

Curriculum Vitae

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Place of Birth:	Los Sarmientos, Tucuman, Argentina
Citizenship:	United States
Marital Status:	Married Sept. 18, 1965 to Dr. Haydee E. Pascual; Five children: Patricia Bazan Garrubbo, JD (1966), Andrea Bazan, MHA, MSW (1967), Nicolas Bazan, III (1969), Hernan Bazan, MD (1972), Maria Bazan Clark (1978)
Education:	
1958	Bachiller Colegio Belgrano, Salta, Argentina
1965	M.D. Medical School, U. Tucumán (Facultad de Medicina, Universidad, Nacional de Tucumán, Argentina)
1971	D. Med. Sci. Medical School, U. Tucuman, Argentina (Ph.D. equivalent) (Thesis research conducted during 1966-68 at Harvard Medical School, Boston, MA)
Teaching-Research Fellowships:	
1960-1965	Departments of Pathology, Pharmacology and Anatomy, Faculty of Medicine, University of Tucuman, Argentina
1962	Fellowship in Institute of Altitude Biology Jujuy, Univ. Tucuman, Argentina
1963	Teaching Assistant, Dept. of Biology, Embryology & Genetics, Faculty of Medicine University of Tucuman, Argentina
1963-1965	Institute of Biology, Faculty of Biochemistry, U. Tucuman
1964	Instituto de Investigaciones Bioquímicas, Fundación Campomar, Buenos Aires, Argentina
1964	Winter International Courses on New Aspects in Biology and "Basis of the Modern Genetics," University of Buenos Aires, Argentina
Postdoctoral Research Training:	
1965-1966	Postdoctoral Research Fellow, Department of Physical Medicine and Rehabilitation, College of Physicians and Surgeons, Columbia University, New York, NY
1966-1968	Postdoctoral Research Fellow, Massachusetts Mental Health Center, Department of Biological Chemistry, Harvard Medical School, Boston, MA
Academic Appointments:	
1968-1970	Assistant Professor, Department Biochemistry, Faculty of Medicine, University of Toronto, Canada
	Assistant Director, Department Neurochemistry, Clarke Institute of Psychiatry, Toronto, Canada
1970-1971	Consejo Superior (Deans Council), University of the South, Bahia Blanca, Argentina
1970-1973	Director (Founder), Department of Biology, University of the South, Bahía Blanca, Argentina
1970-1981	Professor and Chair of Biological Chemistry, University of the South, Bahia Blanca, Argentina
1970-1981	Director (Founder), Instituto of Biochemical Investigations, Universidad Nacional del Sur-Consejo Nacional de Investigaciones Cientificas y Técnicas, Bahía Blanca, Argentina
1977	Visiting Professor, Department Ophthalmology, Baylor College of Medicine, Houston, TX
1981-	Professor of Ophthalmology, Biochemistry and Molecular Biology and Neurology, LSU Medical Center School of Medicine, New Orleans, LA
1984-	The Ernest C. and Yvette C. Villere Chair for Research in Retinal Degeneration Eye, Ear, Nose and Throat Hospital, New Orleans, LA
1988-	Director (Founder), Neuroscience Center of Excellence, LSU Medical Center School of Medicine, New Orleans, LA
1994-	Boyd Professor, LSU Medical Center, New Orleans, LA (the highest academic title in the Louisiana State University system)

Community Awards in New Orleans:

- 1994 Role Model Awardee, Young Leadership Council of New Orleans
2002 CityBusiness 2002 Innovator of the Year Award, New Orleans, LA
2002 The Alzheimer's' Association Greater New Orleans Chapter Award, New Orleans, LA
2003 Career Service Award, 20 years, LSU Health Sciences Center, New Orleans, LA
2003 Family Services of Greater New Orleans (Ten Outstanding Persons) Award, New Orleans, LA
2008 New Orleans CityBusiness Health Care Heroes Award
2010 Junior Achievement Business Hall of Fame, New Orleans, LA
2011 Excelencia Award for Medical Research and Business, Hispanic Chamber of Commerce of Louisiana, New Orleans, LA

Editorial Boards:

- 1981-1989 Journal of Neurochemistry
1983-1988 Neurochemical Pathology
1986-1993 Neurochemical Research
1988-1993 Journal of Lipid Mediators
1988-1996 Journal Cerebral Blood Flow & Metabolism
1994-1997 Journal of Lipid Mediators & Cell Activation
1985- Journal of Neuroscience Research
1987- Molecular Neurobiology (Editor-in-Chief and Founder, Impact factor 6.190)
1988-1998 Molecular and Chemical Neuropathology
1989-1990 Journal of Molecular Neuroscience
1990-2001 Journal of Nutritional Biochemistry
1993-1999 Journal of Clinical Neuroscience
1996-2016 Neurochemical Research (Associate Editor)
1996-1998 Receptors and Signal Transduction
1997-2002 Journal of Biological Chemistry
2003- Cellular and Molecular Neurobiology
2004-2016 Current Neurovascular Research
2005-2016 Recent Patent Reviews on CNS Drug Discovery
2005- Handbook of Neurochemistry and Molecular Neurobiology, 3rd Edition
At Large Editor – Nicolas G. Bazan
2007- Cell Death & Differentiation (Nature Journal)
2010- Metabolic Brain Disease
2010- Cell Death & Disease (Nature journal)
2014-2016 Neurology

Chairmanships and Organizer of Scientific Events/Program Committees:

- 1975 Chair, Round-Table on Neurochemistry of Sensory Systems: Retina International Meeting of the International Society for Neurochemistry, Barcelona, Spain
1975 Co-chair and Organizer, International Symposium on Function and Biosynthesis of Lipids, Sierra de La Ventana, Argentina
1976 Chair and Organizer, Annual Meeting of the Argentine Biochemical Society, Sierra de La Ventana, Argentina
1977 & 1980 Co-Organizer, "Nutrition and Atherosclerosis," Tucuman, Argentina
1978 Chaired and Organized, Annual Meeting of the Argentine Biophysical Society, Pehuen-Co, Argentina
1977-1979 Program Committee, 7th International Meeting International Society for Neurochemistry, Jerusalem
1973- Chair and Organizer, Symposia and Workshops in the Neurosciences in Jerusalem,

	Mexico, Birmingham, Tokyo, Taipei, Nijmegen, Vancouver, Hot Springs, Alicante, Baltimore, Montreal
1979	Co-Chair and Organizer, International Symposium on Neurochemistry of the Retina, Athens, Greece
1980	Co-Chair and Organizer, International Symposium on Nutrition, Lipid Research and Cardiovascular Diseases, Bahia Blanca, Argentina
1982	Co-Chaired and Organizer, Symposium on Retina Neurochemistry, 5th International Congress of Eye Research, Netherlands
1985	Co-Organizer, of International Symposium on Phospholipids in the Nervous System: Biochemical and Molecular Pharmacology, Satellite meeting of the International Society for Neurochemistry, Mantova, Italy
1985-1986	Program Committee, 17th Annual Meeting American Society of Neurochemistry, Baltimore, MD
1986	Chair and Organizer, ASN Symposium Formation and Functions of Eicosanoids in the Central Nervous System, Montreal, Quebec
1986	Co-Chair and Organizer, International Symposium on Prostaglandins and Related Compounds in Ophthalmology, Tokyo, Japan
1986-1987	Chair, Neuroscience Steering Committee of LSU Medical School
1987	Chair and Organizer, Phospholipid in the Nervous System: Biochemical and Molecular Pathology, Satellite Symposium of ISN-ASN Joint Meeting, Puerto La Cruz, Venezuela
1987	Co-Organizer, Satellite of 17th Annual Society for Neuroscience Meeting, The Role of Nutrition in the Development, Differentiation and Function of the Central Nervous System, New Orleans, LA
1987-1989	Member, Program Committee, 20th Annual Meeting, American Society for Neurochemistry, Chicago, IL
1988	Chair, Local Organizing Committee, 19th Annual Meeting American Society for Neurochemistry, New Orleans, LA
1988	Co-Organizer and Co-chair, The New York Academy of Sciences Conference on Arachidonic Acid Metabolism in the Nervous System: Physiological and Pathological Significance, Bethesda, MD
1987-1989	President, Pan American Association for Research in Ophthalmology
1990	Organizer, Minisymposium, American Soc. for Neurochemistry, Phoenix, AZ
1990	Co-Organizer, Satellite Meeting of the 9th ISER on The Ocular Functions of Eicosanoids and Other Lipids Mediators, Haikko, Finland
1991	Chair, Sendai Forum 91, International Workshop on Molecular Mechanisms of Ischemic Brain Damage, Okinawa, Japan
1991	Chair, Session, Receptor and Second Messengers, American Society for Neurochemistry, Charleston, SC
1991	Co-Organizer, Meeting of Eicosanoid Group, The Role of Eicosanoids in the Modulation of the Intraocular Pressure and in Other Ocular Functions, Longboat Key, FL
1991	Co-Organizer, Joint Meeting of American Uveitis Society and Eicosanoid Group, Interplay between Eicosanoids, Other Lipid Mediators and Cytokines in the Eye, Longboat Key, FL
1991	Co-Organizer, Satellite Meeting of the 13th International Society for Neurochemistry, "Neurobiology of Essential Fatty Acids," Cairns, Australia
1991	Co-Organizer, International Symposium of the 13th International Society for Neurochemistry, Molecular Events in Neurotransmissions, Sydney, Australia
1991	Co-Organizer, Satellite Meeting of the Society for Neuroscience, "Immediate Early Genes of the Nervous System: Physiological Role and Pathological Significance," New Orleans, LA
1991	Co-Organizer and Co-chair, Symposium on "Lipid Mediators in Synaptic Transmission

	and Signal Transduction of Neuronal Cells: Physiological and Pathological Implications," Society for Neuroscience, New Orleans, LA
1990-1992	Program Committee, American Society for Neurochemistry, Houston, Texas
1991-1993	Program Committee, International Society for Neurochemistry, Montpellier, France
1991-1993	Council Member, International Society for Pathophysiology
1992	International Advisory Committee, International Symposium on Retinal Degeneration, Costa Smeralda, Sardinia
1992	Co-Organizer, Ocular Cell and Molecular Biology Conference, Dallas, TX
1993	Advisory Board, ISN Satellite Meeting, 6th International Symposium, New Frontiers in the Biochemistry and Biophysics on Diagnosis and Treatment of Stroke, Neurotrauma and Other Neurological Diseases, Martin, Slovak Republic
1993	Program Committee, International Society for Neurochemistry, 14th ISN Biennial Meeting, Montpelier, France
1993	Advisory Board, Neurotrauma Society, 11th Neurotrauma Symposium, Washington, DC
1994	Organizer and Chair, Leon Wolfe Symposium, Lipids in the Central Nervous System: From Structure to Signal Transduction, New Orleans, LA
1994	International Advisory Board, 9th International Conference on Prostaglandins and Related Compounds, Florence, Italy
1994	Advisory Board, International Symposium on Pharmacology of Cerebral Ischemia, Marburg, Germany
1995	Chair, Program Committee, Association for Ocular Pharmacology and Therapeutics, New Orleans, LA
1995	Co-Chair, ASN Satellite Symposium, Neural and Glial Injury: Signal Transduction and Neuroprotection, Santa Monica, CA
1995	Co-Chair, ASN Symposium on Physiological Significance and Pathophysiological Role of PAF in Nervous System, Santa Monica, CA
1995	Chair Session, on Growth Regulation and Apoptosis/Calcium Transport and Regulatory Proteins at Neurodegenerative Diseases: Molecular and Cellular Mechanisms and Therapeutic Advances, XV Washington Spring International Symposium in Washington, DC
1995	Co-Chair Session, on Free Radical Pathophysiology in the Brain Disease at the 7th International Symposium on New Frontiers in the Biochemistry and Biophysics on Diagnosis and Treatment of Stroke, Neurotrauma and Other Neurological Disorders, Kurashiki, Japan
1996	Organizer, International Symposium, Fundamental Issues in Stroke and Epilepsy: Excitotoxicity, Cell Signaling and Neuroprotection, New Orleans, LA
1996	Co-Chair, American Society for Neurochemistry Symposium, Epileptogenesis and Neural Plasticity, Philadelphia, PA
1996	Co-Chair, International Symposium, New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA
1996	Program Committee Co-Chair, Second Annual Association for Ocular Pharmacology and Therapeutics, Los Angeles, CA
1996	Chair, Session on "Animal Models of Diabetic Nephropathy and/or Mechanistic Approaches, at Diabetic Nephropathy: Secondary Phenomenon or Disease Entity," Baden, Austria
1996	Chair, Session at the ICP'96 - 10th International Conference on Prostaglandins and Related Compounds, Vienna, Austria
1997	Co-Moderator, Photooxidative Damage and Protective Mechanisms in Retina Session, Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL
1997	Chair and Organizer, 8th International Symposium on Stroke, Neurotrauma, and Other Neurological Diseases, Satellite of the Joint Meeting of the 16th Biennial Meeting of the

	International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, New Orleans, LA
1997	Chair and Organizer, Lipid Messengers in the Nervous System, Satellite of the Joint Meeting of the 16th Biennial Meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, New Orleans, LA
1997	Co-organizer, on "Matrix Metalloproteinases and the Central Nervous System," New Orleans, LA
1998	Co-organizer, Asthma: Clinical and Research Perspectives meeting, New Orleans, LA
1998	Chair, 8th International Congress on "Platelet-Activating Factor and Related Lipid Mediators," New Orleans, LA
1999	Chair, Organizer and President, Thirtieth Annual American Society for Neurochemistry Meeting, New Orleans, LA
1999	Organizer and Chair, Fourth International Workshop on Maturation Phenomenon in Cerebral Ischemia-Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction, New Orleans, LA
2000	Co-Chair, Session, XIV International Congress of Eye Research, Santé Fe, NM
2002-2004	President, Pan-American Association for Research in Ophthalmology
2004	Co-Organizers, Retinal Cell Biology Session on Oxidative Damage and Signal Transduction in the Retina, XVI International Congress for Eye Research (ICER), Sydney, Australia
2004	Co-Chair, Research Committee of the Pan-American Association of Ophthalmology
2006	Co-Chair, Session, XII International Symposium on Retinal Degeneration, October 23-28, 2006, San Carlos de Bariloche, Argentina
2006	Co-Organizer, XII International Symposium on Retinal Degeneration, October 23-28, 2006, San Carlos de Bariloche, Argentina
2007	Member Scientific Committee, 3 rd International Conference on Phospholipases A ₂ and Lipid Mediators, May 9-12, 2007, Sorrento (Naples), Italy.
2007	Co-Chair, ARVO Ocular Cell and Molecular Biology, September 6-8, 2007, Sarasota, Florida
2008	Co-Chair, Session on Stroke Research-From Past to Future Perspectives, 5 th International Symposium on Neuroprotection and Neurorepair, Cerebral Ischemia and Stroke, May 17-20, 2008, Magdeburg, Germany
2008	Member of International Advisory Committee, XIII International Symposium on Retinal Degeneration, September 18-23, 2008, Emeishan, Sichuan, China
2009	Invited Keynote Lecturer at the British Pharmacological Society Meeting, July 8-10, 2009, Edinburgh, UK
2009	Co-Chair, Session on Current Opinions in Cell Death Signaling at Satellite Meeting on Cell Death, July 10-11, 2009, Edinburgh, UK
2009	Co-Chair, Session on Oxidative Stress-mediated Signaling in Neurodegeneration Diseases, 22 nd Biennial Meeting of the ISN/APSN, August 23-28, 2009, BEXCO, Busan, Korea
2010	Co-Chair
2011	Faculty, Neuroscience School of Advanced Studies, Neurodegeneration and Molecular Neuropathology. San Quirico d'Orcia, Siena, Italy - June 13-25
2012	Coordinator, Neuroscience School of Advanced Studies, Neuroinflammation. San Quirico d'Orcia, Siena, Italy - June 13-25
2013	Coordinator (with S. Tonegawa, A.Silva) Neuroscience School of Advanced Studies, Cellular and Systems Mechanism of Learning and Memory, Convento di Sant' Agostino, Cortona, Italy: July 20-28
2011-14	Chairman, Board of Governors, ARVO Foundation,
2014	Coordinator, Neuroscience School of Advanced Studies, Neuroinflammation: Molecular Principles and Translational Approach, Bressanone, Italian Alps - August 23-30

2014	Plenary Lecture, 5th International Congress on Stem Cells and Tissue Formation, Dresden, Germany – July 8-11
2014	Invited Speaker, Nobel Forum, Lipid Mediators in Health and Disease: A Tribute to Bengt Samuelsson at Karolinska Institut, Stockholm, Sweden – August 27-29
2014	Keynote Opening Lecture, German Center for Neurodegenerative Diseases (DZNE), Scientific Retreat, Schorfheide, Germany – September 24-26
2015	Neuroscience School of Advanced Studies, Learning and Memory: Cellular and Systems Mechanisms, S. Tonegawa, A.Silva and N. Bazan (Coordinators), Florence, Italy - May 23-30 http://www.nsas.it/learning-and-memory-cellular-and-system-mechanisms
2015	Chair Nanosymposium: Neuroprotection: In Vivo Studies.
2015	Neuroscience 2015: Society for Neuroscience Annual Meeting, Chicago, IL - October 20
2015	Opening Keynote Lecture, “The significance of a novel molecular switch for the DHA lipidome in cell function and disease” The 12th Fatty Acids in Cell Signaling Conference: From Genes to Human Physiology, Toronto, Canada - October 25-27
2015	The Pan-American Association for Biochemistry and Molecular Biology Plenary Lecturer, 56th Int. Conf. Bioscience of Lipids, 9-21-25,Iguazu, Argentina
2016	Conference Chair and Organizer, Lipid Mediators in Health and Disease II: From the Cutting Edge and 7th International Conference on Phospholipase A2 and Lipid Mediators: From Bench to Translational Medicine, La Jolla, CA – May 19-20.
2016	Faculty, Venusberg Neuroinflammation School, Conil de la Frontera, Spain, Oct 11-16th
2017	Faculty, Venusberg Meeting, Bonn, Germany, May 11-14, 2017
2017	Neuroscience School of Advanced Studies, Learning and Memory: Cellular and Systems Mechanisms, S. Tonegawa, A.Silva and N. Bazan (Coordinators), Cortona, Italy - May 27-June 3
2017	Invited Editor of Mini-review thematic series of Journal of Biological Chemistry on “Molecular Principles of the Inflammatory Response Governed by Gene Transcriptional Control”

Federal Advisory Committees, U.S. Public Health Service, National Institute of Health:

- Member, Task Force for Developmental Neurobiology, National Institute of Child Health and Human Development, 1983-1984.
- Member, Special Review Committee, National Institute of Neurological and Communicative Diseases and Stroke (NIH), January 1985.
- Ad hoc member, Basic Psychopharmacology Research Neurosciences, Review Committee, National Institute of Mental Health, June 1985.
- Reviewer, Research Scientist Development Review Committee, National Institute of Mental Health, 1985.
- Reviewer, Visual Sciences Study Section, Special Review Committee, National Institute of Neurological and Communicative Diseases and Stroke (NIH), 1986
- Reviewer, National Science Foundation, Veterans Administration Hospital, 1986.
- Special Review Committee, January 1986.
- Special Reviewer, VISA 1 Study Section, January 1986.
- Member, Special Review Committee, National Institute of Neurological and Communicative Diseases and Stroke (NIH), February 1986.
- Special Review Committee, October 1986.
- Ad hoc Member, NIH Neurology B Study Section, Division of Research Grants, February 1988.
- NIH Behavioral and Neurosciences Study Section, Division of Research Grants, 1988-1992.
- Review Committee Member, NIH Basic Research Science Grant (BRSG), LSU Medical Center School of Medicine, New Orleans, July 1989-1991.
- Special Review Committee, Neuronal Ceroid Lipofuscinoses (Batten Disease), 1991.

- Reviewer, NIH, NIAAA Board of Scientific Counselors and Ad Hoc Reviewers of the Laboratory of Membrane Biochemistry and Biophysics (LMBB), Washington, DC, 2001
- Review Committee, National Eye Institute, National Institutes of Health, Lutin/DHA Advisory Group, 2004
- Review Committee member, National Institutes on Drug Abuse (NIDA), Targeted Lipidomics: Signaling Lipids and Drugs of Abuse, 2004
- Reviewer, MU-AD-PPG, NIH Study section, St. Louis, MO, 2004
- Review Committee member, Brain Uptake and Utilization of Fatty Acids, Lipids and Lipoproteins, Bethesda, MD, 2004
- Chair, NIH Study Section, Review Committee, Bethesda, Maryland, 2006
- Reviewer, Biology and Diseases of the Posterior Eye Study, 2006 Section, (formerly Visual Sciences C Study Section) Center for Scientific Review, NIH, Bethesda, MD, 2006
- Reviewer, Biophysics of Neural Systems (BPNS), Center for Scientific Review, National Institutes of Health, Bethesda, MD, 2006
- Reviewer, National Institute of General Medical Sciences, NIH, Bethesda, MD, 2007
- Reviewer, Special Emphasis Panel/Scientific Review Group 2007/05 ZRG1, MDCN-B, Mitochondrial and Cerebral Ischemia, Center for Scientific Review, NIH, Bethesda, MD, 2007
- Reviewer, U.S. Army Medical Research and Material Command (USAMRMC), American Institute of Biological Sciences, Scientific Peer Advisory and Review Services, Reston, VA, 2007
- Reviewer, Alzheimer's Association Grant Reviews, Chicago, IL, 2007
- Reviewer, Molecular and Integrative Signal Transduction (MIST) Study Section, Bethesda, MD, 2008
- Member, Institutional Clinical Translational Science Award (CTSA) Center Special Emphasis Panel review panel, National Center for Research Resources, February 19-20, 2008
- Reviewer, NIH Study Section, Biophysical and Physiological Neuroscience ZRG1 F03B (20), Washington, DC, June 18-19, 2009
- Reviewer, Center for Scientific Review, Special Emphasis Panel, Challenge Grant review ZRG1-CB-N 58, July 20-21, 2009.
- Reviewer, S10 Shared Instrumentation and Microscopy Review, Center for Scientific Review, NIH, November 12-13, 2009, Chicago, IL
- Reviewer, Brain Disorders and Clinical Neuroscience Integrated Review Group, Clinical Neuroplasticity and Neurotransmitters Study Section (CNNT), San Francisco, CA, February 11-12, 2010. Washington, DC
- Reviewer, Biology and Disease of the Posterior Eye Study Section, Center for Scientific Review, NIH, July 1, 2010, Bethesda, MD
- Reviewer, NIH Workshop "Clarifying Directions and Approaches to Mechanistic and Translational Research on Omega-3 Fatty Acids and their Metabolites", February 14-15, 2011, Bethesda, MD.
- Reviewer, Biology and Disease of the Posterior Eye Study Section, Center for Scientific Review, NIH, February 22-23, 2011, Bethesda, MD
- Reviewer, Biology and Disease of the Posterior Eye Study Section, Center for Scientific Review, NIH, June 20-21, 2011, Chicago, IL
- Reviewer, NIH, Biology and Disease of the Posterior Eye Study Section, October 24-25, 2011, Bethesda, MD
- Reviewer, Special Emphasis Panel, NEI Translational Research on Therapy for Visual Disorders (R24), Washington, DC, 2011
- Reviewer, Biology of the Visual System Study Section, Center for Scientific Review, NIH, February 13-14, 2012, Bethesda, MD.
- Reviewer, American Heart Association, Brain 4 Peer Review Committee, Teleconference meeting, April 2, 2012.
- Reviewer, NIH, Biology and Disease of the Posterior Eye Study Section, June 4-5, 2012, San Francisco, CA
- Reviewer, NIH, Biology and Disease of the Posterior Eye Study Section, June 10-11, 2013, San Francisco, CA
- Reviewer, American Heart Association Peer Review, Teleconference meeting, October 23, 2013
- Reviewer and Member, Biology of the Visual System Study Section, NIH, Washington, DC, Teleconference call, December 5-6, 2013.
- Reviewer, Biology of the Visual System Study Section, NIH, Bethesda, MD, February 13-14, 2014.
- Reviewer, Biology of the Visual System Study Section, NIH, San Francisco, CA, June 19-20, 2014

- Reviewer, American Heart Association, IRG Vascular Science (Brain), BSc1 Conference Call, October 20, 2014
- Reviewer, Botanical Dietary Supplement Research Center (BDSRC) (p50), Washington, DC, December 17-18, 2014
- Reviewer, NINDS Study Section, NIH, Washington, DC, June 17, 2015
- Reviewer, NEI Translational Research Program on Therapy for Visual Disorder Study Section, Bethesda, MD, July 31, 2015
- Peer Review Panel Member, 2016 Clinical and Rehabilitative Medicine Research, Intramural Research, U.S. Army Medical Research and Material Command's office of Congressionally Directed Medical Research Programs and SRA International Inc., November 11, 2015 – December 31, 2017
- Reviewer, Videoconference NIH CSR Special Emphasis Panel (SEP) “Fellowship: Cell Biology, Developmental Biology and Bioengineering (FOS-U), February 23-24, 2016
- Reviewer, Clinical and Rehabilitative Medicine Research, Intramural Research, U.S. Army Medical Research and Material Command's office of Congressionally Directed Medical Research Programs and SRA International Inc., April 11, 2016
- Reviewer, ZNS1 SRB-L 07, Centers without Walls for Collaborative Research in the Epilepsies, Special Emphasis Panel, NIH, NINDS, June 28-29, 2016
- Reviewer, NEI Translational Research (R24) and Patient-Oriented Mentoring Training (K23), August 4, 2016
- Reviewer, NIH Special Emphasis Panel, “Synapses, Cytoskeleton & Trafficking (SYN) Scientific Review Group”, November 30, 2016
- Reviewer, NEI Special Emphasis Panel ZEY1 VSN (3) NEI Translational Research Program to Develop Novel Therapies and Devices for the Treatment of Visual System Disorders (R24A), July 25-26, 2017

Other Advisory Committees:

1988-1989	Glaxo Inc., Cardiovascular Discovery Grant Advisory Board
1988-1990	Fundamental Research Related to Multiple Sclerosis, National Multiple Sclerosis Society, New York, NY
1988-1990	Chairman, Task Force on Research as an Economic Force for the Future, LSU Medical Center School of Medicine, New Orleans, LA
1988-1991	Boyd Professorship Review Committee, LSU Systems, Baton Rouge, LA
1990-	Administrative Council, LSU Health Sciences Center New Orleans, LA
1990-	Scientific Adv. Board Member, Fondazione Giovanni Lorenzini, Houston, TX
1992	International Advisory Board, International Conference on Prostaglandins and Related Compounds, Montreal, Quebec, Canada
1992	Chairman, SACS Accreditation Committee on Externally Funded Grants and Contracts, LSU School of Medicine, New Orleans, LA
1994	Board Member, William Harvey Medical Research Foundation
1995-1998	President and Trustee, William Harvey Medical Research Foundation
1996	Search Committee Member, Endowed Chair in Parkinson Disease, LSU School of Medicine, New Orleans, LA
1998-	Member, Scientific Board of Visitors, Oklahoma Medical Research Foundation, Oklahoma City, OK
1998-	Board Member, William Harvey Medical Research Foundation
1998-	Member, Fondazione Giovanni Lorenzini, Houston, TX
1998-	Member, Southern Dominican Province New Orleans Advisory Board
1998-1999	Advisory Board Member, Interdisciplinary Development for Celecoxib in Alzheimer's disease, Chicago, IL
1999	Advisory Board member, G.D. Searle & Co. Celecoxib-Alzheimer's Disease Development, Irving, TX
1999-2003	Advisory Board Member, Book Series “Nutrition, Brain and Behavior”
2000	Peer Reviewer, American Heart Association, Brain Res. Group, Dallas, TX
2000	Consultant, Merck 2000 Management of Acute Pain and Arthritis, Dallas, TX

2000	Peer Reviewer, Spinal Cord Injury Research Board, Sarasota Springs, NY
2000-	Board Member, University of New Orleans Research and Technology Foundation, New Orleans, LA
2001-2014	Member, Board of Directors, Atrix Laboratories, Inc., Denver, CO
2001- 2014	Member, Board of Directors, The Lighthouse for the Blind in New Orleans, Inc, New Orleans, LA
2001	Member, Department of Economic Development Screening Committee, Baton Rouge, LA
2001	Peer Review, American Heart Association Affiliate Brain/Stroke Study Group, Dallas, TX
2002-2006	Chair, Research Council, LSU Health Sciences Center, New Orleans, LA
2003-	Member, Business Advisory Group for the Proof of Concept Fund, MetroVision, Louisiana Technology Council
2004-	Member, External Board meeting for MU-AD-PG, St. Louis, MO
2005	Pharmacology Department Head Search Committee, LSU Health Sciences Center, New Orleans, LA
2006-2009	Chairperson, Executive Research Council, New Orleans, LA
2007-2016	COBRE EAC (External Advisory Committee) member, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma
2007	Pharmacology Chair Search Committee, New Orleans, LA
2007	Dean of the School of Medicine Search Committee, New Orleans, LA
2007	Chair, Neurology Search Committee, New Orleans, LA
2007	Member, International Scientific Committee, 3 rd International Conference on Phospholipases A2 and Lipid Mediators, Sorrento, Italy, May 9-12, 2007
2010-	Member, Board of Governors for Association for Research in Vision and Ophthalmology Foundation
2010-2016	Founding Senate Member, Deutsches Zentrum für Neurodegenerative Erkrankungen (German Centre for Neurodegenerative Diseases) of the Helmholtz Gemeinschaft
2010	Ad Hoc Committee members, Harvard Medical School, Office for Faculty Affairs, Boston, MA
2010-2013	Member, LSU Health Sciences Center, Committee on Community Outreach, New Orleans, LA
2010-2013	Member, LSU Health Sciences Center, Research Space Advisory Committee, New Orleans, LA
2010-2014	Member, NIH, Biology and Diseases of the Posterior Study Section, Center for Scientific Review

Offices and New Programs:

7/70-8/71, 3/75-2/76	Member, Dean Council and member of several committees, Universidad Nacional del Sur Bahia Blanca, Argentina
1970	Organizer and Founder, Inst. of Biochemical Research, and School of Biology (the Natural Sciences), Universidad Nacional del Sur, Bahia Blanca, Argentina
1970	Organized graduate studies curriculum towards Ph.D. and M.S. Sc. in Biochemistry and Biology, Universidad Nacional del Sur, Bahia Blanca, Argentina
1979	Founder and First President, Foundation for the Promotion of Science and Culture, Bahia Blanca, Argentina
October, 1983	Expert, United Nations Educational and Scientific Mission to India (UNESCO-UNDP Project)
1984-1988	Neuroscience Steering Committee, LSUMC, New Orleans, LA
1988	Chairman, Neuroscience Steering Committee, LSUMC, New Orleans, LA
July 1989-1991	Local Review Committee Member, NIH BRSG Award, LSUMC School of Medicine, New Orleans, LA
1990-	Administrative Council, LSUMC School of Medicine, New Orleans, LA

1990	Committee Member, Clinical Sciences Research Building Planning, LSU Medical Center School of Medicine, New Orleans, LA
1991-	Clinical Department Head Committee, LSUMC School of Medicine, New Orleans, LA
1992-	Advisory Committee, Neuroscience Training Program, LSUMC School of Medicine, Neuroscience Center of Excellence, New Orleans, LA
1992-	Executive Committee for the Interdisciplinary Ph.D. Program, LSUMC School of Medicine, Neuroscience Center of Excellence, New Orleans, LA
1996-	Chair, Honorary Host Committee of Brain Awareness Week, LSUMC School of Medicine, Neuroscience Center of Excellence, New Orleans, LA
1996-1997	Committee Member, Endowed Chair in Parkinson Disease, LSUMC School of Medicine, New Orleans, LA
1996-	Committee Member, Faculty Awards and Fellowships, LSU Medical School, New Orleans, LA
1996-2001	Chair, Research Council, LSU Medical School, New Orleans, LA
1999	Committee Member, Search Committee for Director of Excellence in Oral and Craniofacial Biology and Assistant Dean for Research
2003-	Committee Member, Dean's Search Committee, LSU Health Sciences Center School of Medicine, New Orleans, LA
2003-	Chair, Research Committee, LSU Health Sciences Center, New Orleans, LA
2004-	Committee Member, Neurosurgery Chair Search Committee, LSU Health Sciences Center, New Orleans, LA
2005	Committee Member, Louisiana Biotechnology Community: Building on the Foundation, Baton Rouge, LA – Session on Where Do We Go From Here? “Proof of Principle: It can be done in Louisiana”
2006	Board Member of the Chamber, New Orleans, LA, 2006
2007	Committee Member, Pharmacology Chair Search Committee, LSU Health Sciences Center, New Orleans, LA
2008	Committee Member, Neurology Chair Search Committee, LSU Health Sciences Center, New Orleans, LA
2009	Committee Member, Ophthalmology Chair Search Committee, LSU Health Sciences Center, New Orleans, LA, 2009
2011-14	Chairman Board of Governors, Association for Research in Vision and Ophthalmology (ARVO) Foundation

Research Support:

1969-1971	- Medical Research Council Canada
1970-1981	- National Research Council Argentina (several grants)
1970-1980	- Scientific Research Council, Province of Buenos Aires, Argentina (several grants)
1973-1981	- Science and Technology, Subsecretary Argentina (several grants)
1982-1983, 1985-1986	- Interamerican Bank of Development (\$16,000,000)
1982-1983, 1988-1989	- National Research Council of Argentina Training-Core-Program Project
1982-1983	- Klingenstein Foundation (\$753,000)
1982-1983, 1988-1989	- International Research Scholar and other awards, Research to Prevent Blindness, Inc. (\$440,000)
1982-1983	- The March of Dimes (\$107,000)
1982-1983	- Fight for Sight (\$49,000)
1983-1984	- American Epilepsy Foundation (\$133,000)
1984-1986, 1991-1992	- National Retinitis Pigmentosa Foundation, Inc. (\$290,000)
1984-1986	- American Diabetes Association (\$50,000)
1986-1989, 2007-	- Edward G. Schlieder Educational Foundation (\$99,000)
1986-1991	- IPSEN Beaufour, Paris, France (\$2,600,000)

1989-1994	- GLAXO (1,500,000)
1981-1982	Pilot Project EY04274 Biosynthesis of Phosphatidic Acid in the Retina (\$15,000)
1982-1986	EY04428 Role of Lipids in Retinal Degenerative Disease (\$587,516)
1984-1987	EY05121 Prostaglandins and Lipoxygenase Metabolites in Retina (\$432,911)
1986-1996	NS23002 Role of Phospholipids and Arachidonic Acid in Epilepsy (\$1,602,887) Jacob Javits Investigatorship Award from National Institutes of Neurological Diseases and Stroke
1987-1992	EY04428 Docosahexaenoic Acid Metabolism in Retina (\$697,537)
1987-1992	EY05121 Leukotrienes and Prostaglandins in Photoreceptor Renewal (\$676,552)
1992-1996	EY05121 Leukotrienes and Messengers in Photoreceptor Renewal (\$608,000)
1994-1998	- DAMD17-93-V-3013 Program Project (Medical Research and Development Command Cooperative Agreement) (\$13,800,000) Neural Responses to Injury: Prevention, Protection and Repair Role of Growth Factors and Cell Signaling in the Response of Brain and Retina to Injury Neurochemical Protection of the Brain: Neural Plasticity and Repair
1995-1998	- Institute de Recherches Internationales Servier, France (\$1,120,000) Pathophysiology of Diabetic Retinopathy: Identification of New Targets of Potential Treatment
1996-2001	NS23002 Role of Phospholipids and Arachidonic Acid in Epilepsy (\$966,041)
1996-2001	EY05121 RPE Messengers, Transcription and Photoreceptor Renewal (\$638,290)
1998	- Eye, Ear, Nose and Throat Foundation (\$750,000)
1998	- Daughters of Charity (\$750,000)
1999-2003	- Department of Transportation for the Automotive Highway Safety Initiative (\$878,600)
2000-2001	- Space and Naval Warfare Systems Command (\$598,517) “Is Hippocampal Long-Term Potentiation Modified after Sleep Deprivation in Rats?”
2001-2003	- Novartis (\$338,000) “Cell Signaling and Pharmacology in the Eye”
2001-2004	- NSF/EPSCoR/Board of Regents (\$2,775,000) “Micro/Nano Technologies: Neural Signaling Research”
2002-2004	- Defense Advanced Research Projects Agency (DARPA) (\$10,630,000 Phase I, 2.3M begins April 1, 2002) “Identification of Synaptic Signaling Events and Behavioral Correlates in Sleep Deprivation: Development of Novel Pharmacologic Agents”
2002-2008	NS23002 Role of Phospholipids and Arachidonic Acid in Epilepsy (\$1,079,675)
2003	- Neurobiotechnology Program in Louisiana (\$833,000)
2003-2008	- Bio-Magnetics Interfacing Concepts: A Microfluidic System using Magnetic Nanoparticles for Quantitative Detection of Biological Species (\$494,500/year=\$2,472,500)
2004-2010	R01 NS046741, NIH, National Institute of Neurological Disorders and Stroke, Neuroprotection: Lipid Signaling in Ischemia-Reperfusion (\$225,816)
2010-2015	R01 NS046741, NIH, National Institute of Neurological Disorders and Stroke, Neuroprotection: Lipid Signaling in Ischemia-Reperfusion (\$225,816)
2010-2015	R01 NS046741, NIH, National Institute of Neurological Disorders and Stroke Neuroprotection: Lipid Signaling in Ischemia-Reperfusion (\$1,553,125)
2009-2011	1RC2AT005909-01 NIH, NCCAM (Bazan NG, Serhan C, Petasis N) (\$1,418,175.00) - “Mechanism of Action of Omega-3 fatty Acids in Brain Injury”
2001-2004	EY05121 RPE Messengers, Transcription and Photoreceptor Renewal (\$1,001,000)
2005-2010	EY05121 RPE Messengers, Transcription and Photoreceptor Renewal (\$244,125)
2009-2011	EY05121 RPE Messengers, Transcription and Photoreceptor Renewal Supplement (S1) – (\$337,824)

2002-2007	- R21COBRE, NIH (\$9,800,000) “Mentoring Neuroscience in Louisiana”
2007-2012	- P20RR16816 COBRE, NIH (\$1,662,639) “Mentoring Neuroscience in Louisiana: A Biomedical Program to Enhance Neuroscience”
2009-2010	- CoBRE Supplement (S1), NIH (\$147,840) “Mentoring Neuroscience in Louisiana”
2004-2007	- American Health Assistance Foundation (AHAF), Macular Degeneration Research (\$300,000), “Signaling in RPE Cell Survival”
2010-2012	- American Health Assistance Foundation (AHAF), Macular Degeneration Research (\$100,000), “NPD1 Promotes Survival Signaling in the Ccl2-/-/Cx3cr1-/- mouse AMD Model”
2009-2010	- Foundation Fighting Blindness (Bronya Keats, PhD: Former PI) (\$110,000)
2009-2012	- TA-NP-0808-0463-LSUNO, Foundation Fighting Blindness (\$89,964), “Neuroprotectin D1 slows photoreceptor degeneration”
2010-2012	- Beckman Initiative for Macular Research; The Arnold and Mabel Beckman Foundation, Doheny Eye Institute 1101 (\$100,000), “Neuroprotective Bioactivity of Neuroprotectin-D1 with Nanoparticle-enhanced Delivery in Experimental Retinal Degeneration”
2012-2017	- P30GM103340 COBRE, NIH (\$1,031,174) “Mentoring Neuroscience in Louisiana: A Biomedical Program to Enhance Neuroscience”

Graduate Students, Postdoctoral Fellows, Research Fellows/Current Apointments:

- S.A. Morelli de Liberti
- M.S.D.F. de Escalante
- A. Gauna de Rositano
- Victor Marcheselli, Former Research Assistant Professor, Department of Ophthalmology, LSU Eye Center, New Orleans, LA
- Maria Pediconi, Assistant Professor of Biological Chemistry, University of South, Bahia Blanca, Argentina
- Monica Ilincheta de Boschero, Assistant Professor of Biological Chemistry, University of South, Bahia Blanca, Argentina
- Idi Bonini, Assistant Professor of Biological Chemistry, University of South, Bahia Blanca, Argentina
- Dale L. Birkle, Associate Professor of Pharmacology and Toxicology, West Virginia University
- Burton Scott, Assistant Professor, Neurology, Duke University, NC
- Geoffrey Allan, Post-doctoral Fellow, Department of Ophthalmology, LSU Medical Center, New Orleans, LA
- Rex Martin, Assistant Professor of Anatomical Sciences, University Oklahoma Health Science Center, OK
- Z.E.G. Oliveira
- R. Alcalde
- Hugo Caldironi
- Marta Matzkin de Rosujovsky
- Graciela Cascone
- Maria M. Careaga
- Carlos A. Barassi, Professor and Head of Biological Chemistry, University of Mar del Plata, Argentina
- Enrique Politi, Post-doctoral fellow, Harvard Medical School
- Marcos Crupkin, Professor of Biological Chemistry, University of Mar del Plata, Argentina
- Magdalena Rossowska, Assistant Professor, Physiology, LSU School of Dentistry, New Orleans, LA
- Marisa Abreu, Professor of Ophthalmology, University of Sao Paulo, Brazil
- Wilson Tang
- T. Sanjeeva Reddy, LSU Medical School, New Orleans, LA
- Lucio Van Rooijen, Bayer AG, Head of Neurochemistry, Tropon, Berkshire, UK
- Michael Limberg
- Feng Cai, Montreal, Canada

- Naigang Lin, Alcon Laboratories, Fort Worth, TX
- Christophe Baudouin, Professor and Chair, Department of Ophthalmology, University of Paris, France
- Francoise Baudouin, Assistant Professor of Ophthalmology, University of Paris, France
- Fernando Santos, M.D., Curitiba, Brazil
- Roberto Cohen, Centro de Enfermedades Oculares, Sante Fe, Argentina
- David Linn, Tulane University Medical Center, New Orleans, LA
- Walter Lukiw, Ph.D., Assistant Professor of Ophthalmology and Neuroscience Center, LSUHSC, New Orleans, LA
- Alexey Ershov, Ph.D., Amersham Pharmacia Biotech, Inc., Piscataway, NJ
- Sebastian Barreiro, M.D., Buenos Aires, Argentina
- Vittorio Colangelo, M.D., Research Fellow, LSUHSC, New Orleans, LA
- Mathieu Soriano, Ph.D. Buenos Aires, Argentina
- Marcos Crupkin, M.S., Professor of Biological Chemistry, University of Mar del Plata, Argentina, 1974
- Marta I. Aveldano, Ph.D., Professor and Head of Biological Chemistry, University of South, Bahia Blanca, Argentina, 1975
- Carlos A. Barassi. Ph.D., Professor and Head of Biological Chemistry, University of Mar del Plata, Argentina, 1975
- Ana M. Pechen, Ph.D., Professor and President of Biological Chemistry, University of Comahue, Neuquen, Argentina, 1975
- Norma M. Giusto, Ph.D., Professor of Biochemical Pathology, University of South, Bahia Blanca, Argentina, 1976
- Haydee E. Pascual, Ph.D., Professor of Ophthalmology, LSU Eye Center, New Orleans, LA
- Elena B. Rodriguez de Turco, Ph.D., Former Associate Professor of Ophthalmology, LSU Eye Center, New Orleans, LA, 1981
- Telma S. Alonso, Ph.D., Associate Professor of Biological Chemistry, University of South, Bahia Blanca, Argentina, 1982
- Robert Vadnal, Chief, Psychiatry Service, Director, Molecular Neuroscience Program, Louisville Veterans Administration Medical Center, Louisville, KY, 1982-1988
- John Doucet, Ph.D., Dear and Professor, Nicholls State University, LA
- Ying Tao, Ph.D., Neurology Resident, Saint Louis University Hospital, St. Louis,
- Mark Stellingworth, M.D., Resident, LSU Medical Center, New Orleans, LA
- Lisa Teather, Ph.D., Assistant Professor, MIT, Boston, MA
- Michael Serou, M.D., Ph.D., Resident LSU Medical School
- Mark Parker, Ph.D Postdoctoral Fellow, Harvard Medical School
- Daoling Zhang, MD Resident Ophthalmology, Duke University, NC
- Bin Tu, Postdoctoral Fellow, Duke University, NC
- Mark Parker, Ph.D., Postdoctoral Research Fellow, Harvard Medical School, Boston, MA, 2001
- Peimin Zhu, Postdoctoral Fellow, U Penn, PA
- Miriam Kolko, M.D, PhD. Professor Ophthalmology and Head of Glaucoma Research, University of Copenhagen, Denmark
- Hiroshi Hito, Associte Professor, University of Tokyo, Japan
- Antony Rajee, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School
- Jorgelina Calandria, Ph.D., Researc Assiatant Professor, LSU Health Sciences Center, New Orleans, LA
- Zahra Faghiri, Dept. of Pharmacology, Harvard Medical School
- Aram Asatryan, Ph.D., Post-Doctoral Fellow, LSU Health Sciences Center, Neuroscience Center of Excellence, New Orleans, LA
- Eric Knott, Ph.D., M.S. Public Health; Research Associate, LSU Health Sciences Center, Neuroscience Center of Excellence, New Orleans, LA
- Surjyadipta Bhattacharjee, Ph.D.; Post-Doctoral Researcher, LSU Health Sciences Center, Neuroscience Center of Excellence, New Orleans, LA

Current Ph.D., M.D/Ph.D. Candidates, and M.D./Ph.D. Graduates

- Khanh V. Do (Ph.D. candidate)
- Katelyn Robillard (M.D./Ph.D. candidate)
- Tiffany N. Eady, Senior Neurology Resident, Beth Israel Deaconess Medical Center, Harvard Medical School Teaching Hospital, Children's Hospital (M.D./Ph.D. graduate)
- Tabitha Quebedeaux, Resident, Obstetrics and Gynecology, LSU Health New Orleans, School of Medicine (M.D./Ph.D. graduate)
- David Stark, EyeSTAR Resident UCLA Stein Eye Institute, Department of Ophthalmology, David Geffen School of Medicine at UCLA (M.D./Ph.D. graduate)

Honors and Awards

- Argentine Association for the Advancement of the Sciences, Goytia Prizes, 1968, 1970;
- Award best medicine thesis Univ. Tucuman, Argentina; 1971-72;
- Ten Outstanding Young Persons of Argentina, Junior Chamber Buenos Aires Research to Prevent Blindness, Incorporated, NY, 1976;
- International Research Scholar, 1977;
- William & Mary Greve International Scholar, 1983-84;
- Elected to Council ISN, 1979-83;
- Elected to Council ASN, 1988-90;
- Gold Medal, Fondazione Giovanni Lorenzini, Milan, Italy, 1981;
- Honorary Professor, Universidad de Tucuman, Argentina, 1987-;
- Javits Neuroscience Investigator Award NINDS, NIH, 1989;
- Citation Classic, "Neural Stimulation or Onset of Cerebral Ischemia Activates Phospholipase A2" Current Contents/Life Sciences, 30:10, July 29, 1991;
- Elected Member, Academy of Medical Sciences, Cordoba, Argentina, 1991-;
- Merck Lecture in Pharmacology, McGill University, Canada, 1992;
- Elected Member, Royal Academy of Sciences, Spain, 1993;
- Boyd University Professor, Louisiana State University; 1994;
- 11th William Harvey Lecture, London, 1994;
- Role Model Awardee, Young Leadership Council of New Orleans, 1994;
- Caputto Gold Medal, Argentine Neurochemical Society, 1994;
- Elected Member, Dana Alliance for Brain Initiative, 1995;
- Elected Member, Royal Academy of Medicine, Spain, 1996;
- Welcome Professorship and Lecture (Burroughs Welcome Fund/FASEB)At University of North Carolina, 1996;
- Merit Award, Distinguished Argentine Abroad, National Research Council of Argentina, Presented by the President of Argentina, 1996;
- Annual John Dorsey Lecture, Wayne State University, Detroit, Michigan, 1996;
- Guest of Honor, Inaugural Symposium, Frontiers in Neuroscience, Wallenberg Neuroscience Center, Lund University, Sweden, 1996;
- President elect, President (1999-2001), American Society for Neurochemistry, 1997-2001;
- Distinguished Lecturer in Neuroscience, Oklahoma Neuroscience Center, Oklahoma University Medical Center, Oklahoma City, OK, 1997;
- William H. Bell Lectureship, Oklahoma Medical Research Foundation, Oklahoma City, OK, 1997;
- Robert Schwab Lecturer, 13th Ann. American Academy of Clinical Neurophysiology, 1998;
- Mayerson-Di Luzio Lecture, Tulane University School of Medicine, Dept. Physiology, 1998;
- Loris & David Rich Lecture in Visual Science, University of Alabama, Birmingham, AL, 1999;
- President, American Society for Neurochemistry, 1999-2001;
- Elected Fellow, Medical Society of Ireland, The Royal College of Physicians Of Ireland, Dublin Doctor Honoris Causa, Universidad Nacional del Tucuman, Argentina, 1999;

- Endre A. Balazs Prize, International Society of Eye Research, 2000;
- Neurochemical Research journal issue dedicated to Nicolas Bazan, Vol. 25, No. 5, <http://www.wkap.nl/journalhome.htm/0364-3190>, 2000;
- President, American Society for Neurochemistry, 1999-2001;
- Citybusiness 2002 Innovator of the Year Award New Orleans, LA, 2002;
- The Alzheimer's Association Greater New Orleans Chapter Award, NOLA, 2002;
- Career Service Awards, 20 years, LSUHSC, NOLA, 2003;
- Family Services of Greater New Orleans (Ten Outstanding Persons) Award, 2003;
- First Leon Wolfe Lecturer, Montreal Neurol. Inst., Canada, 2004;
- Association for Research in Vision and Ophthalmology, Proctor Medal and Lecture, 2007;
- Advances in Experimental Medicine and Biology, Vol. 613, Recent Advances in Retinal Degeneration book dedicated to Nicolas Bazan, <http://www.springer.com/medicine/ophthalmology/book/978-0-387-74902-0>, 2008;
- Association for Research in Vision and Ophthalmology Silver Fellow, 2009;
- Association for Research in Vision and Ophthalmology Gold Fellow, 2011;
- Chevreul Medal, Paris, France, 2011;
- Alkmeon International Prize, 2011;
- Keynote Speaker and Excellence Award, Annual European Association for Vision and Eye Research (EVER) Meeting, 2013;
- Distinguished Speaker, Pioneers in Neuroscience Lecture Series, University of Buffalo The State of University of New York, Buffalo, NY, 2013;
- Medal, Miroslaw M. Mossakowski, Polish Academy of Sciences, 2013
- The Pan-American Association for Biochemistry and Molecular Biology Plenary Lecturer, 56th Int. Conf. Bioscience of Lipids, Iguazu, Argentina, 2015
- Gradle Medal and Lecture. The Pan-American Association of Ophthalmology/World Ophthalmology Congress, Guadalajara, Mexico, 2016
- Featured on cover of Research Features for article *A marvelous mind*: <http://researchfeatures.com/wp-content/uploads/2016/12/Dr-Nicolas-Bazan-Isuhch-Neuroscience-2.pdf>, 2016
- American Scity of Biochemistry and Molecular Biology; Lipid Corner: Nicolas G. Bazan, LSUHSC School of Medicine, video lecture: <https://www.youtube.com/watch?v=EDc5RW3Mc8s>, 2017

Business/Entrepreneurial Activities

Consulting

- FIDIA, Italy, 1982-1985
- IPSEN-BEAUFOUR, France, 1986-1990
- TEIJIN, Japan, 1985-1986
- EISAI, Japan, 1986-1991
- MONSANTO, U.S.A., 1984-1985
- Cardiovascular Drug Discovery Board, GLAXO, North Carolina, 1988-1990
- ICOS, Seattle, Washington, 1996-1999
- SERVIER, France, 1996-2000
- Interdisciplinary Development Advisory Board on Celecoxib in Alzheimer's Disease, SEARLE, Skokie, Illinois, 1998-1999
- CENTAUR, Sunnyvale, California, 1997-2000
- Consultant, MERCK 2000 Management of Acute Pain and Arthritis, Dallas, Texas, 2000

Start-Up Companies

- Co-Founder and Consultant, In Site Vision, Alameda, California, 1987-1989

- Operating Committee, Member, In Site Vision, Alameda, California, 1987-1989
- Scientific Advisory Board, Centaur, Sunnyvale, California, 1997-2000
- Scientific Founder, St. Charles Pharmaceuticals New Orleans, Louisiana, 1997-2000
- Board of Directors, Atrix Laboratories, Inc., 2001-2004
- Scientific Co-Founder and Chairman of the Board (in organization), South Rampart Pharmaceuticals, LLC, 2016-present
- Scientific Co-Founder and CEO, Neuresto Therapeutics, LLC 2017-present (Publicly Traded Company)

University-Industry Interactions

- Chairman, Task Force Research as an Economic Force for the Future at LSU Medical Center, New Orleans, Louisiana, 1988-1990
- Member Chair of Bioscience Committee, New Orleans New Business Initiative City Hall, New Orleans, Louisiana, 1989-1991

Other Activities

- Healthcare & Scientific Advisory Board, BlueStone Capital Partners, LP, New York, 1997-1998
- Genome Securities, Inc., Scientific Advisory Board, Scranton, Pennsylvania, 1998-1999
- eMed Securities, Inc., Chair, Scientific Advisory Board, Scranton, Pennsylvania, 2000-2002
- President, Louisiana Alliance for Biotechnology, Baton Rouge, Louisiana, 2000-2002

Development of Novel Synthetic Compounds and Therapeutic Applications

Based on fundamental research in the Bazan lab, patents were developed by effective collaborations with medicinal chemists. Novel molecules developed include: Platelet-activating factor receptor (PAF-R) antagonists, elovanoids, analgesics and other compounds. The lab uncovered receptor mediation (PAF-R) in brains damaged by the phospholipid mediator PAF, which is released during ischemic stroke. Excessive PAF release activates the receptor, triggering a myriad of pro-neuroinflammatory events that include: enhanced excitotoxicity by stimulating glutamate release, inhibition of ionotropic GABA receptor, apoptosis, induction of matrix metalloproteinases 1 and 9, activation of COX-2 transcription, and complement activation. Therefore, PAF-R antagonists for certain neuroinflammatory signaling activated by PAF were developed. The receptor antagonists are called LAU compounds (Louisiana Alcala Universities, reflecting the collaboration of the Bazan lab with Prof. Alvarez-Builla from the University of Alcala, Spain). One of the members of this series, LAU-0901 downregulates neuroinflammation and reduces the penumbra volume after an experimental ischemic stroke. Thus LAU PAF-R antagonists are highly neuroprotective. Bazan and collaborators also developed a series of acetaminophen (APAP) analogs, 2-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)-N-(4-hydroxyphenyl) alkanecarboxamides, bearing a heterocyclic moiety linked to the pacylaminophenol fragment. Unexpectedly, these compounds maintained their *in vivo* analgesic profile, while the hepatotoxicity of APAP was abolished. Analgesic and antipyretic efficacy was comparable to that of APAP and display an overall favorable safety profile as an orally delivered compound.

Abstracts

1. Barbieri FD, **Bazan NG**: Observaciones preliminares sobre la molécula de glucógeno de embriones de anfibios en desarrollo por medio de la reacción de iodo. Segundo simposio sobre metabolismo de los hidratos de carbono, Tucumán, Argentina, 1964.
2. Chiodi HP, **Bazan NG**: Fatty liver induced in the infant rat by chronic carbon monoxide hypoxia. *The Physiologist* 9:153, 1966.
3. **Bazan NG**, Joel CD: Free fatty acids in brain. *Fed. Proc.* 27:751, 1968.
4. **Bazan NG**, Cummings M: The turnover of brain fatty acids following decapitation or convulsions. Proc Second Int Meeting Int Soc Neurochem, R Paoletti, R Fumagalli, C Galli (eds), Tamburini Editore, Milan, Italy, 83-84, 1969.
5. **Bazan NG**: Factors affecting the brain free fatty acid pool. *Trans. Amer. Soc. Neurochem.* 1:28, 1970.
6. Bazan HEP, **Bazan NG**: Efectos de la isquemia y del desarrollo postnatal sobre los ácidos grasos libres del encéfalo. Congreso Argentino de Ciencias Biológicas, Fac de Medicina, Universidad de Buenos Aires, Buenos Aires, Argentina, 1970.
7. **Bazan NG**: Análisis de los ácidos grasos libres cerebrales y los efectos del shock hipoglucémico, anfetaminas y alfa metil-p-tirosina. Congreso Argentino de Ciencias Biológicas, Fac de Medicina, Universidad de Buenos Aires, Argentina, 1970.
8. **Bazan NG**: Distribución de fosfolípidos en fracciones subcelulares y algunas de sus propiedades en homogenados y preparaciones particuladas del cerebro de la rata. Congreso Argentino de Ciencias Biológicas, Fac de Medicina, Universidad de Buenos Aires, Argentina, 1970.
9. **Bazan NG**: Efectos de anestésicos y convulsiones sobre el contenido y composición de los ácidos grasos libres cerebrales. Congreso Argentino de Ciencias Biológicas, Facultad de Medicina, Universidad de Buenos Aires, Argentina, 1970.
10. **Bazan NG**: Variaciones en ácidos grasos libres neurales producidos por convulsiones y fosfolípidos A de fracciones subcelulares del cerebro de la rata. VI Reunión Nacional de la Sociedad Argentina de Investigaciones Bioquímicas, La Plata, Buenos Aires, Argentina, 1970.
11. Bazan HEP, **Bazan NG**: Cambios inducidos en lípidos del sistema nervioso central de la rata, por la isquemia. VI Reunión Nacional de la Sociedad Argentina de Investigaciones Bioquímicas, La Plata, Argentina, 1970.
12. Aveldano MI, **Bazan NG**: Diferencias en el contenido y composición de los grupos acilos de fracciones lipídicas de cerebro y retina. VII Reunión Nacional de la Sociedad Argentina de Investigaciones Bioquímicas, Bariloche, Argentina, 1971.
13. Crupkin M, **Bazan NG**: Estudios preliminares sobre la incorporación de ^{32}P durante el desarrollo embrionario temprano. VII Reunión Nacional de la Sociedad Argentina de Investigaciones Bioquímicas, Bariloche, Argentina, 1971.
14. Barassi CA, **Bazan NG**: Observaciones preliminares de los grupos acilos de lípidos neutros y polares en ovocito y blastula. VII Reunión Nacional de la Sociedad Argentina de Investigaciones Bioquímicas, Bariloche, Argentina, 1971.
15. **Bazan NG**: Lípidos y fosfolípidos de biomembranas. VII Reunión Nacional de la Sociedad Argentina de Investigaciones Bioquímicas, Bariloche, Argentina, 1971 (By invitation).
16. **Bazan NG**: Factors affecting the brain free fatty acids. 25th International Congress of Physiol Sci, Munich, Germany, 1971.
17. **Bazan NG**: Increased production of brain free fatty acid by ischemia, electroshock and drug induced convulsions. 3rd International Meeting Int Soc Neurochemistry, J Domokos, A Fonyo, I Huszak, J Szentagothai (eds), Akadémiai Kiadó, Budapest, Hungary, 1971.
18. Barassi CA, Crupkin M, **Bazan NG**: Heterogeneidad metabólica de especies moleculares y clases de lípidos de membranas durante el desarrollo embrionario del *Bufo Arenarium*. VI Congreso Argentino de Biología, S Miguel de Tucumán, Argentina, 1973.

19. Bazan HEP, Rodriguez de Turco EB, **Bazan NG**: Catabolismo de lipidos de membranas en el sistema nerviosos central. VI Congreso Argentino de Biología, S Miguel de Tucumán, Argentina, 1973.
20. Aveldano MI, Giusto NM, **Bazan NG**: Active transferencia *in vitro* de acidos grasos libres entre la retina y el medio de incubacion. IX Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Rosario, Argentina, 1973.
21. Crupkin M, **Bazan NG**: Carencia de refosforilacion de las fosfoproteinas de la retina en homogenados. IX Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Rosario, Argentina, 1973.
22. **Bazan NG**, Aveldano MI, Bazan HEP, Rodriguez EB: Dinamica del pool de acidos grasos libres y de otros componentes derivados de lipidos polares en el tejido nervioso. IX Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Rosario, Argentina, 1973.
23. Barassi CA, **Bazan NG**: Comparación entre el contenido de AND y los cambios en la actividad específica y el nivel de lipidos polares durante el desarrollo embrionario. IX Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Rosario, Argentina, 1973.
24. Pechen AM, **Bazan NG**: Transferencia de lipids polares y de la fracción acido soluble entre organelas subcelulares de embriones en desarrollo. IX Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Rosario, Argentina, 1973.
25. Perez Ballester BM, Gonzalez de Castro SR, **Bazan NG**: Studies on the adipose tissue, endometrium and serum lipids composition and on the ³²P incorporation into human endometrial phospholipids during normal cycle during anovulatory treatment. Excerpta Medica nE 279, 893, 1973.
26. Crupkin M, **Bazan NG**: Phosphoprotein phosphatases activities in neural tissues. 9th International Congress of Biochemistry, Stockholm, Sweden, 1973.
27. Bazan H, Aveldano de Caldironi MI, **Bazan NG**: Modifications in the free **fatty acids**, triacylglycerols, and monoacylphosphoglycerides during ischemia in the central nervous system of homeotherms and poikilotherms. Fourth International Mtg of the Int Soc of Neurochemistry, Tokyo, Japan, 1973.
28. Rodriguez de Turco EB, Pascual Bazan HEP, **Bazan NG**: Possible significado fisiologico de los caminos catabólicos de los componentes lipidicos de biomembranas del sistema nervioso. XI Congreso Latinoamericano de Ciencias Fisiologicas, Mendoza, Argentina, 1973.
29. Giusto NM, **Bazan NG**: Estudios metabolicos de lipidos neutros y polares en la retina *in vitro* por medio del glicerol-¹⁴C. X Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Buenos Aires, Argentina, 1974.
30. Bazan HEP, **Bazan NG**: Estudios sobre glicerolipidos del sistema nervioso central por medio del glicerol-¹⁴C y de acido araquidonico-³H. X Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Buenos Aires, Argentina, 1974.
31. **Bazan NG**, Aveldano MI, Ilincheta MG, Pediconi MF: Diacilgliceroles endógenos y su metabolismo en el sistema nervioso central. X Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Buenos Aires, Argentina, 1974.
32. Pechen AM, **Bazan NG**: Incorporación *in vivo* e *in vitro* de glicerol-¹⁴C en lipidos neutros y polares de embriones de sapo en desarrollo. X Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Buenos Aires, Argentina, 1974.
33. Rodriguez de Turco EB, Cascone GD, **Bazan NG**: Metabolismo de ³²P y composición en lipidos encefálicos del ratón recién nacido. X Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Buenos Aires, Argentina, 1974.
34. Perez Ballester BM, Gonzalez de Castro S, **Bazan NG**: Estudios *in vivo* e *in vitro* sobre el metabolismo lipidico con particular referencia a la accion de las hormonas esteroideas. World Congress of Fertility and Esterility, Buenos Aires, Argentina, 1974.

35. Pechen AM, **Bazan NG**: Biogénesis de membranas celulares durante el desarrollo temprano de los embriones de vertebrados. World Congress of Fertility and Esterility, Buenos Aires, 1974.
36. **Bazan NG**, Giusto NM, Bazan HEP, Aveldano MI: Metabolism of phospholipids and triglycerides in the retina. 17th Intl Conf Biochem of Lipids, Milan, Italy, 1974 (By invitation).
37. Caldironi HA, Ford MC, **Bazan NG**: Estudios preliminares sobre lipidos de carnes tiernizadas y supercongeladas. Segundas Jornadas de la Industria Alimentaria, San Rafael, Mendoza, Argentina, 1974.
38. **Bazan NG**: Ensenanza universitaria en relacion a la industria alimentaria. Formacion de bioquimicos con orientacion tecnologica. Segundas Jornadas de la Industria Alimentaria, San Rafael, Mendoza, Argentina, 1974 (By invitation).
39. Giusto NM, Bazan HEP, **Bazan NG**: Phospholipid biosynthesis in the entire retina incubated with ¹⁴C-glycerol. En Simposio sobre Funcion y Metabolismo de Fosfolipidos en los sistemas nerviosos central y periferico, en la International Society for Neurochemistry, Cortona, Italy, p 21, 1975 (By invitation).
40. **Bazan NG**, Rodriguez de Turco EB, Pediconi MF, Cascone GD: Involvement of highly unsaturated free **fatty acids** in synaptic transmission. En Simposio sobre Funcion y Metabolismo de Fosfolipidos en los sistemas nerviosos central y periferico, en la International Society of Neurochemistry, Cortona, Italy, p 21, 1975.
41. Gauna de Rositano A, Aveldano de Calderon MI, **Bazan NG**: Catecholamine-affecting drugs and electroshock on brain diacylglycerols and free **fatty acids**. V Congreso Internacional de la Sociedad Internacional de Neuroquimica, Barcelona, Spain, p 373, 1975.
42. Rodriguez de Turco EB, **Bazan NG**: Fatty acid distribution in acylglycerides, free **fatty acids** and phosphatidic acid of developing mouse brain. V Congreso Internacional de Neuroquimica, Barcelona, Spain, p 373, 1975.
43. Bazan HEP, **Bazan NG**: Metabolism of glycerolipids in the toad retina and brain. V Congreso Internacional de la Sociedad Internacional de Neuroquimica, Barcelona, Spain, p 387, 1975.
44. Giusto NM, **Bazan NG**: Cattle retina glycerolipids metabolism. V Congreso Internacional de la Sociedad Internacional de Neuroquimica, Barcelona, Spain, p 378, 1975.
45. Ilincheta de Boschero MG, **Bazan NG**: Biosintesis de novo de glicerolipidos de la retina *in vitro*. Desplazamiento hacia fosfatidilinositol por propranolol y fentolamina. XI Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Cordoba, Argentina, 1975.
46. Bonini de Romanelli IC, Pechen de D'Angelo AM, **Bazan NG**: Lipidos durante el desarrollo embrionario temprano del sapo Bufo Arenarum, Hensel. XI Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquim, Córdoba, Argentina, 1975.
47. Rodriguez de Turco EB, **Bazan NG**: Efectos de la anoxia sobre los lipidos encefalicos del raton recien nacido. XI Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Córdoba, Argentina, 1975.
48. Aveldano de Caldironi MI, **Bazan NG**: Accion de drogas adrenergicas sobre lipidos del encefalo de mamiferos durante la isquemia y el shock electroconvulsivo. XI Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Córdoba, Argentina, 1975.
49. **Bazan NG**, Giusto NM, Bazan HEP, Ilincheta de Boschero MG: Biosíntesis de Novo de glicerolipidos del sistema nervioso central. Modificaciones regulatorias en la disponibilidad de lipidos para biomembranas en el tejido entero. XI Reunion Nacional de la Sociedad Argentina de Investigaciones Bioquimicas, Córdoba, Argentina, 1975 (By invitation).
50. Caldironi HA, Ford MC, Arena R, **Bazan NG**: Lipidos en carnes bovinas congeladas y supercongeladas con distintos tiempos de almacenamiento. Primer Simposio Nacional sobre Tecnologia de Carne Bovina, Bahía Blanca, Argentina, 1975.
51. Caldironi HA, **Bazan NG**: Enzimas en exudados de carnes bovinas congeladas y supercongeladas. Primer Simposio Nacional sobre Tecnología de Carne Bovina. Bahía Blanca, Argentina, 1975.

52. Caldironi HA, **Bazan NG**: Aplicación de la electroforesis sobre geles de poliacrilamida al estudio de proteínas en carnes congeladas, supercongeladas y en la determinación del grado de coccion. Primer Simposio Nacional sobre Tecnología de Carne Bovina, Bahía Blanca, Argentina, 1975.
53. Pediconi MF, Cascone GD, **Bazan NG**: Efecto de la isquemia sobre el metabolismo del araquidonato-¹⁴C en clases de glicerolipidos del sistema nervioso central. XII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Sierra de la Ventana, Argentina, 1976.
54. Cascone GD, Pediconi MF, **Bazan NG**: Acción del electroshock sobre la neosíntesis de glicerolipidos neurales a partir del glicerol-¹⁴C. XII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Sierra de la Ventana, Argentina, 1976.
55. Pechen de D'Angelo AM, Bonini de Romanelli IC, Alonso TS, **Bazan NG**: Composition and metabolism of phospholipids during the early stages of the vertebrate embryonic development. Simposio Internacional sobre Función y Biosíntesis de Lipido, Sierra de la Ventana, Argentina, p 22, 1976 (By invitation).
56. **Bazan NG**, Ilincheta de Boschero MG, Giusto NM, Bazan HEP: Selective modifications in the novo biosynthesis of phosphatidylinositol and of other neural tissue lipids induced by drugs and bivalent cations. Simposio Intl sobre Biosíntesis y Función de Lipidos, Sierra de la Ventana, Argentina, p 28, 1976 (By invitation).
57. Rodriguez de Turco EB, Cascone GD, Pediconi MF, **Bazan NG**: The composition and metabolism of phosphatidic acid and phosphatidylinositol in the mouse brain following electroshock, anoxia or ischemia. Simposio Internacional sobre Función y Biosíntesis de Lipidos, Sierra de la Ventana, Argentina, p 29, 1976 (By invitation).
58. Aveldano de Caldironi MI, **Bazan NG**: Phosphatidic acid of the toad central nervous system: **Fatty acid** composition and metabolic relationship with other glycerolipids. Simposio Internacional sobre Función y Biosíntesis de Lipidos, Sierra de la Ventana, Argentina, p 29, 1976 (By invitation).
59. Giusto NM, **Bazan NG**: Changes in glycerolipid metabolism in the cattle retina due to calcium, magnesium, potassium and to a bivalent cation ionophore. Simposio Internacional sobre Función y Biosíntesis de Lipidos, Sierra de la Ventana, Argentina, p 33, 1976 (By invitation).
60. Bonini de Romanelli IC, Alonso TS, Pechen de D'Angelo AM, **Bazan NG**: Algunos aspectos de la biosíntesis de fosfolipidos durante el desarrollo embrionario temprano. XII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Sierra de la Ventana, Argentina, 1976.
61. **Bazan NG**, Ilincheta de Boschero MG: Temprano efecto del propranolol y fentolamina sobre el metabolismo de fosfolipidos en la retina. XII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Sierra de la Ventana, Argentina, 1976.
62. Rodriguez de Turco EB, **Bazan NG**: Efecto de la anoxia sobre el recambio y neosíntesis de lípidos encefálicos del ratón. XII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Sierra de la Ventana, Argentina, 1976 (By invitation).
63. Rodriguez de Turco EB, **Bazan NG**: Composición y neosíntesis de glicerolipidos en el sistema nervioso central en desarrollo. XII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Sierra de la Ventana, Argentina, 1976.
64. Bazan HEP, **Bazan NG**: De novo biosynthesis of glycerolipids and membrane biogenesis in the retina. 10th International Congress of Biochemistry, Hamburg, Germany, 1976.
65. Cascone GD, **Bazan NG**: Endogenous acyl groups in lipids, free arachidonic acid and -¹⁴C-20:4 metabolism after electroconvulsive shock. 10th International Congress in Biochemistry, Hamburg, Germany, 1976.
66. Rodriguez de Turco EB, Giusto NM, **Bazan NG**: Endogenous production of long chain **fatty acid** methyl esters in the neural tissue. 10th International Congress of Biochemistry, Hamburg, Germany, 1976.
67. **Bazan NG**, Ilincheta de Boschero MG, Giusto NM: Branch regulatory point in the neural tissue glycerolipid biosynthesis. 10th International Congress of Biochemistry, Hamburg, Germany, 1976.

68. **Bazan NG:** Acción de bloqueadores adrenérgicos sobre la biosíntesis de lípidos de membranas. VI Congreso Latinoamericano de Farmacología, Buenos Aires, Argentina, 1976 (By invitación).
69. Caldironi HA, **Bazan NG:** Extension de los estudios en geles de poliacrilamida a las proteínas hidrosolubles de carne bovina. Terceras Jornadas Nacionales de la Industria Alimentaria, Mendoza, Argentina, 1977.
70. Caldironi HA, **Bazan NG:** Acción de antioxidantes sobre tejido adiposo bovino almacenado en frio. Terceras Jornadas Nacionales de la Industria Alimentaria, Mendoza, Argentina, 1977.
71. **Bazan NG**, Pechen de D'Angelo AM: Biogénesis de las membranas celulares durante la fecundación y el desarrollo embrionario inicial. VII Reunion de la Asociación Latinoamericana de Investigaciones en Reproducción Humana, Cali, Colombia, 1977 (By invitation).
72. Cascone GD, Pediconi MF, **Bazan NG:** Effect of ischemia or electroconvulsive shock on the metabolism of ¹⁴C-palmitate and ¹⁴C-arachidonate in the brain. 6th International Society for Neurochemistry, Copenhagen, Denmark, 1977 (Abstract #449).
73. Bazan HEP, Giusto NM, **Bazan NG:** Neosynthesis of retina lipids from ¹⁴C-glucose or ¹⁴C-glycerol-3-phosphate. 6th Intl Mtg Intl Soc for Neurochem, Copenhagen, Denmark, 1977 (Abstract #492).
74. **Bazan NG**, Ilincheta de Boschero MG, Giusto NM, Rodriguez de Turco EB: Effect of phentolamine and of propranolol on the labeling by ¹⁴C-choline of monoacyl- and diacylglyceril-sn-phosphatidylcholine. 6th Intl Mtg Intl Soc for Neurochem, Copenhagen, Denmark, 1977 (Abstract #493).
75. Aveldano de Caldironi MI, **Bazan NG:** Compositional and metabolic heterogeneity in retinal glycerolipids. 6th Intl Mtg Intl Soc for Neurochem, Copenhagen, Denmark, 1977 (Abstract #494).
76. Ilincheta de Boschero MG, **Bazan NG:** Comparative study of the action of haloperidol, dopamine, propranolol and phentolamine on the de novo synthesis of retinal lipids. 6th Intl Mtg Intl Soc for Neurochem, Copenhagen, Denmark, 1977 (Abstract #506).
77. **Bazan NG**, Dudley PA, Anderson RE: Metabolismo de los ácidos estearico y araquidónico en glicerolipidos de membranas fotorreceptoras de la retina. II Reunion Regional de Panamerican Association of Biochemical Societies and XIII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, La Falda, Córdoba, Argentina, 1977 (Resumen #118).
78. Giusto NM, Rodriguez de Turco EB, **Bazan NG:** Metabolismo de ³H-glicerol monoleato en el tejido nervioso. II Reunion Regional de Panamerican Association of Biochemical Societies and XIII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, La Falda, Córdoba, Argentina, 1977 (Resumen #119).
79. Aveldano de Caldironi MI, **Bazan NG:** Distribución y biosíntesis de especies moleculares en diacilglicerolipidos en retina. II Reunion Nacional de Panamerican Association of Biochemical Societies and XIII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, La Falda, Córdoba, Argentina, 1977 (Resumen #120).
80. Pediconi MF, Cascone GD, **Bazan NG:** Acción de la isquemia y shock electroconvulsivo sobre el metabolismo del palmitato -¹⁴C en cerebro de ratón. II Reunion Regional Panamerican Association of Biochemical Societies and XIII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, La Falda Córdoba, Argentina, 1977 (Resumen #121).
81. Ilincheta de Boschero MG, **Bazan NG:** Incorporación de ¹⁴C-glicerol y ¹⁴C-serine en lípidos de la retina. Efectos del haloperidol y otros antagonistas adrenérgicos. II Reunion Regional de Panamerican Association of Biochemical Societies and XIII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, La Falda, Córdoba, Argentina, 1977 (Resumen #122).
82. Alonso TS, Bonini de Romanelli ICB, **Bazan NG:** Comparación entre los ácidos grasos de fosfatidilserina, fosfatidilinositol, cardiolipina, ácido fosfatídico y lípidos neutros de ovocitos y embriones. II Reunion Regional de Panamerican Association of Biochemical Societies y XIII Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, La Falda, Córdoba,

- Argentina, 1977 (Resumen #123).
83. Pediconi MF, Cascone GD, **Bazan NG**: Producción de acido araquidonico libre endogeno y su metabolismo en el sistema nervioso central. VI Reunion Nacional de la Sociedad Argentina de Biofisica, La Plata, Argentina, 1977 (By invitation).
84. Alonso TS, Bonini de Romanelli ICB, Pechen de D'Angelo AMP, **Bazan NG**: Composición y metabolismo de lipidos de membrana durante el desarrollo embrionario temprano. VI Reunion Nacional de la Sociedad Argentina de Biofísica, La Plata, Argentina, 1977.
85. Caldironi HA, **Bazan NG**: Efectos de antioxidantes sobre el tejido adiposo bovino. I. Butilhidroxi-anisol (BHA) y alfa-tocoferol. 2nd Simposio Nacional de Ciencia y Tecnología de Carnes, Buenos Aires, Argentina, 1978.
86. Caldironi HA, **Bazan NG**: Efectos de antioxidantes sobre el tejido adiposo bovino. II. Butilhidroxitolueno (BHT) y ascorbico-EDTA-citrico. 2nd Simposio Nacional de Ciencia y Tecnología de Carnes, Buenos Aires, Argentina, April 24-28, 1978.
86. Caldironi HA, **Bazan NG**: Electroforesis sobre geles de poliacrilamida como metodo para la detección de la temperatura final de cocción de carne bovina. 2nd Simposio Nacional de Ciencia y Tecnología de Carnes, Buenos Aires, Argentina, April 24-28, 1978.
87. Romanelli ICB de, Alonso TS, D'Angelo AMP, **Bazan NG**: Redistribución fosfolipídica y activo recambio de la porción polar sin neosíntesis, durante al embriogénesis temprana. VII Reunion Nacional de la Sociedad Argentina de Biofísica, Pehuen-Co, Pcia. de Buenos Aires, Argentina, December 1-2, 1978.
88. Pediconi MF, Suarez GDC, **Bazan NG**: Modelo para estudiar el metabolismo de lipidos de membranas del sistema nervioso central. VII Reunion Nacional de la Sociedad Argentina de Biofísica, Pehuen-Co, Pcia. de Buenos Aires, Argentina, December 1-2, 1978.
89. **Bazan NG**, Boschero MGI de, Giusto NM: Acción de drogas anfifílicas cationicas sobre la biosíntesis de fosfolipidos. Que es lo que este efecto significa para las membranas celulares? VII Reunion Nacional de la Sociedad Argentina de Biofísica, Pehuen-Co, Pcia. de Buenos Aires, Argentina, December 1-2, 1978.
90. Careaga MM, Bazan HEP, **Bazan NG**: El propranolol incrementa la biosíntesis del fosfatidato, fosfatidilinositol y fosfatidilserina en la retina de sapo. Distribución subcelular del efecto. VII Reunion Nacional de la Sociedad Argentina de Biofísica, Pehuen-Co, Pcia. de Buenos Aires, Argentina, December 1-2, 1978.
91. Aveldano MI, Giusto NM, Escalante SDF, **Bazan NG**: Biosíntesis de lipidos de membranas en la retina bovina *in vitro*. Efectos de la composición ionica del medio de incubacion. VII Reunion Nacional de la Sociedad Argentina de Biofísica, Pehuen-Co, Pcia. de Buenos Aires, Argentina, 1978.
92. **Bazan NG**, Bazan HEP: Metabolismo del fosfatidilinositol en la retina de sapo. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, 1978.
93. Giusto NM, **Bazan NG**: Metabolismo de glicerolipidos en fracciones microsómicas de retina bovina. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, 1978.
94. Bazan HEP, Careaga MM, **Bazan NG**: Distribución subcelular de glicerolipidos y de su neobiosíntesis a partir de glicerol-³H en la retina de sapo. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, November 1-4, 1978.
95. Alonso TS, Romanelli ICB de, **Bazan NG**: Metabolismo de ³²P en fosfolipidos de ovocitos y embriones en desarrollo temprano. II. Distribución en fracciones microsómicas y en sobrenadante postmicrosomal. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, 1978.
96. Rodriguez de Turco EB, Caldironi MIA, Giusto NM, Boschero MGI, **Bazan NG**: Desarrollos metodológicos para el aislamiento, cuantificación y determinación de radioactividad de fosfolipidos

- y de lipidos neutros de tejidos animales. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, November 1-4, 1978.
97. Caldironi MIA, Giusto NM, Boschero MGI, **Bazan NG**: Modificaciones del flujo metabólico del glicerol radioactivo (G^*) en glicerolipidos debidas a las condiciones de incubación en la retina bovina. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, 1978.
 98. Pediconi MF, Suarez GDC, **Bazan NG**: Efecto de la anoxia bajo nitrógeno sobre el metabolismo del araquidonico radioactivo en el encéfalo del ratón adulto. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, November 1-4, 1978.
 99. Boschero MGI, **Bazan NG**: Estudio comparativo acerca de la acción del dl-propranolol, propranololglícol y d-propranolol sobre la biosíntesis de novo de glicerolipidos en la retina bovina. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, 1978.
 100. Alcalde RE, **Bazan NG**: Efecto de la isquemia sobre la producción de ácidos grasos libres endógenos en regiones neuroanatómicas de la rata. XIV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Tucumán, Argentina, 1978.
 101. Giusto NM, Bazan HEP, Boschero MGI, Careaga MM, **Bazan NG**: Biosynthesis of phosphatidylserine (PS), phosphatidylinositol (PI) and phosphatidate (PA) in the retina. XI Intl Cong Biochem, Toronto, Canada, 1979.
 102. **Bazan NG**, Alonso TS, Romanelli ICB, D'Angelo AMP: Metabolism of phospholipids during membrane biogenesis in early developing toad embryos. XI Intl Cong Biochem, Toronto, Canada, 1979.
 103. **Bazan NG**, Giusto NM, Boschero MGI: De novo biosynthesis of membrane lipid in subcellular fractions of the retina. Intl Symposium Neurochem Retina, Athens, Greece, 1979. (By invitation)
 104. Giusto NM, Boschero MGI, **Bazan NG**: Modifications of lipid metabolism by drugs and incubating conditions in the bovine retina. 7th Mtg Intl Soc Neurochem, Jerusalem, Israel, 1979.
 105. Suarez GDC, **Bazan NG**: Free arachidonic acid in the brain during convulsion by pentylenetetrazol or electroshock. 7th Mtg Intl Soc Neurochem, Jerusalem, Israel, 1979.
 106. Aveldano MI, **Bazan NG**: Molecular species and metabolism of inositides in the retina. 7th Mtg of the Intl Soc Neurochem, Jerusalem, Israel, 1979.
 107. **Bazan NG**: Drug action on the biosynthesis of phosphatidylinositol and other lipids in the neural tissue *in vitro*. 7th Mtg Intl Soc Neurochem, Jerusalem, Israel, 1979 (By invitation).
 108. Careaga MM, Bazan HEP, **Bazan NG**: The metabolism of phospholipids and glycerides in the rat and toad retina. 7th Mtg Intl Soc for Neurochem, Jerusalem, Israel, 1979.
 109. **Bazan NG**: Fatty acid changes in convulsions. Neurochemistry and Clinical Neurology, Istanbul, Turkey, 1979 (By invitation).
 110. **Bazan NG**: Membrane lipids in the pathogenesis of brain edema. Phospholipids and arachidonic acid are the earliest membrane components changed at the onset of ischemia. 1st Intl Ernst Reuter Symposium Brain Edema, Berlin, East Germany, 1979 (By invitation).
 111. Escalante MSDF de, Giusto NM, **Bazan NG**: Acumulación de ácidos grasos libres de larga cadena en membranas fotorreceptoras y micosomales. XV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Bermejo, Mendoza, Argentina, 1979.
 112. Boschero MGI de, **Bazan NG**: Biosíntesis de fosfatidilserina en microsomas de retina bovina. XV Reunion Nacional de la Sociedad Argentina de Investigación Bioquímica, Bermejo, Mendoza, Argentina, 1979.
 113. Caldironi HA, **Bazan NG**: Utilización de antioxidantes para prevenir la peroxidación en el tejido adiposo bovino almacenado en frío. III Seminari y I Congreso Latinoamericano de Ciencia y Tecnología de Alimentos, Buenos Aires, Argentina, 1979.
 114. Caldironi HA, **Bazan NG**: Cuantificación de proteínas y determinación del grado de cocción en

- carne bovina. III Seminario y I Congreso Latinoamericano de Ciencia y Tecnología de Alimentos, Buenos Aires, Argentina, 1979.
115. Oliveira ZEG, Gomez MB, Careaga MM, Bazan HEP, **Bazan NG**: Efeitos da titiustoxina sobre a incorporacao de ^{32}P em phosphatidylinositol em acido fosfatidico em fatias de cortex cerebral de rato. 12th Congresso da Sociedade Brasileira de Fisiología, Riveirao Preto, March 31-April 4, 1980.
 116. Oliveira ZEG, Gomez MB, Careaga MM, Bazan HEP, **Bazan NG**: Distribuicao de ^3H -Glicerol em fosfolipides de cortex de rato tratada con titiustoxina. Anais da IX Reuniao Annual da Saaq, Caxambu, Brasil, April 1980.
 117. **Bazan NG**, Rodriguez de Turco EB, Pediconi MF, Cascone de Suarez GD: Rapid release of free arachidonic acid in the central nervous system *in vivo* due to stimulation. Golden Jubilee Intl Cong on Essential **Fatty Acids** and Prostaglandins. University of Minnesota, Minneapolis, MN, May 5-7, 1980 (By invitation).
 118. **Bazan NG**, Giusto NM: Biosynthesis and changes by drugs of phosphatidic acid enriched in **docosahexaenoic acid** in retina. Golden Jubilee Intl Congress on Essential **Fatty Acids** and Prostaglandins. University of Minnesota, Minneapolis, MN, May 5-7, 1980.
 119. **Bazan NG**, Aveldano de Caldironi MI, Giusto NM: Essential **fatty acids** in the retina. Golden Jubilee Intl Congress on Essential **Fatty Acids** and Prostaglandins. University of Minnesota, Minneapolis, MN, May 5-7, 1980.
 120. Marcheselli V, Bazan HEP, **Bazan NG**: Transporte axoplasmico de fosfolipidos en el sistema optico del pollo. XVI Reunion Nacional de la Sociedad Argentina de Investigación Bioquimica, Bermejo, Mendoza, Argentina, October 17-20, 1980.
 121. Aveldano de Caldironi MI, Pasquare de Garcia SJ, **Bazan NG**: Biosíntesis de especies moleculares de fosfatidilserina y de fosfatidiletanolamina. XVI Reunion Nacional de la Sociedad Argentina de Investigación Bioquimica, Bermejo, Mendoza, Argentina, October 17-20, 1980.
 122. Alonso TS, Bonini de Romanelli IC, Connelli CC, Orellana O, Allende J, **Bazan NG**: Incorporacion *in vitro* de precursores lipidicos en ovocitos de *Xenopus laevis* en el estadio VI. XVI Reunion Nacional de la Sociedad Argentina de Investigación Bioquimica, Bermejo, Mendoza, Argentina, October 17-20, 1980.
 123. Ginobili de Martinez MS, **Bazan NG**: Estudio comparativo entre la composición y metabolismo de lipidos de microscomas y capilares de corteza cerebral de rata. IX Reunion Anual de la Sociedad Argentina de Biofísica, Bermejo, Mendoza, Argentina, October 17-20, 1980.
 124. Caldironi H, **Bazan NG**: Empleo de antioxidantes en la proteccion de musculo bovino. III Simposio Nacional de Ciencia y Tecnología de Carnes, Buenos Aires, November 2-5, 1980.
 125. **Bazan NG**: Estado de la investigación científica sobre carnes en la Argentina. III Simposio Nacional de Ciencia y Tecnología de Carnes, Buenos Aires, November 2-5, 1980 (By invitation).
 126. **Bazan NG**: Synthesis of phosphatidic acid and essential phospholipids in the central nervous system in microsomal membranes and in isolated capillaries. International Symposium on New Trends in Nutrition, Lipid Research and Cardiovascular Diseases. Bahia Blanca, Province of Buenos Aires, November 5-7, 1980.
 127. **Bazan NG**: Effects of stimulation on brain arachidonic acid metabolism. International Symposium on New Trends in Nutrition, Lipid Research and Cardiovascular Diseases. Bahia Blanca, Province of Buenos Aires, November 5-7, 1980.
 128. **Bazan NG**, Rodriguez de Turco EB, Morelli SA: Membrane phospholipids and arachidonic acid in the brain during status epilepticus by bicuculline. Intl Symposium on Status Epilepticus, University of California, Los Angeles, USA, November, 17-19, 1980 (By invitation).
 129. **Bazan NG**, Morelli de Liberti SA, Rodriguez de Turco EB: Cerebral arachidonic acid increased in bicuculline-induced status epilepticus. *Trans Amer Soc Neurochem*, Richmond, Virginia, March 8-13, 1981.
 130. **Bazan NG**: Free arachidonic acid and arachidonoyl-diglycerides in brain edema and in epileptic

- seizures. 8th Meeting of the Intl Society for Neurochemistry, Nottingham, England, 1981 (By invitation).
131. Bazan HEP, Careaga MM, Sprecher H, **Bazan NG**: Metabolism of long-chain highly unsaturated **fatty acids** in the rat retina *in vivo*. 8th Meeting of the Intl Society for Neurochemistry, Nottingham, England, 1981.
 132. Marcheselli VL, Bazan HEP, **Bazan NG**: Phospholipid metabolism in the chicken visual system. 8th Meeting of the Intl Society for Neurochemistry, Nottingham, England, 1981.
 133. Careaga MM, Bazan HEP, **Bazan NG**: Effects of nitrogenous bases, calcium ions and different incubation media on glycero-lipid metabolism in retinal cell-free preparations. 8th Meeting of the International Society for Neurochemistry, Nottingham, England, 1981.
 134. Boschero MGI, Giusto NM, **Bazan NG**: Synthesis of phosphatidic acid in the retina. 8th Meeting of the Intl Soc for Neurochemistry, Nottingham, England, 1981.
 135. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Changes in free **fatty acids** and acyl groups of phospholipids during subcellular fractionation of cerebral cortex and cerebellum. 8th Meeting of the Intl Soc for Neurochemistry, Nottingham, England, 1981.
 136. **Bazan NG**: Biosynthesis of phosphatidic acid and of other phospholipids in the nervous system. Relationship with desaturation and chain elongation of polyenoic **fatty acids**. Intl Symposium on Phospholipid Metabolism in the Nervous System, Birmingham, England, 1981 (By invitation).
 137. Careaga MM, Ginobili de Martinez MS, Bazan HEP, **Bazan NG**: Estudios metabolicos del acido eicosapentaenoico (20:5) en el SNC de rata. XVII Reunion Anual Sociedad Argentina de Investig Bioquim, Mar del Plata, 1981.
 138. Morelli de Liberti SA, Rodriguez de Turco EB, **Bazan NG**: Cambios a nivel de acidos grasos libres y diacil gliceroles durante el estado convulsivo generado por bicuculina en el cerebro de rata. XVII Reunion Anual Sociedad Argentina de Investig Bioquimica, Mar del Plata, 1981.
 139. Giusto NM, Boschero MGI, **Bazan NG**: Reversibility of the propranolol-induced change in retinal phospholipid biosynthesis. Intl Symposium on Phospholipid Metabolism in the Nervous System, Birmingham, England, 1981, and in Phospholipids in the Nervous System, Vol 1, Metabolism, LA Horrocks, GB Ansell, G Porcellati (eds), Raven Press, New York, p 342, 1982.
 140. Rodriguez de Turco EB, Pediconi MF, **Bazan NG**: Diffusion of intracerebrally injected ¹⁴C-arachidonic acid or ¹⁴C-palmitic acid in the mouse brain. Effects of ischemia and electroconvulsive shock. Intl Symposium on Phospholipid Metabolism in the Nervous System, Birmingham, England, 1981, and in Phospholipids in the Nervous System, Vol 1, Metabolism, LA Horrocks, GB Ansell, G Porcellati (eds), Raven Press, NY, p 338, 1982.
 141. **Bazan NG**, Rodriguez de Turco EB: Rapid changes in endogenous pools containing arachidonic acid in cerebrum and cerebellum during experimental epilepsy. Intl Symposium on Phospholipid Metabolism in the Nervous System, Birmingham, England, 1981, and in Phospholipids in the Nervous System, LA Horrocks, GB Ansell, G Porcellati (eds), Raven Press, NY, p 337, 1982.
 142. Bazan HEP, Careaga MM, **Bazan NG**: Biosynthesis of docosahexaenoate from eicosapentaenoate in the retina *in vivo*. *Suppl Invest Ophthal Vis Sci* 22:67, 1982.
 143. **Bazan NG**, Rodriguez de Turco E: Metabolism and endogenous pools of arachidonic acid-enriched membrane lipids in brain edema. 5th Int Symposium Brain Edema, 1982 (By invitation).
 144. **Bazan NG**, Bazan HEP, Sprecher H, Careaga MM: Biosynthesis of **docosahexaenoic acid** from eicosapentaenoic acid and acylation in phospholipids of retinal membranes. *Fed Proc* 41:625, 1982.
 145. **Bazan NG**, Ilincheta de Boschero MG: Reversibility of propranolol-induced changes in the synthesis of monoglycerides, diglycerides, triglycerides and phospholipids in the retina. *Suppl Invest Ophthalmol Vis Sci* 22:67, 1982.
 146. **Bazan NG**, Rodriguez de Turco EB: **Fatty acid** release in rat and monkey brain in bicuculline-induced seizures. *Trans Amer Soc Neurochem* 13:205, 1982.

147. Giusto NM, **Bazan NG**: Highly active phosphatidic acid pool in microsomal and photoreceptor membranes of vertebrate retinas. *Suppl Invest Ophthalmol Vis* 22:183, 1982.
148. **Bazan NG**: Free arachidonic and **docosahexaenoic acid** accumulation in the nervous system during stimulation. Int Symposium Neural Membrane, Taipei, Taiwan R.O.C., 1982 (By invitation).
149. Giusto NM, Ilincheta de Boschero MG, **Bazan NG**: Phosphatidic acid in photoreceptor membranes. 5th Intl Cong of Eye Res, Nijmegan, The Netherlands, 1982 (By invitation).
150. **Bazan NG**: **Docosahexaenoic acid** acylation and metabolism in retinal phospholipids. 5th International Congress of Eye Research, Nijmegan, The Netherlands, 1982. (By invitation).
151. **Bazan NG**, Ilincheta de Boschero MG, Giusto NM: Effect of cationic amphiphilic drugs on the synthesis of membrane lipids in retina. 5th International Congress of Eye Research, Nijmegan, The Netherlands, 1982 (By invitation).
152. Garcia P, Giusto NM, **Bazan NG**: Actividad de fosfatidato fosfohidrolasa en membranas fotoreceptoras y microsomas de retina bovina. XVIII Reunion Anual Sociedad Argentina de Investigación Bioquímica, Córdoba, 1982.
153. Ilincheta de Boschero MG, Roccamo de Fernandez AM, **Bazan NG**: Producción de diacilgliceroles (DG) por acción de DL-propranolol. XVIII Reunion Anual Sociedad Argentina de Investigación Bioquímica, Córdoba, 1982.
154. Rodriguez de Turco EB, Arias H, **Bazan NG**: Alteraciones en el contenido y composición de pools lipidicos encefálicos ocasionados por la anoxia perinatal. XVIII Reunion Anual Sociedad Argentina de Investigación Bioquímica, Córdoba, 1982.
155. **Bazan NG**, Reddy TS: Synthesis of arachidonoyl-CoA by rat brain microsomes. *Trans Amer Soc Neurochem*, Honolulu, Hawaii, 14:104, 1983.
156. Rodriguez de Turco EB, Pediconi MF, **Bazan NG**: A single seizure alters brain arachidonate, and not palmitate, metabolism. *Trans Amer Soc Neurochem*, Honolulu, Hawaii, 14:104, 1983.
157. Giusto NM, **Bazan NG**: Accumulation of **fatty acid** methyl esters in anoxic retina and brain. *Trans Amer Soc Neurochem*, Honolulu, Hawaii, 14:103, 1983.
158. Ridenour BD, **Bazan NG**: Drug-induced changes in the metabolism of docosahexaenoate contained in photoreceptor and synaptic membranes in the *in vivo* rat retina. National Student Research Forum, Galveston, TX, 1983.
159. Reddy TS, **Bazan NG**: Docosahexaenoyl coenzyme A synthetase in frog retina. *Suppl Invest Ophthalmol Vis Sci* 24:162, 1983.
160. de Garcia SP, Giusto NM, **Bazan NG**: Phosphohydrolase in bovine rod outer segments (ROS). *Suppl Invest Ophthalmol Vis Sci* 24:163, 1983.
161. Bazan HEP, **Bazan NG**: New pathway for the esterification of docosahexaenoate in bovine retina microsomes. *Suppl Invest Ophthalmol Vis Sci* 24:163, 1983.
162. Birkle DL, **Bazan NG**: Conversion of arachidonic acid (AA) to cyclooxygenase (CO) and lipoxygenase (LO) reaction products and incorporation into membrane lipids in the intact bovine retina *in vitro*. *Suppl Invest Ophthalmol Vis Sci* 24:163, 1983.
163. **Bazan NG**, Reddy TS: Docosahexaenoyl coenzyme A synthetase from rat brain microsomes. *Fed Proc* 42:1858, 1983.
164. Bazan HEP, **Bazan NG**: Biosynthesis of docosahexaenoyl-phosphatidic acid in bovine retinal microsomes. *Fed Proc* 42:1864, 1983.
165. Rodriguez de Turco EB, **Bazan NG**: Brain free **fatty acids** and diglycerides in anoxic newborn mice. *Fed Proc* 42:2183, 1983.
166. Bazan, NG: Arachidonoyl-coenzyme A synthesis, eicosanoid release and phosphoinositide metabolism in the retina. *J Neurochem* 41:S90, 1983 (By invitation).
167. Birkle DL, **Bazan NG**: Synthesis of prostaglandins and related eicosanoids in the mammalian retina. Intl Symposium-Physiological Role of Phospholipids in the Nervous System. Harrison Hot

- Springs, B.C., Canada, 1983.
168. Reddy TS, **Bazan NG**: Arachidonoyl coenzyme A synthetase of frog retinal membranes. Intl Symposium-Physiological Role of Phospholipids in the Nervous System. Harrison Hot Springs, B.C., Canada, 1983.
169. **Bazan NG**, Birkle DL: Arachidonoyl chains of retinal phospholipids and synthesis of lipoxygenase-reaction products. Intl Symposium-Physiological Role of Phospholipids in the Nervous System. Harrison Hot Springs, B.C., Canada, 1983 (By invitation).
170. Reddy TS, **Bazan NG**: Docosahexaenoyl-coenzyme A synthetase and arachidonoyl-coenzyme A synthetase of brain microsomes are inhibited by cationic amphiphilic drugs. *Soc Neurosci*, 1983.
171. **Bazan NG**, Reddy TS: How experimental epilepsy alters brain docosahexaenoate and arachidonate metabolism. *Soc Neurosci*, 1983.
172. **Bazan NG**: Synaptic phospholipid, arachidonate, and docosahexaenoate metabolism in epilepsy. *J Neurochem* 41:S71, 1983 (By invitation).
173. Birkle DL, **Bazan NG**: The metabolism of [$\text{I-}^{14}\text{C}$]docosahexaenoic acid (22:6, n-3) in the rat brain *in vivo*. *J Neurochem* 41:120, 1983.
174. Reddy TS, **Bazan NG**: Long chain acyl coenzyme A synthetase from rat brain gray and white matter microsomes. *J Neurochem* 41:120, 1983.
175. **Bazan NG**, Rodriguez de Turco EB: Similarities and differences between membrane lipid changes in anoxic brain of newborn and mature rodents. *J Neurochem* 41:144, 1983 (By invitation).
176. **Bazan NG**, Birkle DL, Tang W, Reddy TS: The role of arachidonic acid release in epilepsy. Int Symposium Basic Mechanisms of the Epilepsies, San Diego, CA, 1983 (By invitation).
177. **Bazan NG**: Biosynthesis of phosphatidylinositol 4-phosphate and phosphatidylinositol 4,5-bisphosphate and the control of their hydrolysis to arachidonoyl diglyceride in the retina. Chilton Conference on Inositol and Phosphoinositides, Dallas, TX, 1983 (By invitation).
178. Horrocks LA, **Bazan NG**: Free fatty acid release from glycerophospholipids during injury. *Trans Amer Soc Neurochem*, Portland, OR, 15:252, 1984.
179. Birkle DL, Tang W, **Bazan NG**: The role of arachidonic acid in brain injury. Symposium of the involvement of phospholipids in brain injury. *Trans Amer Soc Neurochem*, Portland, OR, 15:255, 1984 (By invitation).
180. Reddy TS, Armstrong D, **Bazan NG**: FA metabolism in brain microsomes from canine ceroid-lipofuscinosis. *Trans Amer Soc Neurochem*, Portland, OR, 15:105, 1984.
181. **Bazan NG**, Rodriguez de Turco EB, Politi E: Dexamethasone inhibits the production of free AA in cryogenic brain edema. *Trans Amer Soc Neurochem*, Portland, OR, 15:105, 1984.
182. Tang W, **Bazan NG**: Dexamethasone decreases bicuculline-induced accumulation of brain FFA. *Trans Amer Soc Neurochem*, Portland, OR, 15:152, 1984.
183. Reddy TS, Birkle DL, Armstrong D, **Bazan NG**: Metabolism of docosahexaenoic acid (22:6) to lipoxygenase reaction products in the retina and pigment epithelium (PE) in canine ceroid lipofuscinosis (CL). *Suppl Invest Ophthalmol Vis Sci* 25(3):114, 1984.
184. Birkle DL, Reddy TS, Armstrong D, Koppang N, **Bazan NG**: Arachidonic acid (AA) metabolism and its conversion to eicosanoids in retina and pigment epithelium (PE) in canine ceroid lipofuscinosis (CL). *Suppl Invest Ophthalmol Vis Sci* 25(3):62, 1984.
185. Tang W, Birkle DL, King D, **Bazan NG**: Free fatty acid (FFA) composition and metabolism in the rat retina: Effect of hypoxia. *Suppl Invest Ophthalmol Vis Sci* 25(3):61, 1984.
186. **Bazan NG**, Reddy TS, Dobard P: Metabolic and structural alterations in retinal membrane lipids in mice with inherited blindness. *Suppl Invest Ophthalmol Vis Sci* 25(3):114, 1984.
187. Sanitato J, Birkle DL, Kaufman HE, **Bazan NG**: Herpes virus-induced changes in the metabolism of arachidonic acid (AA) in rabbit cornea. *Suppl Invest Ophthalmol Vis Sci* 25(3):325, 1984.
188. Bazan HEP, Birkle DL, Beuerman R, **Bazan NG**: Cyclooxygenase (CO) and lipoxygenase (LO) pathways from arachidonic acid (AA) in the three layers of injured rabbit cornea. 6th Int Congress

- on Eye Research, Alicante, Spain, 1984, p 98.
189. **Bazan NG**, Reddy TS, Birkle DL, Dobard DP: Lipid metabolism in experimental models of retinal degeneration. 6th Int Congress on Eye Research, Alicante, Spain, 1984, p 34.
190. Birkle DL, **Bazan NG**: Effect of K⁺ depolarization on arachidonic acid metabolism in the rat retina. 6th Int Congress on Eye Research, Alicante, Spain, 1984, p 40.
191. Bazan HEP, Birkle DL, Beuerman R, **Bazan NG**: Stimulated production of prostaglandins and lipoxygenase products in the injured rabbit cornea. Kyoto Conference on Prostaglandins, Kyoto, Japan, November 25-28, 1984.
192. **Bazan NG**, Birkle DL: Depolarization or convulsions increase the formation of HETE and PG in nervous tissue. Kyoto Conference on Prostaglandins, Kyoto, Japan, November 25-28, 1984.
193. Birkle DL, **Bazan NG**: Eicosanoid synthesis is stimulated in the retina in canine ceroid lipofuscinosis (CCL). Kyoto Conference on Prostaglandins, Kyoto, Japan, November 25-28, 1984.
194. **Bazan NG**: Arachidonic acid cascade, prostaglandins and lipoxygenase-leukotrienes in ophthalmology. Res Symposium on Prostaglandins and Eye in Honor of Prof. Nicolas G Bazan, Tokyo, Japan, November 23, p 10-12, 1984.
195. Bazan HEP, Birkle DL, **Bazan NG**: Prostaglandins in wound healing and corneal inflammation. Res Symposium on Prostaglandins and Eye in Honor of Prof. Nicolas G. Bazan, Tokyo, Japan, November 23, p 15, 1984.
196. **Bazan NG**: Prostaglandins and lipoxygenase metabolites in experimental models of inherited retinal degeneration. Res Symposium on Prostaglandins and Eye in Honor of Nicolas G. Bazan, Tokyo, Japan, November 23, p 16, 1984.
197. Vadnal R, Van Rooijen LAA, **Bazan NG**: Enhanced inositide turnover during bicuculline-induced status epilepticus. *Trans Amer Soc Neurochem* 16:311, 1985.
198. **Bazan NG**, Birkle DL: Fate of released free arachidonic and **docosahexaenoic acids** by stimulation. *Trans Amer Soc Neurochem* 16:154, 1985.
199. Birkle DL, Reddy TS, Armstrong D, **Bazan NG**: PGD₂ and HETEs in retina are increased in a model of Batten's disease. *Trans Amer Soc Neurochem* 16:297, 1985.
200. Horrocks LA, Harder H, Nakagawa Y, Yeo Y, Birkle D, **Bazan NG**: Turnover of polyunsaturated **fatty acids** in different molecular species. *Trans Amer Soc Neurochem* 16:154, 1985.
201. **Bazan NG**, Van Rooijen LAA: Alteration of protein and inositol lipid phosphorylation during cerebral ischemia. *J Neurochem* 44:S182, 1985.
202. Vadnal R, Van Rooijen LAA, **Bazan NG**: Effect of atropine on bicuculline-induced changes in inositol lipid metabolism in rat brain *in vivo*. *J Neurochem* 44:S48, 1985.
203. Reddy TS, **Bazan NG**: **Fatty acid** composition of [U-¹⁴C]**docosahexaenoic acid** metabolism in glycerolipids of human retina. *J Neurochem* 44:S24, 1985.
204. **Bazan NG**, Birkle DL, Reddy TS: Metabolic profiles of arachidonic and **docosahexaenoic acid** in the retina. The 2nd Int Congress on Essential **Fatty Acids** and Prostaglandins, London, England, March 24-27, 1985, p 201.
205. Van Rooijen LAA, **Bazan NG**: Metabolism of inositides and phosphatidate in bovine photoreceptor membranes and the effect of cationic amphiphilic drugs. Int Soc Neurochem - Satellite Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pharmacology, Mantova, Italy, May 26-29, 1985.
206. Reddy TS, **Bazan NG**: Comparison of extraction procedures for the quantitative isolation of polyphosphoinositides from rat brain tissue. Int Soc Neurochem Satellite Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pharmacology, Mantova, Italy, May 26-29, 1985.
207. **Bazan NG**: Unsaturated diacylglycerol and arachidonic acid in the molecular pathogenesis of brain and retinal injury. Int Soc Neurochem - Satellite Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pharmacology, Mantova, Italy, May 26-29, 1985.
208. Bazan HEP, Reddy ST, **Bazan NG**: Corneal stroma and iris-ciliary body are a major source of

- prostaglandins and lipoxygenase products in anterior segment in the *in vivo* rabbit eye during inflammation. *Suppl Invest Ophthalmol Vis Sci* 26:320, 1985.
209. Dobard P, Reddy TS, Birkle DL, Packer AJ, Gebhardt PC, **Bazan NG**: Fatty acid composition and arachidonate metabolism in vitreous. *Suppl Invest Ophthalmol Vis Sci* 26:231, 1985.
 210. Rossowska M, King D, **Bazan NG**, Bazan HEP: Polyphosphoinositide metabolism in the rabbit cornea. *Suppl Invest Ophthalmol Vis Sci* 26:182, 1985.
 211. Birkle DL, Reddy TS, **Bazan NG**: Metabolism of **docosahexaenoic acid** in rod-cone dysplasia in Irish setters. *Suppl Invest Ophthalmol Vis Sci* 26:63, 1985.
 212. **Bazan NG**, Reddy TS, Birkle DL: Arachidonic acid metabolism in membrane glycerolipids and synthesis of prostaglandins and leukotrienes in hereditary retinal degeneration. *Suppl Invest Ophthalmol Vis Sci* 26:63, 1985.
 213. Reddy TS, **Bazan NG**, Wiggert B, Lee L, Redmond M, O'Brien P, Aguirre G, Chader G: Endogenous binding of **fatty acids** to monkey retina interphotoreceptor retinoid-binding protein (IRBP). *Suppl Invest Ophthalmol Vis Sci* 26:17, 1985.
 214. Zatz M, **Bazan NG**, Reddy TS, Somers R, O'Brien P: Rhodopsin acylation by palmitoyl coenzyme A in solubilized bovine rod outer segments. *Suppl Invest Ophthalmol Vis Sci* 26:44, 1985.
 215. Birkle DL, **Bazan NG**: Incorporation of **docosahexaenoic acid** into glycerolipids and conversion to lipoxygenase reaction products in the rat brain *in vivo* and in monkey brain synaptosomes *in vitro*. *Soc Neurosci* 11:1135, 1985.
 216. **Bazan NG**, Birkle DL: Accumulation of free arachidonic acid and lipoxygenase products following bicuculline-induced status epilepticus is localized in rat cerebral synaptosomes. *Soc Neurosci* 11:1317, 1985.
 217. Vadnal R, Van Rooijen LAA, Dobard DP, **Bazan NG**: Bicuculline-induced status epilepticus enhances polyphosphoinositide metabolism in rat brain. *Epilepsia* 26:526, 1985.
 218. Birkle DL, **Bazan NG**: Effect of bicuculline-induced status epilepticus on the conversion of **docosahexaenoic acid** to lipoxygenase reaction products in the rat brain *in vivo*. *Epilepsia* 26:526, 1985.
 219. **Bazan NG**, Birkle DL: Stimulation of the arachidonic acid cascade in retina and rat brain synaptosomes by depolarization or convulsions. *Epilepsia* 26:519, 1985.
 220. Vadnal R, **Bazan NG**: Effects of electroconvulsive shock on cerebral polyphosphoinositides. *Trans Amer Soc Neurochem* 17:120, 1986.
 221. Birkle DL, Reddy TS, Acland G, **Bazan NG**: Polyunsaturated **fatty acid** metabolism in rod-cone dysplastic retina. *Trans Amer Soc Neurochem* 17:194, 1986.
 222. Scott BL, Reddy TS, **Bazan NG**: Docosahexaenoate in developing retinas of visual cell mutant mice. *Trans Amer Soc Neurochem* 17:305, 1986.
 223. **Bazan NG**, Reddy TS, Birkle DL: Brain eicosanoids, K⁺ depolarization and convulsions. *Trans Amer Soc Neurochem* 17:99, 1986.
 224. Dugan L, **Bazan NG**, Horrocks LA: Extraction/HPLC separation of polyphosphoinositides by neutral solvents. *Trans Amer Soc Neurochem* 17:38, 1986.
 225. **Bazan NG**: Polyunsaturated fatty-acids at the synapse and neuronal responsivity. *Trans Amer Soc Neurochem*, Symposium on Molecular Mechanisms of Neuronal Responsivity, Burlington, VT, March 21-23, 1986.
 226. Reddy TS, Birkle DL, **Bazan NG**: Lipoxygengation of **docosahexaenoic acid** in brain and retina. 6th Int Conf. Prostaglandins and Related Compounds, Florence, Italy, June 3-6, 1986.
 227. Birkle DL, **Bazan NG**: Light exposure increases eicosanoid production in the rat retina. 6th Int Conf. Prostaglandins and Related Compounds, Florence, Italy, June 3-6, 1986.
 228. **Bazan NG**, Birkle DL, Reddy TS: Arachidonic acid release from phosphoinositide cycle after electroconvulsive shock. 6th Int Conf. Prostaglandins and Related Compounds, Florence, Italy, June 3-6, 1986.

229. Bazan HEP, Reddy ST, **Bazan NG**: Effects of inflammation on eicosanoid synthesis in the cornea. 6th Int Conf. Prostaglandins and Compounds, Florence, Italy, June 3-6, 1986.
230. Birkle DL, **Bazan NG**: Effects of light exposure on the arachidonic acid (20:4) cascade in the rat retina. *Suppl Invest Ophthalmol Vis Sci*, 27:240, 1986.
231. Van Rooijen LAA, Rossowska M, Dobard P, **Bazan NG**: Phosphoinositides in bovine photoreceptors and retina. *Suppl Invest Ophthalmol Vis Sci*, 27:218, 1986.
232. Reddy TS, **Bazan NG**, Dobard P, Wiggert B, Chader GJ: Enhanced 3H-retinol labeling of interphotoreceptor retinoid-binding protein (IRBP) in frog retina *in vivo* after light onset. *Suppl Invest Ophthalmol Vis Sci*, 27:239, 1986.
233. Rossowska M, Claeys M, Birkle DL, Bazan HEP, **Bazan NG**: *In vitro* metabolism of **docosahexaenoic acid** (22:6) by lipoxygenase in the rat retina. *Suppl Invest Ophthalmol Vis Sci*, 27:296, 1986.
234. Bazan HEP, Dobard P, **Bazan NG**: Phospholipid- and calcium-dependent protein kinase C (PKC) in corneal epithelium and stroma. *Suppl Invest Ophthalmol Vis Sci*, 27:249, 1986.
235. **Bazan NG**, Reddy TS, Bazan HEP, Berman ER, Feeney-Burns L: Phospholipids and **fatty acids** of a lipofuscin-enriched fraction from retinal pigment epithelium (RPE) and rod outer segments (ROS) of human retina. *Suppl Invest Ophthalmol Vis Sci*, 27:249, 1986.
236. Crosson CE, Klyce SD, Bazan HEP, **Bazan NG**: Protein kinase C activation in the modulation of Cl-transport by the corneal epithelium. *Suppl Invest Ophthalmol Vis Sci*, 27:82, 1986.
237. **Bazan NG**, Dobard P, Wallingford J, Wiggert B, Chader GJ: Binding of **docosahexaenoic acid** and retinol to interphotoreceptor retinoid-binding protein in the frog retina *in vivo*. *Soc Neurosci* 12:673, 1986.
238. Vadnal R, **Bazan NG**, Bazan HEP: Accumulation of inositol triphosphate (IP₃) in the rat cerebrum after electroconvulsive shock. *Soc Neurosci*, 12:735, 1986.
239. **Bazan NG**, Rossowska M, Van Rooijen LAA: Inositol phospholipids and phosphatidic acid metabolism in retinal and photoreceptor membranes. 7th Intl Cong of Eye Research, Nagoya, Japan, September 25-October 1, 1986.
240. **Bazan NG**: The arachidonic acid cascade, inositol phospholipids and protein kinase C in cell signaling in the eye. Intl Symposium on Prostaglandins and Related Compounds in Ophthalmology, Tokyo, Japan, October 2-3, 1986.
241. Bazan HEP, Reddy STK, **Bazan NG**: Prostaglandins, lipoxygenase metabolites and leukotrienes in anterior segment inflammation. Intl Symposium on Prostaglandins and Related Compounds in Ophthalmology, Tokyo, Japan, October 2-3, 1986.
242. Pelias MZ, Scott BL, Reddy TS, **Bazan NG**: Altered **fatty acid** composition of plasma phospholipids in patients with Usher's syndrome. *Suppl Invest Ophthalmol Vis Sci*, 28:112, 1987.
243. Scott BL, Moises J, Lolley RN, **Bazan NG**: Selective accumulation of **docosahexaenoic acid (DHA)** in dissociated rod photoreceptor cells during mouse postnatal development. *Suppl Invest Ophthalmol Vis Sci*, 28:340, 1987.
244. Dobard G, Scott BL, Gebhardt PC, Reddy ST, **Bazan NG**: Synthesis of **docosahexaenoic acid** in the developing mouse retina. *Suppl Invest Ophthalmol Vis Sci*, 28:340, 1987.
245. **Bazan NG**, Rossowska M, Woodland JM, Bazan HEP, Birkle DL: Changes in peptide and non-peptide leukotrienes (LT) of the retinal pigment epithelium correlated with photoreceptor shedding and phagocytosis in *Xenopus laevis*. *Suppl Invest Ophthalmol Vis Sci*, 28:185, 1987.
246. Birkle DL, Bazan HEP, Rossowska M, Krzymowski ED, **Bazan NG**: Synthesis of leukotriene (LT) C₄ in retina, isolated rod outer segments (ROS) and retinal pigment epithelium (RPE) from *rana pipiens*. *Suppl Invest Ophthalmol Vis Sci*, 28:340, 1987.
247. Reinach P, Bazan HEP, Klyce SD, **Bazan NG**: Effects of phorbol esters on active ion transport in frog corneal epithelium. *Suppl Invest Ophthalmol Vis Sci*, 28:375, 1987.
248. Scott BL, **Bazan NG**: Polyunsaturated **fatty acids** in retinal development. American Oil Chemists'

- Society, 1987.
249. Scott BL, **Bazan NG**: Synthesis of docosahexaenoate and its delivery to the developing retina. Satell Symposium on Extracellular and Intracellular Messengers in the Vertebrate Retina, La Guaira, Venezuela, May 30-31, 1987.
250. Bazan HEP, **Bazan NG**, Rossowska M: Bradykinin and tumor-promoting phorbol diesters differentially activates docosahexaenoyl metabolism in retinal phospholipids. Intl Soc for Neurochem - Joint Mtg with Amer Soc for Neurochem, La Guaira, Venezuela, May 31-June 6, 1987.
251. Scott BL, **Bazan NG**: Docosahexaenoate synthesis in the developing mouse brain. Intl Soc for Neurochem - Joint Mtg with the Amer Soc for Neurochem, La Guaira, Venezuela, May 31-June 6, 1987.
252. **Bazan NG**, Bazan HEP, Birkle DL, Rossowska M: Synthesis of C₆ sulfidopeptide leukotriene C₄ in frog retina. Intl Soc for Neurochem - Joint Mtg with Amer Soc for Neurochem, La Guaira, Venezuela, May 31-June 6, 1987.
253. Birkle DL, **Bazan NG**: Labile lipid pools in rat brain subcellular fractions after perfusion with metabolic inactivators. Intl Soc for Neurochem - Joint Mtg with Amer Soc for Neurochem, La Guaira, Venezuela, May 31-June 6, 1987.
254. **Bazan NG**: Phospholipase A₂, polyunsaturated **fatty acids** and phospholipids in neuromodulation and in brain damage. Satell Symposium of the ISN-ASN Joint Mtg, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 13, 1987.
255. Birkle DL, Reddy TS, **Bazan NG**: Metabolism of **docosahexaenoic acid** in neurodegenerative disorders of the retina. Satell Symposium of the ISN-ASN Joint Mtg, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 52, 1987.
256. **Bazan NG**, Scott BL, Reddy TS, Pelias MZ: Decreased plasma **docosahexaenoic acid** in patients with an inherited retinal degeneration. Satell Symposium of the ISN-ASN Joint Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 53, 1987.
257. Scott BL, **Bazan NG**: Synthesis of long-chain n-3 polyunsaturated **fatty acids** in the developing mouse retina. Satell Symposium of the ISN-ASN Joint Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 54, 1987.
258. Bazan HEP, Birkle DL, **Bazan NG**: Metabolism of 1-alkyl-2-acyl-glycero-3-phosphocholine in the mouse brain. Satell Symposium of the ISN-ASN Joint Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 76, 1987.
259. Birkle DL, **Bazan NG**: Light-induced changes in arachidonic acid metabolism in rat retina and isolated rod outer segments. Satell Symposium of the Joint Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 77, 1987.
260. Scott BL, Lolley RN, **Bazan NG**: Docosahexaenoate in the developing mouse photoreceptor cell. Satell Symposium of the ISN-ASN Joint Meeting, Phospholipids in the Nervous System: Biochemical and Molecular Pathology, Puerto La Cruz, Venezuela, June 6-9, p. 78, 1987.
261. Gebhardt BM, Braquet P, Bazan HEP, **Bazan NG**: The effect of platelet-activating factor on cellular immune reactions *in vitro*. Institut Henri Beaufour, Foundation Ipsen Meeting: "The role of PAF in immune responses," Paris, France, June 25-26, 1987.
262. Scott BL, Moises J, **Bazan NG**: Maternal supply of n-3 essential **fatty acids** to the developing mouse retina. *Soc Neurosci* 13:239, 1987.
263. Birkle DL, Braquet P, **Bazan NG**: Inhibition of free polyunsaturated **fatty acid** accumulation in mouse brain during electroconvulsive shock and ischemia by the specific PAF antagonist, BN52021. *Soc Neurosci* 13:1498, 1987.
264. Spinnewyn B, Blavet N, Domingo M-T, Chabrier PE, **Bazan NG**, Braquet P: Beneficial role of ginkgolides (PAF-acether antagonists) and ciclosporin in cerebral ischemia. *Soc Neurosci* 13:1635,

1987.

265. **Bazan NG**, Marcheselli VL, Ma AD, Jelsema C: The role of GTP binding proteins (G-proteins) in the hydrolysis of docosahexaenoyl (22:6)-phospholipids in photoreceptors. *Suppl Invest Ophthalmol Vis Sci* 29:98, 1988.
266. Woodland J, Jumblatt MM, Neufeld A, Bazan HEP, **Bazan NG**: Epidermal growth factor (EGF) stimulated the hydrolysis of polyphosphoinositides and the accumulation of inositol trisphosphate in cultured endothelial cells. *Suppl Invest Ophthalmol Vis Sci* 29:112, 1988.
267. Scott BL, Wiggert B, Chader G, Redmond TM, **Bazan NG**: Docosahexaenoic acid binding to proteins of interphotoreceptor matrix and cytosol of pigment epithelium and retina. *Suppl Invest Ophthalmol Vis Sci* 29:107, 1988.
268. Cai F, Scott BL, **Bazan NG**: Delivery of omega-3 fatty acids to developing photoreceptor cell. *Suppl Invest Ophthalmol Vis Sci* 29:245, 1988.
269. Marcheselli VL, Scott BL, Racz E, Lolley R, **Bazan NG**: Early changes in membrane fatty acids of developing photoreceptor cells or rd mice. *Suppl Invest Ophthalmol Vis Sci* 29:383, 1988.
270. Limberg MG, Bazan HEP, Kaufman HE, Hazato A, Kurozumi S, **Bazan NG**: The effect of a new leukotriene inhibitor on herpes simplex virus infection of the anterior segment. *Suppl Invest Ophthalmol Vis Sci* 29:443, 1988.
271. Liu GM, Gordon WC, Song MK, Polansky J, **Bazan NG**: Human retinal pigment epithelial (RPE) cells in culture-quantitative growth analysis and preservation of morphological features. *Suppl Invest Ophthalmol Vis Sci* 29:415, 1988.
272. Scott BL, **Bazan NG**: Developing retinal photoreceptor cells accumulate polyunsaturated fatty acids. *Trans Amer Soc Neurochem*, New Orleans, LA, March 6-11, 19:108, 1988.
273. Marcheselli VL, Panetta T, Braquet P, **Bazan NG**: Are the PAF-acether involved in the post-ischemic-reperfusion brain damage. *Trans Amer Soc Neurochem*, New Orleans, LA, March 6-11, 19:207, 1988.
274. **Bazan NG**, Panetta T, Marcheselli VL, Braquet P, Spinnewyn B: Effects of platelet-activating factor antagonist (BN 52021) on free fatty acids, diacylglycerols, polyphosphoinositides and blood flow in the gerbil brain: Inhibition of ischemia-reperfusion induced cerebral injury. The 16th Princeton Conference on Cerebrovascular Diseases, Miami, FL, March 17-19, 1988.
275. Lee CH, **Bazan NG**: Docosahexaenoic acid (DHA) delivery and metabolism in isolated photoreceptor cells (IPC). National Student Research Forum, Galveston, Texas, April 6-8, 1988.
276. Penfield JG, **Bazan NG**, Birkle DL: Retinal l2-HETE synthesis by cytochrome P450. National Student Research Forum, Galveston, TX, April 6-8, 1988.
277. Marcheselli VL, Panetta T, Braquet P, Spinnewyn B, **Bazan NG**: Effects of platelet-activating factor antagonist (BN 52021) on cerebral microvasculature following ischemia-reperfusion induced cerebral injury. New York Academy of Sciences, NY, April 14-16, 1988.
278. Panetta T, Marcheselli VL, Braquet P, **Bazan NG**: Arachidonic acid metabolism and cerebral blood flow in normal, ischemia and ischemic-reperfused gerbil brain. Inhibition of ischemia-reperfusion induced cerebral injury by a platelet-activating factor antagonist. New York Academy of Sciences, NY, April 14-16, 1988.
279. Vadnal RE, **Bazan NG**: Carbamazepine inhibits signal transduction through the inositol lipid cycle using an *in vivo* model. 141st Annual Meeting of the American Psychiatric Association New Research, Montreal, Canada, May 7-13, 1988.
280. Bazan HEP, Reddy STK, **Bazan NG**: Involvement of platelet-activating factor (PAF) in corneal anterior segment inflammation. "There is a Case for PAF-Acether Antagonists," Paris, France, May 26-27, 1988.
281. **Bazan NG**, Tucker R, Braquet P, Bazan HEP: Protein kinase C and the PAF cycle in the cornea. "There is a Case for PAF-Acether Antagonists," Paris, France, May 26-27, 1988.
282. **Bazan NG**, Panetta T, Marcheselli VL, Braquet P, Spinnewyn B: A platelet-activating factor

- antagonist inhibits the cerebral blood flow and neurochemical changes caused by cerebral injury-reperfusion."There is a Case for PAF-Acether Antagonists," Paris, France, May 26-27, 1988.
283. Birkle DL, Braquet P, **Bazan NG**: BN 52021 inhibition of free polyunsaturated **fatty acid** accumulation in mouse brain during electroconvulsive shock and ischemia. "There is a Case for PAF-Acether Antagonist," Paris, France, May 26-27, 1988.
284. **Bazan NG**: The response of the nervous system to stimulation and the involvement of **fatty acid** metabolites in cell to cell communication. Porcelatti Symposium, Perugia, Italy, May 26-28, 1988.
285. Panetta T, Marcheselli VL, Braquet P, **Bazan NG**: A platelet-activating factor antagonist (BN 52021) protects brain damage after ischemia-reperfusion in the gerbil. Brain Damage and Plasticity International Symposium, Kotor, Yugoslavia, June 2-5, 1988.
286. **Bazan NG**: Lipid mediators of cell signal transduction in experimental epilepsy. XVIth C.I.N.P. Congress, Collegium Internationale Neuro-Psychopharmacologicum, Munich, Federal Republic of Germany, August 15-19, 1988.
287. **Bazan NG**, Moises J, Dobard G, Scott BL: The identification of a new biochemical alteration early in the differentiation of visual cells in inherited retinal degenerations. 8th International Congress of Eye Research Satellite Symposium, "Lipids in Humans with Retinitis Pigmentosa," San Francisco, CA, September 1, 1988.
288. **Bazan NG**, Scott BL: Omega-3 **fatty acid** metabolism in the developing mouse retina. 8th International Congress of Eye Research, San Francisco, CA, September 4-8, 1988.
289. Bazan HEP, Reddy STK, **Bazan NG**: Platelet-activating factor accumulated in the cornea after injury. 8th International Congress of Eye Research, San Francisco, CA, September 4-8, 1988.
290. Crook RB, Alvarado JA, **Bazan NG**, Polansky JR: Histamine stimulates inositol phosphate accumulation in cultured human non-pigmented ciliary epithelium. 8th International Congress of Eye Research, San Francisco, CA, September 4-8, 1988.
291. **Bazan NG**: Free radical damage to the retinal pigment epithelium and to the phagocytosis and shedding of photoreceptor. 8th International Congress of Eye Research, San Francisco, CA, September 4-8, 1988.
292. **Bazan NG**: Dietary omega-3 **fatty acids** and accumulation of **docosahexaenoic acid** (22:6) in rod photoreceptor cells of the retina and at synapses. The Swedish Society of Medicine Symposium, Stockholm, Sweden, November 2-3, 1988.
293. Birkle DL, Kurian P, **Bazan NG**: Seizure-induced alterations in lipid metabolism in hippocampus and cerebral cortex. *Soc Neurosci* 14:574, 1988.
294. **Bazan NG**, Cai F, Scott BL: Omega-3 **fatty acids** in the developing photoreceptor cell. *Soc Neurosci* 14:1200, 1988.
295. Gebhardt BM, **Bazan NG**, Braquet P: Platelet-activating factor suppresses interleukin 1 production by antigen presenting cells *in vitro*. 2nd International Conference on Tumor Necrosis Factor, Napa, CA, January 13-15, 1989.
296. **Bazan NG**: Supply of **docosahexaenoic acid** to rod photoreceptor cells and synapses. *Trans Amer Soc Neurochem*, Chicago, IL, March 5-10, 20:90, 1989.
297. Marcheselli VL, Rossowska M, Braquet P, **Bazan NG**: Platelet-activating factor binding sites in microsomes of rat brain cortex. *Trans Amer Soc Neurochem*, Chicago, IL, March 5-10, 20:135, 1989.
298. Squinto SP, Block AL, Braquet P, **Bazan NG**: Activation of HIV expression by PAF in human neuroblastoma cells. *Trans Amer Soc Neurochem*, Chicago, IL, March 5-10, 20:102, 1989.
299. Squinto SP, **Bazan NG**: Induction of *c-fos* transcription by PAF in human neuroblastoma cells. *Trans Amer Soc Neurochem*, Chicago, IL, March 5-10, 20:101, 1989.
300. **Bazan NG**: Retinal degenerations and polyunsaturated **fatty acids**. Les Workshops Ophthalmologiques D'Ipsen, "Biological Mechanisms in Ophthalmology," Paris, France, March 6-8, 1989.
301. **Bazan NG**: Lipid second messengers in cerebral ischemia. Smith Kline French Laboratory

- Cerebrovascular Conference, Orlando, FL, March 10-12, 1989.
302. Gordon WC, **Bazan NG**: **Docosahexaenoic acid** in rod outer segment renewal. Southeast Regional Meeting Society for Neuroscience, New Orleans, LA, April 7-8, 1989.
303. Marcheselli VL, Rossowska M, **Bazan NG**: Platelet-activating factor binding sites in microsomal and synaptic membranes. Southeast Regional Meeting Society for Neuroscience, New Orleans, LA, April 7-8, 1989.
304. **Bazan NG**, Braquet P: Neuronal cell signal transduction and second messenger in ischemia-reperfusion injury. 4th International Symposium, "New Frontiers of Biochemistry and Biophysics on Diagnosis and Treatment of Stroke Neurotrauma and Other Neurological Diseases," Firenze, Italy, April 19-21, 1989.
305. Gordon WC, **Bazan NG**: **Docosahexaenoic acid** in rod outer segment renewal. *Suppl Invest Ophthalmol Vis Sci* 30:294, 1989.
306. Baudouin C, Gordon WC, Fredj-Reygrobellet D, Baudouin F, Peyman G, Gastaud P, **Bazan NG**: Class II antigen expression in diabetic epiretinal membranes. *Suppl Invest Ophthalmol Vis Sci* 30:512, 1989.
307. Block A, **Bazan NG**, Squinto S: Platelet-activating factor increases the transcription of an HIV promoter-reporter gene construct in human neuroblastoma cells. 3rd International Conference on "Platelet-Activating Factor and Structurally Related Alkyl Ether Lipids," Tokyo, Japan, May 8-12, 1989.
308. **Bazan NG**, Braquet P, Squinto S: Platelet-activating factor brain response to injury and proto-oncogenes transcriptional activation. 3rd International Conference on "Platelet-Activating Factor and Structurally Related Alkyl Ether Lipids," Tokyo, Japan, May 8-12, 1989.
309. Bazan HEP, **Bazan NG**: Modulators of inflammation and wound healing: Search for new drugs. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
310. Bazan HEP, **Bazan NG**: Pathophysiology of the inflammatory response: Clinical mediators and corneal injury. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
311. **Bazan NG**: Molecular and pharmacological studies in retinal degeneration. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
312. **Bazan NG**: Research as an economic force for the future. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
313. **Bazan NG**: Innovation and drug development for the treatment of stroke. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
314. **Bazan NG**: Drug discovery in blinding eye diseases. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
315. **Bazan NG**: Mechanisms of epileptic brain damage: Development of new drugs. Showcase LA Research Abstracts, New Orleans, LA, May 26, 1989.
316. **Bazan NG**: Mediators of inflammation - Therapeutic implication in uveitis. The 10th Anniversary of Intl Uveitis Study Group, Le Kremlin-Bicetre Cedex, France, June 29-30, 1989.
317. Gordon WC, **Bazan NG**: **Docosahexaenoic acid (DHA)** uptake and distribution within the frog retina. *Soc Neurosci* 15:494, 1989.
318. **Bazan NG**, Marcheselli VL, Braquet P, Cluzel JM: Distinct platelet-activating factor (PAF) binding sites in synaptic membranes and microsomes from rat cerebral cortex. *Soc Neurosci* 15:68, 1989.
319. Cai F, **Bazan NG**: Metabolism of **docosahexaenoic acid (DHA)** in brain and retina in neonatal mouse. *Soc Neurosci* 15:295, 1989.
320. Allan G, **Bazan NG**: Differential increase in levels of c-fos and calcyclin, but not heat-shock protein 24, mRNAs in response to platelet-activating factor in a human neuroblastoma cell line. *Soc Neurosci* 15:842, 1989.
321. **Bazan NG**: Diacylglycerols, arachidonic acid, and inositol lipids rapidly change in the nervous

- system during stimulation, reflecting receptor-mediated events. 7th Intl Conf on Cyclic Nucleotides, Calcium, and Protein Phosphorylation, "The Biology and Medicine of Signal Transduction," October 8-13, 1989, Kobe, Japan.
322. Silman I, Varon L, Toker L, Eichler J, Anglister L, and **Bazan NG**: Biochemical and immunocytochemical studies on the glycolipid-anchored or *torpedo*-acetylcholinesterase. Xth Intl Symposium on Glycoconjugates, September, Jerusalem, Israel.
323. Baudouin C, Gordon WC, Fredj-Reygrobellet D, Lapalus P, Peyman GA, **Bazan NG**, Gastaud P: Immunohistological findings in intraocular proliferative tissues. 30th Mtg of Association for Eye Research, October 3-7, 1989, Montpellier, France.
324. **Bazan NG**: Neuronal cell signal transduction and second messengers in experimental epilepsy and cerebral ischemia. Intl Symposium on Neurotransmission and Signal Transduction, October 16-18, 1989, Taipei, Taiwan, Republic of China.
325. **Bazan NG**: Arachidonic acid (AA) lipoxygenation in retina. *Trans Amer Soc Neurochem*, Phoenix, AZ, March 4-9, 21:95, 1990.
326. **Bazan NG**: Uveitis and ocular inflammation. Les Séminaires Ophtalmologiques D'Ipsen, March 13-14, 1990, Royaumont, France.
327. Lin N, Braquet P, **Bazan NG**, Bazan HEP: Platelet-activating factor antagonists reduce the inflammatory response in endotoxin-induced keratitis and uveitis. XXVI Intl Cong of Ophthalmology, March 18-24, 1990, Singapore.
328. **Bazan NG**: New insights in retinal degenerative diseases: The role of polyunsaturated **fatty acids** in visual cell function. XXVI Intl Cong of Ophthalmology, March 18-24, 1990, Singapore.
329. Allan G, Bazan HEP, Tao Y, **Bazan NG**: Expression of the *c-fos* proto-oncogene mRNA is rapidly enhanced in the corneal epithelium following alkali burn. *Suppl Invest Ophthalmol Vis Sci* 31:316, 1990.
330. Ball S, Badeaux J, Graham S, Balazy M, **Bazan NG**: Increased ocular penetration of topical metipranolol in a suspension incorporating collagen particles. *Suppl Invest Ophthalmol Vis Sci* 31:405, 1990.
331. Baudouin C, Gordon WC, Fredj-Reygrobellet D, Baudouin F, Peyman GA, Lapalus P, **Bazan NG**: Immunohistologic study of subretinal membranes in age-related macular degeneration. *Suppl Invest Ophthalmol Vis Sci* 31:463, 1990.
332. Bazan HEP, Reddy STK, Allan G, **Bazan NG**: Enhanced expression of the growth-regulated calcyclin gene during corneal wound healing. *Suppl Invest Ophthalmol Vis Sci* 31:2, 1990.
333. **Bazan NG**, Cai F: Internalization of apolipoprotein E (APO E) in rod photoreceptor cells by a low density lipoprotein receptor. *Suppl Invest Ophthalmol Vis Sci* 31:471, 1990.
334. Cai F, Gordon WC, **Bazan NG**: **Docosahexaenoic acid** (22:6, n-3) is utilized for the synthesis of photoreceptor membrane phospholipid through a monensin-insensitive route. *Suppl Invest Ophthalmol Vis Sci* 31:471, 1990.
335. Cluzel J, Doly M, Braquet P, **Bazan NG**: Platelet-activating factor (PAF) and lyso-PAF metabolism in the retina. *Suppl Invest Ophthalmol Vis Sci* 31:580, 1990.
336. Doucet JP, **Bazan NG**: **Docosahexaenoic acid** (22:6, n-3) potentiates phorbol ester induction of *fos* expression in human Y79 retinoblastoma cells. *Suppl Invest Ophthalmol Vis Sci* 31:586, 1990.
337. Gordon WC, **Bazan NG**: Rhodopsin and some docosahexanoyl (22:6)-phospholipids are jointly displaced during rod outer segment renewal. *Suppl Invest Ophthalmol Vis Sci* 31:284, 1990.
338. Martin RE, **Bazan NG**: Immunocytochemical colocalization of growth-associated protein (GAP-43) and neuronal cell-adhesion molecule (N-CAM) in rabbit cornea. *Suppl Invest Ophthalmol Vis Sci* 31:157, 1990.
339. Rodriguez de Turco E, Gordon WC, **Bazan NG**: Light stimulates polyphosphoinositide hydrolysis by phospholipase C in frog retinal pigment epithelial cells (RPE). *Suppl Invest Ophthalmol Vis Sci* 31:370, 1990.

340. Strand VC, **Bazan NG**: The developing mouse retina has the capacity for desaturation (Δ -4 desaturase) and retroconversion of docosapentaenoic acid. *Suppl Invest Ophthalmol Vis Sci* 31:579, 1990.
341. Tao Y, Allan G, Bazan HEP, Lin N, **Bazan NG**: Corneal wound healing triggers an increase in growth-associated protein (GAP-43) mRNA in the trigeminal ganglia. *Suppl Invest Ophthalmol Vis Sci* 31:55, 1990.
342. Balazy M, **Bazan NG**: A novel method for the analysis of platelet-activating factor (PAF) and alkyl ether phospholipids by GC/MS or particle beam LC/MS. 7th Intl Conf in Prostaglandins and Related Compounds, May 28-June 1, 1990, Florence, Italy.
343. **Bazan NG**: Arachidonic acid (AA) lipoxygenation in the nervous system in response to stimulation. 7th Intl Conf in Prostaglandins and Related Compounds, May 28-June 1, 1990, Florence, Italy.
344. Allan G, **Bazan NG**: Platelet-activating factor and the non-hydrolyzable derivative carbonyl platelet-activating factor elevate levels of calcyclin mRNA in a human neuroblastoma cell line. *FASEB J* 4(7):A2149, 1990.
345. Bazan HEP, Reddy STK, **Bazan NG**, Allan G: Expression of calcyclin in corneal wound healing. *FASEB J* 4(7):A1816, 1990.
346. Doucet JP, **Bazan NG**: Platelet-activating factor stimulates immediate-early gene expression in proliferating human Y70 retinoblastoma cells. *FASEB J* 4(7):A1815, 1990.
347. Martin RE, **Bazan NG**: Expression of GAP-43/B-50 in sensory neurons of rabbit cornea. *FASEB J* 4(7):A2150, 1990.
348. **Bazan NG**, Gordon WC, Cai F, Strand V: Supply and utilization of **docosahexaenoic acid (DHA)** in photoreceptor cells. Satellite Mtg of 9th ICER on "Retinal Degeneration," July 24-28, 1990, Stockholm, Sweden.
349. **Bazan NG**, Lin N, Reddy S, Bazan HEP: Platelet-activating factor in ocular inflammation. Satellite Symposium of 9th ICER on "PAF and Ocular Inflammation," July 29-August 4, 1990, Helsinki, Finland.
350. **Bazan NG**, Rodriguez de Turco EB, Doucet J: Signal transduction by lipids in retinal cell systems. Satellite Symp of 9th ICER on "Human Ocular Cell Culture," August 2, 1990, Helsinki, Finland.
351. **Bazan NG**: Membrane phospholipids and the synthesis of eicosanoids and platelet-activating factor in the eye: Acute effects and long-term responses. Satellite of the 9th ICER, "Intl Symp of The Ocular Functions of Eicosanoids and Other Lipid Mediators", August 4-6, 1990, Haikko, Finland.
352. **Bazan NG**: Arachidonic acid (AA) lipoxygenation in the retina. Satellite of the 9th ICER, International Symposium of "The Ocular Functions of Eicosanoids and Other Lipid Mediators", August 4-6, 1990, Haikko, Finland.
353. **Bazan NG**, Gordon WC, Rodriguez de Turco EB: Differential incorporation of docosahexanoyl (22:6)-phospholipids in rod and cone photoreceptor cells of the frog retina. Satellite of the 9th ICER, International Symposium of "The Ocular Functions of Eicosanoids and Other Lipid Mediators," August 4-6, 1990, Haikko, Finland.
354. Cai F, Mims MP, Rodriguez de Turco EB, **Bazan NG**: ApoE-mediated delivery of docosahexaenoyl-phospholipids into neural retina and photoreceptor cells (PRC). Satellite of the 9th ICER, International Symposium of "The Ocular Functions of Eicosanoids and Other Lipid Mediators, August 4-6, 1990, Haikko, Finland.
355. Cluzel J, Doly M, Braquet P, **Bazan NG**: Platelet-activating factor (PAF) and lyso-PAF metabolism in the retina. Satellite of the 9th ICER, International Symposium of "The Ocular Functions of Eicosanoids and Other Lipid Mediators," August 4-6, 1990, Haikko, Finland.
356. Allan G, Moerschbaecher JM III, **Bazan NG**: Elevated levels of expression of GAP-43 and calcyclin mRNAs during TPA-induced differentiation of a human neuroblastoma cell line. *Soc Neurosci* 16:814, 1990.

357. Bazan HEP, Martin RE, Tao Y, **Bazan NG**: Trigeminal neurons respond to injury of their sensory terminals in cornea by increasing levels of GAP-43 (growth associated protein-43) protein and mRNA. *Soc Neurosci* 16:164, 1990.
358. **Bazan NG**, Gordon WC, Shivers BD, Rodriguez de Turco EB: Differential incorporation of docosahexaenoyl (22:6)-phospholipids in rod and cone photoreceptor cells of the frog retina. *Soc Neurosci* 16:407, 1990.
359. Cai F, Mims MP, Rodriguez de Turco EB, Webster D, **Bazan NG**: ApoE-mediated delivery of docosahexaenoyl-phospholipids into neural retina and photoreceptor cells (PRC). *Soc Neurosci* 16:407, 1990.
360. Kline RM, Panetta T, Updyke BV, **Bazan NG**: Development of a no-reflow model of cerebral ischemia in the rat using angiography. *Soc Neurosci* 16:939, 1990.
361. Marcheselli VL, Doucet JP, **Bazan NG**: PAF antagonist decreases *fos* expression in rat hippocampus induced by single seizure. *Soc Neurosci* 16:629, 1990.
362. Martin RE, Kline D, **Bazan NG**: Endogenous **fatty acids** of phospholipids in growth cones: Incorporation and metabolism of **docosahexaenoic acid** (22:6) during development. *Soc Neurosci* 16:458, 1990.
363. Baudouin C, Gordon WC, Fredj-Reygrobellet D, Baudouin F, Peyman G, Gastaud P, **Bazan NG**: Expression von Klasse-II-Antigen in diabetischen präretinalen Membranen. *Ophthalmological Digest* 4:7-8, 1990.
364. Doucet JD, Marcheselli VL, **Bazan NG**: PAF antagonism decreases ECS-evoked primary genomic response in the rat hippocampus. *Trans Amer Soc Neurochem* 22:184, 1991.
365. Marcheselli VL, **Bazan NG**: A specific antagonist for intracellular platelet-activating factor (PAF) binding sites lacks activity on synaptic membranes. *Trans Amer Soc Neurochem* 22:187, 1991.
366. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: ³H-DHA uptake and esterification into PI are coupled in photoreceptors. *Trans Amer Soc Neurochem* 22:188, 1991.
367. Visioli FV, Marcheselli VL, Rodriguez de Turco EB, **Bazan NG**: Successive electroconvulsive shock alters PPI metabolism in rat hippocampus. *Trans Amer Soc Neurochem* 22:225, 1991.
368. Quinn JH, **Bazan NG**: Identification of prostaglandin E₂ and leukotriene B₄ in the dysfunctional temporomandibular joint synovial fluid. Arthroscopy Association of North American, San Diego, CA, April 24-27, 1991.
369. Bazan HEP, Lin N, **Bazan NG**: Expression of α - and γ -protein kinase C subspecies during rabbit corneal epithelial wound healing. *Suppl Invest Ophthalmol Vis Sci* 32:1246, 1991.
370. **Bazan NG**, Gordon WC, Rodriguez de Turco EB: Delivery of **docosahexaenoic acid** (³H-22:6) by the liver to the retina in the frog. *Suppl Invest Ophthalmol Vis Sci* 32:701, 1991.
371. Cluzel JM, Rubin RM, **Bazan NG**: Uptake and metabolism of platelet-activating factor (PAF) by the remodeling pathway in the eye. *Suppl Invest Ophthalmol Vis Sci* 32:678, 1991.
372. Gordon WC, Rodriguez de Turco EB, Peyman GA, **Bazan NG**: Uptake and distribution of **docosahexaenoic acid** (³H-22:6 n-3) in detached and attached human retina. *Suppl Invest Ophthalmol Vis Sci* 32:702, 1991.
373. Martin RE, Rodriguez de Turco EB, **Bazan NG**: Systemic alterations in **docosahexaenoic acid** (22:6) metabolism in the retinal degeneration (*rd*) mouse. *Suppl Invest Ophthalmol Vis Sci* 32:703, 1991.
374. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Modulation of uptake and metabolism of ³H-DHA in retina as a function of extracellular concentration of free DHA. *Suppl Invest Ophthalmol Vis Sci* 32:702, 1991.
375. Rubin RM, Cluzel JM, **Bazan NG**: Platelet-activating factor (PAF) acetylhydrolase in ocular tissues: Possible protective role in inflammation. *Suppl Invest Ophthalmol Vis Sci* 32:1187, 1991.
376. Baudouin C, Fredj D, Brignole F, **Bazan NG**, Peyman GA: Growth factors in vitreous, epiretinal membranes, and subretinal fluid in proliferative vitreoretinopathy. Amer Acad of Ophthal 1991

- (submitted).
377. Panetta T, Kline RM, **Bazan NG**, Schwartz ML, Veith FJ: The role of midbrain ischemia in neurogenic hypertension: A new rat model for investigation. *Surgical Forum* 1991.
378. **Bazan NG**, Rodriguez de Turco EB: Involvement of phospholipase A₂ and platelet-activating factor in the responses of the brain to ischemia and convulsions: A target for therapeutic drug action. IPSEN Workshop, April 20-21, 1991, Montreux, France.
379. **Bazan NG**, Doucet JP: Phospholipase A₂ activation, platelet-activating factor, and expression of cell-signaling genes. *Phospholipids and Signal Transduction Conference*, May 29-June 2, 1991, Wiesbaden, Germany.
380. **Bazan NG**: Phospholipid degradation, second messengers, and activation of cell-signaling genes. *International Society of Cerebral Blood and Metabolism (BRAIN-91)*, June 1-6, 1991, Miami, FL.
381. Rihn L, Vissioli F, Rodriguez de Turco E, Kreisman N, **Bazan NG**: Free fatty acid and diacylglycerol levels are related to cerebral oxygenation during recurrent seizures. *Neurotransmitter Satellite Symposium (BRAIN-91) "The Role of Neurotransmitters in Brain Injury,"* June 7-9, 1991, Key West, FL.
382. Rodriguez de Turco EB, Gordon WC, Martin RE, **Bazan NG**: Liver supply and delivery of docosahexaenoic acid to photoreceptor cells and other neural cells: Systemic alterations in retinal degenerative diseases. *Satellite Meeting of the 13th International Society for Neurochemistry, "Neurobiology of Essential Fatty Acids,"* July 10-12, 1991, Cairns, Australia.
383. Yavin E, Kuniewski B, **Bazan NG**, Harel S: Regulation of arachidonic acid metabolism in the perinatal brain during development and under ischemic stress. *Satellite Meeting of the 13th International Society for Neurochemistry, "Neurobiology of Essential Fatty Acids,"* July 10-12, 1991, Cairns, Australia.
384. **Bazan NG**, Marcheselli VL, Doucet J, Allan G: Phospholipid degradation, second messengers, and activation of cell-signaling genes. *Satellite Meeting of the 13th International Society for Neurochemistry, "Neurobiology of Essential Fatty Acids,"* July 10-12, 1991, Cairns, Australia.
385. Bazan HEP, Hurst JS, **Bazan NG**: The platelet-activating factor precursor choline phospholipids of the retina enriched in docosahexaenoate. *Satellite Meeting of the 13th International Society for Neurochemistry "Neurobiology of Essential Fatty Acids,"* July 10-12, 1991, Cairns, Australia.
386. Gordon WC, Rodriguez de Turco EB, Peyman GA, **Bazan NG**: Perturbation in omega-3 fatty acid content and ³H-DHA metabolism induced by detachment of human retina. *Satellite Meeting of the 13th International Society for Neurochemistry "Neurobiology of Essential Fatty Acids,"* Cairns, Australia, July 10-12, 1991.
387. Braquet P, **Bazan NG**: Immediate-early genes: PAF activates transcription of c-fos and c-jun. *2nd International Symposium of Molecular Biology of Hematopoiesis*, Innsbruck, Austria, July 14-18, 1991.
388. **Bazan NG**: Second messengers and cell signaling genes. *International Symposium of the 13th International Society for Neurochemistry, "Molecular Events in Neurotransmission,"* July 20, 1991, Sydney, Australia.
389. **Bazan NG**: Neuronal cell signal transduction and gene expression in response to injury and experimental epilepsy. *Fifth International Symposium MSNR 91, "New Frontiers in the Biochemistry and Biophysics of Stroke, Neurotrauma and Other Neurological Disorders,"* September 1-8, 1991, Bristol, England.
390. Allan G and **Bazan NG**: Effects of lithium on tyrosine hydrolase gene expression in PC12 cells. *Soc Neurosci* 17:1457, 1991.
391. Clark GD, Happel LT, Zorumski CF, **Bazan NG**: Platelet-activating factor augments excitatory synaptic transmission in cultured rat hippocampal neurons. *Soc Neurosci* 17:951, 1991.
392. Cluzel J, Doly M, Torbat D, **Bazan NG**: Autoradiographic and biochemical studies of platelet-activating factor in rat and frog retina. *Soc Neurosci* 17:95, 1991.

393. Doucet JP, Marcheselli VL, **Bazan NG**: Triazolobenzodiazepine-based antagonism of platelet-activating factor and induction of *fos* expression in human SH-SY5Y neuroblastoma cells. *Soc Neurosci* 17:170, 1991.
394. Feuerstein GZ, **Bazan NG**, Piomelli D, Bliss TVP: Symposium, "Lipid Mediators in Synaptic Transduction of Neuronal Cells: Physiological and Pathological Implications." *Soc Neurosci* 17:1470, 1991.
395. Hurst JS, Bazan HEP, **Bazan NG**: The isolation of diradyl choline phosphoglycerides, including the precursor of platelet-activating factor, from retina. *Soc Neurosci* 17:1564, 1991.
396. Marcheselli VL, Doucet JP, **Bazan NG**: Platelet-activating factor is a mediator of *fos* expression induced by a single seizure in rat hippocampus. *Soc Neurosci* 17:349, 1991.
397. Martin RE, **Bazan NG**: Delivery of **docosahexaenoic acid** (22:6) to membrane phospholipids during synaptogenesis. *Soc Neurosci* 17:36, 1991.
398. Visioli F, Rihn L, Rodriguez de Turco E, Kreisman N, **Bazan NG**: Studies of cerebral O₂ levels, free **fatty acids**, and diacylglycerol pools in rat hippocampus and brain cortex during sustained seizures. *Soc Neurosci* 17:541, 1991.
399. **Bazan NG**: Significado de segundos mensajeros durante el daño cerebral: Papel potencial en la modulación de la transcripción de genes tempranos. IV Reunión Nacional de la Sociedad Argentina de Neuroquímica (S.A.N.), Córdoba, Argentina, November 3-5, 1991.
400. Pechen de D'Angelo, Rodriguez de Turco EB, Gordon WC, Cluzel JM, **Bazan NG**: Formación de PAF en células del epitelio pigmentoso de la retina (RPE). Sesión Segundos Maensajeros, SAIB, Córdoba, Argentina, 1991.
401. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: Active uptake of [³H]DHA by neural and non-neuronal tissues, and subsequent selective retention by the retina in the frog. *Trans Amer Soc Neurochem* 23:203, 1992.
402. Marcheselli VL, **Bazan NG**: ECS-induced *zif-268* in hippocampus is inhibited by a PAF antagonist. *Trans Amer Soc Neurochem* 23:255, 1992.
403. Visioli F, Lapetina EG, **Bazan NG**: Electroconvulsive shock activates a ras-related G-protein in the rat brain. *Trans Amer Soc Neurochem* 23:192, 1992.
404. **Bazan NG**, Rodriguez de Turco EB, Richardson FO, Gordon WC: Retinal pigment epithelium contributes to the conservation of **docosahexaenoic acid** by photoreceptor cells. *Suppl Invest Ophthalmol Vis Sci* 33:914, 1992.
405. Cohen RA, Gebhardt BM, Braquet P, **Bazan NG**: Treatment of corneal allografts with a platelet-activating factor (PAF) antagonist inhibits eosinophilia and vascularization. *Suppl Invest Ophthalmol Vis Sci* 33:983, 1992.
406. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Ultrastructural and light microscopy autoradiography or [³H]DHA-containing phagosomes in the RPE. *Suppl Invest Ophthalmol Vis Sci* 33:1204, 1992.
407. Martin RE, Rodriguez de Turco EB, Gordon WC, Acland GM, Aguirre GVMD, **Bazan NG**: **Docosahexaenoic acid (DHA)** metabolism in poodles with progressive rod-cone degenerations (*prcd*). *Suppl Invest Ophthalmol Vis Sci* 33:1066, 1992.
408. Rodriguez de Turco EB, Gordon WC, Parkins N, **Bazan NG**: Contribution of *de novo* and turnover pathways to the synthesis of **DHA**-lipids in frog retinal cells. *Suppl Invest Ophthalmol Vis Sci* 33:1184, 1992.
409. Santos FF, Rodriguez de Turco EB, Gordon WC, Peyman G, **Bazan NG**: Perturbation in **docosahexaenoic acid** metabolism in rabbit retina due to experimental detachment. *Suppl Invest Ophthalmol Vis Sci* 33:859, 1992.
410. Strand VC, **Bazan NG**: Supply of **docosahexaenoic acid**-containing lipoproteins to the retina: The role of the liver in the miniature poodle. *Suppl Invest Ophthalmol Vis Sci* 33:1189, 1992.
411. Tao Y, Bazan HEP, **Bazan NG**: Platelet-activating factor (PAF) and wounding increase the

- expression of immediate-early genes (IEG) in the rabbit cornea. *Suppl Invest Ophthalmol Vis Sci* 33:1992.
412. **Bazan NG:** Supply of **docosahexaenoic acid** to the developing synapses and photoreceptors. Third International Congress on Essential **Fatty Acids** and Eicosanoids, Adelaide, Australia, March 1-5, 1992.
413. **Bazan NG:** Alterations in the metabolism and supply of an essential **fatty acid** to photoreceptor cells in retinal degenerative diseases. Simposio Internazionale Retinite Pigmentosa Conoscenze Attuali e Prospettive, Napoli, Italy, April 13-15, 1992.
414. Prakash O, Wang T-Y, Zhang D, Coleman R, Gordon W, Hill JM, **Bazan NG:** *In vivo* activation of HIV-1 ltr in ocular tissues of transgenic mice by UV light. RNA Tumor Viruses, Cold Spring Harbor, NY, May 19-24, 1992.
415. **Bazan NG:** Impairments in membrane polyunsaturated **fatty acids** (PUFA) in inherited retinal degenerations. *Clinical Neuropath* 11(3):157, 1992.
416. **Bazan NG:** Regulation of the supply of polyunsaturated **fatty acids** (PUFA) during synaptogenesis and photoreceptor cell development. European Society for Pediatric Research Annual Meeting, Uppsala, Sweden, June 14-17, 1992.
417. **Bazan NG**, Rodriguez de Turco EB: Pathways for the conservation of **docosahexaenoic acid** in photoreceptors and synapses. First Pacific Rim International Conference on **Fatty Acid**, Victoria, Canada, June 18, 1992.
418. **Bazan NG:** The role of lipid second messengers in brain injury. International Symposium on Pharmacology of Cerebral Ischemia, July 20-22, 1992, Marburg, Germany.
419. **Bazan NG**, Clark G: A novel presynaptic receptor that modulates the release of excitotoxic neurotransmitters. International Symposium on Pharmacology of Cerebral Ischemia, July 20-22, 1992, Marburg, Germany.
420. **Bazan NG**, Clark G: The activation of phospholipase A₂ (PLA₂) and release of arachidonic acid (AA) and other lipid mediators at the synapse. The 8th International Conference on Prostaglandins and Related Compounds, Montreal, Canada, July 26-31, 1992.
421. **Bazan NG**, Doucet JP: Acetylcholine induction of *zif/268* immediate-early gene is transduced by platelet-activating factor in a neural cell line. Cholinergic Neurotransmission: Function and Dysfunction, July 26-30, 1992, Montreal, Canada.
422. **Bazan NG:** Impairments in **docosahexaenoic acid** metabolism in inherited retinal degeneration. The 5th Symposium on Retinal Degeneration, Costa Smeralda, Sardinia, September 16-20, 1992.
423. **Bazan NG**, Rodriguez de Turco EB: Pathways for the conservation of **docosahexaenoic acid** in the retina. The 10th International Congress on Eye Research, Stress, Italy, September 21-26, 1992.
424. Bazan HEP, Hurst J, Cohen R, Braquet P, **Bazan NG:** The PAF antagonist, BN 52021, delays cornea graft rejection and affects arachidonic acid (AA) metabolism. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.
425. Bazan HEP, Tao Y, **Bazan NG:** Platelet-activating factor (PAF) induces the expression of c-fos, c-jun and collagenase in rabbit corneal epithelia. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.
426. **Bazan NG:** Platelet-activating factor is a synapse messenger and an intracellular modulator of gene expression. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.
427. **Bazan NG**, Doucet JP: Immediate-early genomic response to PAF in NG108-15 neurohybrid cells in sensitive to an intracellular PAF antagonist. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.
428. Clark GD, **Bazan NG:** The role of PAF in the release of excitotoxic neurotransmitters. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.

429. Marcheselli VL, **Bazan NG**: Inhibition of intracellular PAF binding sites reduces in a concentration-dependent manner mRNA expression of *zif*-268 in rat brain cortex after a single electroconvulsive shock. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.
430. Bazan HEP, Hurst J, Cohen R, Braquet P, **Bazan NG**: The PAF antagonist, BN 52021, delays cornea graft rejection and affects arachidonic acid (AA) metabolism. Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT, September 22-25, 1992.
431. **Bazan NG**: Alterations in the metabolism and supply of an essential **fatty acid** to photoreceptor cells in retinal degenerative diseases. Ocular Cell and Molecular Biology Symposium, Dallas, TX, October 17-18, 1992.
432. **Bazan NG**, Doucet JP: Signal transduction and transcription modulation by lipid second messengers. Ocular Cell and Molecular Biology Symposium, Dallas, TX, October 17-18, 1992.
433. **Bazan NG**, Rodriguez de Turco, Richardson FO, Gordon WC: Conservation of **docosahexaenoic acid** by the photoreceptor-retinal pigment epithelial cell system. Ocular Cell and Molecular Biology Symposium, Dallas, TX, October 17-18, 1992.
434. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: **Docosahexaenoic acid (DHA)** uptake and distribution in photoreceptors and retinal pigment epithelium demonstrated by EM autoradiography. Ocular Cell and Molecular Biology Symposium, Dallas, TX, October 17-18, 1992.
435. Rodriguez de Turco EB, Martin RE, Gordon WC, Parkins NE, **Bazan NG**: Cellular biology of **docosahexaenoic acid (DHA)** metabolism with progressive rod-cone degenerations. Ocular Cell and Molecular Biology Symposium, Dallas, Texas, October 17-18, 1992.
436. Santos FF, Peyman GA, Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Comparison of **docosahexaenoic acid (DHA)** metabolism between normal and detached human and rabbit retinas. Amer Acad Ophthalmol, November, 1992.
437. Martin RE, Hill JM, **Bazan NG**: Viral latency and GAP-43: Changing enrichment of a growth associated protein wound healing and viral infection. *Soc Neurosci* 18:1992.
438. Kato K, Clark GD, Clifford DB, Zorumski CF: Platelet-activating factor as a potential messenger in long-term potentiation. *Soc Neurosci* 18:1992.
439. Martin RE, Hill JM, **Bazan NG**: Herpes simplex virus-1 (HSV-1) latency increases enrichment of a nerve growth associated protein (GAP-43) in cornea and alters responses in wound healing. International Conference on Herpetic Eye Diseases, November 20-24, 1992, New Orleans, LA.
440. Visioli F, Rodriguez de Turco E, Kreisman N, **Bazan NG**: Cortical O₂ correlates to membrane lipid degradation during recurrent seizures. *Trans Amer Soc Neurochem* 24(1):342, 1993.
441. Visioli F, Kreisman N, Rodriguez de Turco E, Rihn L, **Bazan NG**: Interictal activity affects cortical FFA and DAG levels during recurrent seizures in rats. *FASEB J* 7(4):A629, 1993.
442. Martin RE, **Bazan NG**: Systemic distribution of a **fatty acid (docosahexaenoic acid DHA)** that is highly enriched in excitable membranes. *FASEB J* 7(4):A208, 1993.
443. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: The retinal pigment epithelium plays a central role in **docosahexaenoic acid** trafficking. *FASEB J* 7(4):A171, 1993.
444. Mukherjee PK, **Bazan NG**: Cell specific activation of *zif*/268 promotor by platelet-activating facto in transfected NG108-15 and SH-SY5Y cells. *FASEB J* 7(4):A470, 1993.
445. Doucet JP, **Bazan NG**: Muscarinic induction of *zif*/268 immediate-early gene in NG108-15 cells in mediated by platelet-activating factor. *FASEB J* 7(4):A184, 1993.
446. Strand VC, **Bazan NG**: Role of the liver in supply of docosahexaenoate-containing lipoproteins to the retina. *FASEB J* 7(4):A381, 1993.
447. Rodriguez de Turco EB, **Bazan NG**: Esterification of **DHA** via “de novo” pathway in frog retinal lipids. *FASEB J* 7(4):A381, 1993.
448. Chang SL, Ren T, **Bazan NG**, Zadina JE: Mechanisms of action of interleukin-1 in the rat hypothalamus. *FASEB J* 7(4): A184, 1993.

449. Mukherjee PK, Martin RE, Blake AM, **Bazan NG**: APO lipoprotein E (APO E) mRNA abundance is decreased in 3 day-old *rd* mouse retina. *Suppl Invest Ophthalmol Vis Sci* 34(4):740, 1993.
450. Martin RE, Rodriguez de Turco EB, Parkins NE, **Bazan NG**: Abnormal hepatic metabolism of **docosahexaenoic acid (DHA)** in the *prcd* dog. *Suppl Invest Ophthalmol Vis Sci* 34(4):740, 1993.
451. Rodriguez de Turco EB, Gordon WC, Morgan WK, **Bazan NG**: Heterogeneity in **docosahexaenoic acid** (22:6 omega 3) metabolism in different retinal regions of control and *prcd* dogs. *Suppl Invest Ophthalmol Vis Sci* 34(4):741, 1993.
452. Marcheselli VL, **Bazan NG**: Platelet activating factor (PAF) enhances glutamic acid release in the retina through a presynaptic receptor. *Suppl Invest Ophthalmol Vis Sci* 34(4):1048, 1993.
453. Tao Y, Bazan HEP, **Bazan NG**: Platelet activating factor (PAF) induces the expression of *c-fos*, *c-jun* and collagenases in rabbit corneal epithelium. *Suppl Invest Ophthalmol Vis Sci* 34(4):1302, 1993.
454. Gordon WC, Rodriguez de Turco EB, Richardson FO, **Bazan NG**: Marked differences in the liver supply and retinal/RPE uptake of palmitate (16:0) and docosahexaenoate (22:6). *Suppl Invest Ophthalmol Vis Sci* 34(4):1329, 1993.
455. **Bazan NG**, Rodriguez de Turco EB, Gordon WC, Parkins NE: Light stimulates **docosahexaenoic acid (DHA)** metabolism and mobilization in the liver; evidence for an eye-to-liver signal. *Suppl Invest Ophthalmol Vis Sci* 34(4):1329, 1993.
456. Goldschmidt P, Bazan HEP, Hurst J, Lin N, **Bazan NG**: Effects of n-acetyl aspartyl glutamic acid (NAAGA) in rabbit cornea anterior segment inflammation. *Suppl Invest Ophthalmol Vis Sci* 34(4):1406, 1993.
457. Cohen RA, Bazan HEP, **Bazan NG**: Platelet activating factor induces corneal epithelial ulcers in the rabbit. *Suppl Invest Ophthalmol Vis Sci* 34(4):1407, 1993.
458. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: The role of the liver and retinal pigment epithelium (RPE) in the supply, selective uptake and conservation of **docosahexaenoic acid (DHA)** in photoreceptor cells. 1st International Congress of the ISSFAL (International Society for the Study of **Fatty Acids** and Lipids) in Lugano, Switzerland, June 30-July 3, pp 61, 1993.
459. Visioli F, Kreisman NR, Rodriguez de Turco EB, **Bazan NG**: Brain lipid metabolites during recurrent seizures: A physiological approach. 1st International Congress of the ISSFAL (International Society for the Study of **Fatty Acids** and Lipids) in Lugano, Switzerland, June 30-July 3, pp 64, 1993.
460. **Bazan NG**: Neural cell signal transduction: Events that modulate the formation of excitotoxins and gene expression. 6th International Symposium on "New Frontiers in the Biochemistry and Biophysics on Diagnosis and Treatment of Stroke, Neurotrauma and Other Neurological Diseases" in Martin, Slovakia, August 15-19, pp. 114-115, 1993.
461. **Bazan NG**, Rodriguez de Turco EB, Gordon WC, Martin RE, Strand VC: Pharmacological manipulation of unsaturated-phospholipid biosynthesis in photoreceptor cells: Implications in retinal degenerations. Symposium on Ocular Pharmacology in Novi, MI, August 8-10, 1993.
462. **Bazan NG**, Marcheselli VL, Mukherjee PK, Allan G: The platelet-activating factor intracellular signaling pathway couples stimulation with immediate-early gene expression. 14th Biennial Meeting of the International Society for Neurochemistry in Montpellier, France, August 22-27, 1993.
463. **Bazan NG**, Clark GD, Marcheselli VL: Regulation of release of excitatory amino acids by a novel presynaptic platelet-activating factor receptor. 14th Biennial Meeting of the International Society for Neurochemistry in Montpellier, France, August 22-27, 1993.
464. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: The hepatic supply and the selective uptake and recycling ability of retinal pigment epithelium (RPE) conserves **docosahexaenoic acid (DHA)** in photoreceptor cells. 14th Biennial Meeting of the International Society for Neurochemistry in Montpellier, France, August 22-27, 1993.

465. **Bazan NG**, Marcheselli VL: Synaptic and intracellular platelet-activating factor (PAF) binding sites in brain. 14th Biennial Meeting of the International Society for Neurochemistry in Montpellier, France, August 22-27, 1993.
466. **Bazan NG**, Kato K, Zorumski CF, Clark GD: PAF enhances excitatory amino acid release and may be a mediator of long-term potentiation. Satellite of the 14th Meeting of the International Society for Neurochemistry in Montpellier, France, August 28-September 2, 1993.
467. Clark GD, Kato K, Zorumski CF, Marcheselli VL, **Bazan NG**: Platelet-activating factor as a retrograde messenger in hippocampal long term potentiation. Satellite of the 14th Meeting of the International Society for Neurochemistry in Montpellier, France, August 28-September 2, 1993.
468. Marcheselli VL, **Bazan NG**: Intracellular platelet-activating factor binding sites and immediate-early gene expression in hippocampus during seizures. Satellite of the 14th Meeting of the International Society for Neurochemistry in Montpellier, France, August 28-September 2, 1993.
469. **Bazan NG**, Prouet P, Marcheselli VL: A PAF antagonist blocks PAF-induced glutamic acid release from dissociated retinal cells as well as from retinal synaptosomes. *Soc Neurosci* 23:1414, 1993.
470. **Bazan NG**, Rodriguez de Turco E, Bazan HEP, Gordon WC: The supply and the selective uptake and recycling ability of retinal pigment epithelium (RPE) conserves **docosahexaenoic acid (DHA)** in photoreceptor cells. *Soc Neurosci* 23:616, 1993.
471. Marcheselli VL, **Bazan NG**: Platelet-activating factor (PAF) stimulates glutamic acid release from hippocampal synaptosomes. *Soc Neurosci* 23:1779, 1993.
472. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Retinal docosahexaenoate trafficking and preferential uptake by photoreceptors. The Thirty Third Annual Meeting of American Society of Cell Biology, New Orleans, LA, December 11-15, 1993.
473. Marcheselli VL, **Bazan NG**: Platelet-activating factor presynaptic receptor activation induces glutamic acid release in the retina, a mechanism associated with retinal damage. The Thirty Third Annual Meeting of American Society of Cell Biology, New Orleans, LA, December 11-15, 1993.
474. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Active *de novo* synthesis of **DHA**-phosphatidylinositol in the retina. The Thirty Third Annual Meeting of American Society of Cell Biology, New Orleans, LA, December 11-15, 1993.
475. Strand VC, **Bazan NG**: Docosahexaenoate (**DHA**) -containing lipoprotein formation by primary hepatocytes. The Thirty Third Annual Meeting of American Society of Cell Biology, New Orleans, LA, December 11-15, 1993.
476. Tao Y, Bazan HEP, **Bazan NG**: Differential effect of platelet-activating factor (PAF) on the expression of metalloproteinases (MMP) in corneal epithelium. The Thirty Third Annual Meeting of American Society of Cell Biology, New Orleans, LA, December 11-15, 1993.
477. **Bazan NG**, Marcheselli VL, Mukherjee P: The platelet-activating factor intracellular signaling pathway couples stimulation with gene expression. Keystone Symposium on "Protein Kinase C: Regulation, Structure, Function and Role in Human Disease" in Taos, NM, February 26-March 4, 1994.
478. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: **Docosahexaenoic acid** in the cone-dominant lizard retina: Metabolic and cell biological differences with rod-dominant retinas. *Suppl Invest Ophthalmol Vis Sci* 35(4):1520, 1994.
479. Jiao X, Lee J, Rodriguez de Turco EB, **Bazan NG**, Chader GJ: Tissue Distribution of **docosahexaenoic acid** binding proteins in poodles with progressive rod-cone degeneration (PRCD). *Suppl Invest Ophthalmol Vis Sci* 35(4):1611, 1994.
480. Strand VC, **Bazan NG**: Supply of **docosahexaenoic acid**-containing lipoproteins to photoreceptor cells. *Suppl Invest Ophthalmol Vis Sci* 35(4):1957, 1994.
481. Tao Y, Bazan HEP, **Bazan NG**: Platelet-activating factor (PAF) induces the expression of urokinase-type, but not tissue-type, plasminogen activator in rabbit corneal epithelium. *Suppl Invest Ophthalmol Vis Sci* 35(4):1457, 1994.

482. Marcheselli VL, **Bazan NG**: A PAF antagonist or dexamethasone inhibits the seizure-triggered sustained upregulation of the inducible prostaglandin synthase in the hippocampus. *Soc Neurosci* 20:433.9, 1994.
483. Gordon WC, Bazan HEP, **Bazan NG**: Docosahexaenoic acid uptake in the cone-dominant lizard retina. *Soc Neurosci* 20:397.4, 1994.
484. Lukiw WJ, McLachlan DRC, **Bazan NG**: Relative RNA message abundance in control and Alzheimer's disease (AD) affected human neocortex. *Soc Neurosci* 20:100.12, 1994.
485. Muhkerjee PK, Smith DL, **Bazan NG**: Okadeic acid potentiates and genistein inhibits the platelet-activating factor (PAF) enhancement of inducible prostaglandin synthase. *Soc Neurosci* 20:536.18, 1994.
486. Lukiw WJ, **Bazan NG**, McLachlan DRC: Relative RNA message abundance in control and Alzheimer's disease (AD) affected human neocortex. Schmitt Neurological Sciences Symposium, "The Cytoskeleton in Alzheimer's disease," May 21-23, 1994.
487. Lukiw WJ, Wong L, Rogaev EJ, George-Hyslop PSt., **Bazan NG**, McLachlan DRC: H-1 DNA interaction in the proximal promoter of the human neurofilament light (HNF-L) chain gene. Schmitt Neurological Sciences Symposium, "The Cytoskeleton in Alzheimer's disease," May 21-23, 1994.
488. Kato K, **Bazan NG**: Metabotropic glutamate receptors activate irreversible epileptic discharge in the rat hippocampus and facilitate low-MG²⁺-induced long-term potentiation (LTP). *Epilepsia* 35(8):41, 1994.
489. Lukiw WJ, Marcheselli VL, **Bazan NG**: DNA-binding proteins at the promotor of the inducible TIS10/PGS-2 gene modified by seizures or ischemia in the hippocampus. *Epilepsia* 35(8):43, 1994.
490. Marcheselli VL, **Bazan NG**: Sustained upregulation of inducible prostaglandin synthase expression in hippocampus by a single seizure: inhibition by a PAF antagonist. *Epilepsia* 35(8):138, 1994.
491. Moises J, Allan G, Marcheselli VL, Mandhare V, **Bazan NG**: A PAF antagonist inhibits the expression of hippocampal immediate early genes in a kindling model of epilepsy. *Epilepsia* 35(8):139, 1994.
492. Rodriguez de Turco EB, Katsura K, Kristian T, Folgergrova J, Siesjö BK, **Bazan NG**: Post-ischemic brain response to seizures: Calcium metabolism and accumulation of free fatty acids (FFA) and diacylglycerols (DAG). *Epilepsia* 35(8):5, 1994.
493. Visioli F, Rodriguez de Turco EB, Parkins N, **Bazan NG**: Stimulation of polyphosphoinositides metabolism in the rat hippocampus by successive daily electroconvulsive shock. *Epilepsia* 35(8):83, 1994.
494. Whittaker RL, Rodriguez de Turco EB, Richardson FO, **Bazan NG**: Delayed accumulation of free arachidonic acid in rat hippocampus after a single seizure. *Epilepsia* 35(8):42 1994.
495. **Bazan NG**: Signal transduction and gene expression in ocular inflammatory responses. First Annual meeting of the Association for Ocular Pharmacology and Therapeutics, January 26-29, 1995, New Orleans, LA.
496. **Bazan NG**: Platelet-activating factor is a synapse messenger and a modulator of gene expression. 26th Annual American Society for Neurochemistry, March 5-9, 1995, Santa Monica, CA.
497. Li M, Xie J, **Bazan N**, Giles T, Given M, Greenberg S: Platelet-activating factor is not responsible for endotoxin-induced up-regulation of nitric oxide synthase mRNA. *FASEB J* 9:A876, 1995.
498. Bazan HEP, Tao Y, **Bazan NG**: Possible mechanisms of signal transduction in the activation of urokinase-type plasminogen activator (uPA) by platelet-activating factor (PAF). *Suppl Invest Ophthalmol Vis Sci* 36:S571, 1995.
499. **Bazan NG**, Strand V, Parkins N, Rodriguez de Turco EB: Changes in docosahexaenoic acid (DHA) in plasma and hepatocyte-produced lipoproteins from dogs with progressive rod-cone degeneration (*prcd*). *Suppl Invest Ophthalmol Vis Sci* 36:S892, 1995.
500. Cohen R, Beuerman RW, Gebhardt BM, **Bazan NG**: Comparison of the effect of topical nonsteroidal anti-inflammatory drugs with patching on corneal epithelial wound healing. *Suppl*

- Invest Ophthalmol Vis* 36:S696, 1995.
499. Ershov AV, Lukiw WJ, **Bazan NG**: Phagocytosis of rod outer segments (ROS) triggers the expression of zinc fingers-containing transcription factor *zif*-268 in cultured rat retinal pigment epithelium (RPE) cells. *Suppl Invest Ophthalmol Vis* 36:S815, 1995.
500. Gordon WC, Rodriguez de Turco, **Bazan NG**: Rod photoreceptor renewal depends on **docosahexaenoic acid** supply. *Suppl Invest Ophthalmol Vis* 36:S514, 1995.
501. Rodriguez de Turco, Deretic D, **Bazan NG**, Papermaster DS: Cotransport of **DHA**-phospholipids and rhodopsin on post-golgi vesicles to ros in frog photoreceptor. *Suppl Invest Ophthalmol Vis* 36:S404, 1995.
502. Tao Y, **Bazan NG**, Bazan HEP: Platelet-activating factor (PAF) increases prostaglandin synthase-2 (COX-2) gene expression in corneal epithelium. *Suppl Invest Ophthalmol Vis* 36:S573, 1995.
503. Zhang D, Hardy MN, Pecci-Saavedra J, Homayoun P, Gordon WC, **Bazan NG**: Light induced cell death in *in vitro* retinas of the rat. *Suppl Invest Ophthalmol Vis* 36:S917, 1995.
504. **Bazan NG**: Excitable membrane-derived injury mediators: Glutamate release and regulation of gene expression. XV Washington International Spring Symposium. Neurodegenerative Diseases '95: Molecular and Cellular Mechanisms, and Therapeutic Advances, Washington, DC, May 15-17, 1995.
505. Decoster MA, **Bazan NG**: Modulation of intracellular calcium dynamics in rat hippocampal neurons by platelet-activating factor. XV Washington International Spring Symposium. Neurodegenerative Diseases '95: Molecular and Cellular Mechanisms, and Therapeutic Advances, Washington, DC, May 15-17, 1995.
506. Kolko M, DeCoster MA, **Bazan NG**: Neurotoxicity and modulation of calcium dynamics in rat cortical neurons by phospholipases. XV Washington International Spring Symposium. Neurodegenerative Diseases '95: Molecular and Cellular Mechanisms, and Therapeutic Advances, Washington, DC, May 15-17, 1995.
507. Lukiw WJ, Marcheselli VL, Mukherjee PK, **Bazan NG**: Protein-DNA interactions in the proximal promoter of the inducible cyclooxygenase (COX-2) gene in hippocampus during experimental epilepsy and brain damage. XV Washington International Spring Symposium. Neurodegenerative Diseases '95: Molecular and Cellular Mechanisms, and Therapeutic Advances, Washington, DC, May 15-17, 1995.
508. Lukiw WJ, McLachlan DRC, **Bazan NG**: RNA message levels in normally aging- and in alzheimer's disease (AD) affected-human temporal lobe neocortex. XV Washington International Spring Symposium. Neurodegenerative Diseases '95: Molecular and Cellular Mechanisms, and Therapeutic Advances, Washington, DC, May 15-17, 1995.
509. **Bazan NG**: What do enhanced synaptic activity messengers and gene expression reveal about stroke and neurotrauma? 7th International Symposium "New Frontiers in the Biochemistry and Biophysics, Diagnosis and Treatment of Stroke Neurotrauma and Other Neurological Diseases," 15th ISN Satellite Symposium, Kurashiki, Japan, June 27-July 1, 1995.
510. **Bazan NG**: Bioactive lipids in the modulation of excitatory amino acid neurotransmitter release and of gene expression. Satellite Meeting of 15th ISN, "Lipid Messengers in the Nervous System," Tokyo, Japan, June 28-30, 1995.
511. **Bazan NG**: Lipid-derived second messengers in the regulation of gene expression. The Advanced School of Neurochemistry 2nd Biennial Course on "From Signal Transduction to Gene Expression," Okazaki, Japan, June 28-July 2, 1995.
512. **Bazan NG**: Phospholipase A₂ in neuronal plasticity. 15th ISN Biennial Meeting Symposium on "Phospholipases and Lipid Second Messengers in the Normal and Pathologic Brain," Kyoto, Japan, July 2-7, 1995.
513. **Bazan NG**: Platelet-activating factor in synaptic transmission. 15th ISN Biennial Meeting Workshop on "Phospholipases," Kyoto, Japan, July 2-7, 1995.

514. **Bazan NG**, Rodriguez de Turco EB, Gordon WC, Strand VL, Parkins N: Hepatocyte and lipoprotein abnormalities in progressive rod-cone degeneration (*prcd*). 95' ISN Satellite Symposium on "Retinal Degeneration and Regeneration," Kanazawa, Japan, July 8-9, 1995.
515. **Bazan NG**, Teather L, Packard MG: Bioactive lipids in excitatory synaptic transmission and neuronal plasticity. ISN Satellite Symposium on "Excitatory Amino Acid Signalling (EAAS 95)," Kyoto, Japan, July 15-18, 1995.
516. **Bazan NG**: Bioactive lipid and neuronal plasticity in neurodegenerative diseases. 655th Meeting of Biochemical Society, University of Manchester, Manchester, England, July 18-21, 1995.
517. **Bazan NG**, Tao Y, Hurst J, Bazan HEP: Modulation of the expression of the inducible prostaglandin synthase by platelet-activating factor in the corneal epithelium. Ocular Cell and Molecular Biology Symposium II, San Diego, CA, August 20-22, 1995.
518. Ershov AV, Lukiw WJ, **Bazan NG**: Phagocytosis-specific expression of transcription factors in normal and dystrophic rat retinal pigment epithelium (RPE) cells. Ocular Cell and Molecular Biology Symposium II, San Diego, CA, August 20-22, 1995.
519. Gordon WC, **Bazan NG**: Rod photoreceptor disc synthesis rate is affected by **docosahexaenoic acid** supply. Ocular Cell and Molecular Biology Symposium II, San Diego, CA, August 20-22, 1995.
520. **Bazan NG**: PAF modifies cell function and pathology by affecting gene expression. Fifth International Congress on Platelet-activating Factor and Related Lipid Mediators, Berlin, Germany, September 12-16, 1995.
521. DeCoster MA, Bazan HEP, **Bazan NG**: Platelet-activating factor induced intracellular calcium oscillations in rat hippocampal neurons. *Soc Neurosci* 21:1127, 1995.
522. Ershov AV, Lukiw WJ, Linn DM, **Bazan NG**: Specific phagocytosis triggers expression of immediate-early transcription factors in retinal pigment epithelium (RPE) cells. *Soc Neurosci* 21:1173, 1995.
523. Kolko M, DeCoster MA, Lambeau G, Lazdunski M, **Bazan NG**: Effect of secretory phospholipases A₂ and glutamate on viability of rat cortical neurons and calcium dynamics. *Soc Neurosci* 21:608, 1995.
524. Lukiw WJ, Marcheselli VL, Mukherjee PK, **Bazan NG**: Protein-DNA interactions in the promoter of the cyclooxygenase (COX2) primary response element in NG108-15 cells in rat and human brain. *Soc Neurosci* 21:830, 1995.
525. Marcheselli VL, **Bazan NG**: Inducible prostaglandin synthase and *zif-268* mRNA upregulation in vasogenic cerebral edema: Inhibition by a PAF antagonist. *Soc Neurosci* 21:1867, 1995.
526. Mukherjee P, DeCoster MA, **Bazan NG**: Platelet-activating factor is a messenger in kainate epileptogenesis-enhanced mitogen activated protein kinase activity in hippocampus. *Soc Neurosci* 21:1475, 1995.
527. Teather LA, Packard MG, **Bazan NG**: Effects of intra-caudate nucleus injection of platelet-activating factor and BN 52021 on memory. *Soc Neurosci* 21:1230, 1995.
528. Lukiw WJ, **Bazan NG**: Protein-DNA interactions in the cyclooxygenase (COX2) gene promoter during kainic acid-induced seizures in the hippocampus. *Epilepsia* 36(S4):120, 1995.
529. Mukherjee P, DeCoster MA, **Bazan NG**: Kainic acid-induced epileptogenesis increases mitogen activated protein kinase activity in hippocampus: Involvement of platelet-activating factor as a mediator. *Epilepsia* 36(S4):26, 1995.
530. Moises JP, Van Meter K, Gottlieb S, **Bazan NG**: The role of hyperbaric oxygen therapy in stroke: Middle cerebral artery occlusion as a model. LSUMC Research Day, Department of Medicine, New Orleans, LA, January 26, 1996.
531. **Bazan NG**, Marcheselli VL: Seizure-induced lasting transcriptional upregulation of prostaglandin H synthase-2 (COX-2) in hippocampus: Inhibition by a platelet-activating factor antagonist. American Society for Neurochemistry, March 2-6, 1996.

532. Homayoun P, Rodriguez de Turco EB, Soblosky J, Carey M, **Bazan NG**: Effect of experimental traumatic brain injury on regional levels of free **fatty acid** and diacylglycerol. American Society for Neurochemistry, March 2-6, 1996.
533. Martinez A, Martinez J, Gomez N, Cruz A, Palacios R, **Bazan NG**: Purification and characterization of profilin from sunflower pollen, antigenic cross-reactions. American Academy of Allergy Asthma and Immunology, New Orleans, LA, March 1996.
534. **Bazan NG**, Marcheselli VL, Moises J: Synaptic messengers, inflammatory mediators, and neuronal plasticity. The Second International Workshop on Maturation Phenomenon in Cerebral Ischemia-Neuronal Recovery and Plasticity, Tokyo, Japan, March 31-April 1, 1996.
535. Gordon WC, Marcheselli VL, **Bazan NG**: Retinal COX-2 induction by light precedes photoreceptor cell death. International Symposium on New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA, April 15-16, 1996.
536. Lin N, Popovich T, **Bazan NG**: Increased COX-2 expression in experimental uveitis. International Symposium on New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA, April 15-16, 1996.
537. Lukiw WJ, Marcheselli VL, **Bazan NG**: Human COX-2 promoter modulators. International Symposium on New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA, April 15-16, 1996.
538. Marcheselli VL, **Bazan NG**: Transcriptional upregulation of COX-2 in hippocampus by seizures. International Symposium on New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA, April 15-16, 1996.
539. Mukherjee P, Dixon D, Prescott S, Smith D, Lukiw W, **Bazan NG**: PAF induction of human COX-2 gene. International Symposium on New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA, April 15-16, 1996.
540. Tao Y, Bazan HEP, Decoster MA, **Bazan NG**: COX-2 gene expression and Ca^{2+} influx in corneal epithelial cells. International Symposium on New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, New Orleans, LA, April 15-16, 1996.
541. **Bazan NG**, Marcheselli VL, Rodriguez de Turco EB, Gordon WC: The early response gene cyclooxygenase-2 (COX-2) is selectively induced in rat retina at the onset of light damage. *Suppl Invest Ophthalmol Vis* 37:S1122, 1996.
542. Ershov AV, Rodriguez de Turco EB, Richardson F, **Bazan NG**: Phagocytosis of rod outer segments (ROS) triggers the arachidonic acid (AA) cascade in cultured rat retinal pigment epithelium (RPE) cells. *Suppl Invest Ophthalmol Vis* 37:S921, 1996.
543. Gordon WC, Beuckmann CT, Marcheselli VL, Kanaoka Y, Geraschenko DY, Eguchi N, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin type prostaglandin D synthase is located in retinal pigment epithelium. *Suppl Invest Ophthalmol Vis* 37:S385, 1996.
544. Lin N, Popovich T, Thompson H, Palacios-Pelaez R, **Bazan NG**: Prolonged anti-inflammatory effect of budesonide epimer R in experimental uveitis. *Suppl Invest Ophthalmol Vis* 37:S40, 1996.
545. Linn DM, DeCoster MA, **Bazan NG**: The effects of calcium channel blockers and PAF on calcium dynamics in DAPI and non-DAPI labeled cells in the rabbit retina. *Suppl Invest Ophthalmol Vis* 37:S629, 1996.
546. Marcheselli VL, Gordon WC, Stellingworth MA, Beuckmann CT, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin type prostaglandin D synthase is secreted into the interphotoreceptor matrix from the retinal pigment epithelium. *Suppl Invest Ophthalmol Vis* 37:S385, 1996.
547. Rodriguez de Turco EB, Deretic D, Parkins N, **Bazan NG**, Papermaster D: The effect of brefeldin on **DHA**-phospholipids trafficking in frog photoreceptor cells. *Suppl Invest Ophthalmol Vis* 37:S800, 1996.
548. Tao Y, Bazan HEP, DeCoster MA, **Bazan NG**: Extracellular Ca^{2+} is required for the induction of COX-2 by PAF in corneal epithelium. *Suppl Invest Ophthalmol* 37:S862, 1996.

549. Linn DM, DeCoster MA, **Bazan NG**: Effects of PAF and PAF antagonists on calcium dynamics in mammalian retinal slices. Eleventh Annual LSUMC Graduate Research Day, New Orleans, LA, May 10, 1996.
550. **Bazan NG**, Cinar NH, Marcheselli VL: Lipid second messengers and the upregulation of inducible prostalandin synthase-2 triggered by vasogenic cerebral edema. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
551. Cinar H, Decoster MA, **Bazan NG**: Modulation of chronic neurotoxicity by combined kainate and glutamate treatment of hippocampal neurons. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
552. Decoster MA, **Bazan NG**: Platelet-activating factor modulates intracellular calcium dynamics in rat hippocampal neurons. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
553. Ershov AV, Rodriguez de Turco EB, Richardson FO, **Bazan NG**: Arachidonic acid (AA) cascade activation and early response gene modulation during phagocytosis of rod outer segment (ROS) in cultured rat retinal pigment epithelium (RPE) cells. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
554. Gordon WC, Beuckmann CT, Marcheselli VL, Ershov AV, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin-type prostaglandin D synthase (PGDS) occurs within retinal pigment epithelium. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
555. Kolko M, Rodriguez de Turco EB, Decoster MA, **Bazan NG**: Modulation of calcium, neurotoxicity and arachidonic acid release by phospholipase A type II and glutamate *in vitro*. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
556. Lukiw WJ, **Bazan NG**: Changes in protein-DNA bining the cyclooxygenase-2 (COX-2) promoter accompany induction of COX-2 gene transcription. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
557. Marcheselli VL, Gordon WC, Cinar NH, Beuckmann CT, Urade Y, Hayaishi O, **Bazan NG**: Prostaglanin D synthase is rapidly translocated from the retinal pigment epithelium into the interphotoreceptor matrix, vitreous, and aqueous humor. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
558. Rodriguez de Turco EB, Marcheselli VL, Gordon WC, **Bazan NG**: The onset of light damage selectively induces the early response gene inducible cyclooxygenase in the rat retina. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
559. Tao Y, Bazan HEP, Decoster MA, **Bazan NG**: PAF induces cyclooxygenase (COX-2) gene expression in the corneal epithelium partially by a receptor-mediated calcium influx. The Joint Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA, June 2-6, 1996.
560. **Bazan NG**: Inflammatory signalling pathways in pharmacology of cerebral ischemia. 6th International; Symposium on Pharmacology of Cerebral Ischemia, Marburg, Germany, July 22-24, 1996.
561. Lukiw WJ, Rogaev EI, **Bazan NG**: Levels of 42 RNA messages in sporadic alzheimer's disease (AD) affected temporal lobe neocortex. Fifth International Conference on Alzheimer's Disease and Related Disorders, Osaka, Japan, July 24-29, 1996.
562. Ershov AV, Lukiw WJ, **Bazan NG**: Phagocytosis-specific expression of transcription factors in normal and dystrophic rat retinal pigment epithelium (RPE) cells. Second Annual Meeting of the Association of Ocular Pharmacology and Therapeutics (AOPT), Los Angeles, CA, August 15-17, 1996.

563. **Bazan NG**, Marcheselli VL, Gordon WC: The inducible prostaglandin synthase, an inflammatory response gene, is upregulated in the retina at the onset of light-triggered photoreceptor apoptosis. XII International Congress of Eye Research, Yokohama, Japan, September 29-October 4, 1996.
564. **Bazan NG**, Gordon WC, Marcheselli VL, Lukiw WJ, Duhault J, Koenig-Berard E, Linn D, DeCoster MA, Mukherjee P: Experimental models of retina microangiopathy, "Séminaire Annuel de Formation en Pharmacologie Expérimentale et Clinique," Paroi Vascularire et Diabète, Abbaye des Vaux de Cernay, October 24-26, 1996.
565. **Bazan NG**: The inflammatory mediator platelet-activating factor and the inducible prostaglandin synthase (COX) gene in CNS disease. SmithKline Beecham Pharmaceutical Symposium, Collegeville, PA, November 14, 1996.
566. Baker ML, Gebhardt BM, **Bazan NG**: Differential effect of platelet-activating factor on adhesion molecule expression by astrocytes and microglia. *Soc Neurosci* 22:1796, 1996.
567. Gordon WC, Marcheselli VL, Beuckmann CT, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin type prostaglandin D synthase in retinal pigment epithelium (RPE) is secreted into interphotoreceptor matrix (IPM). *Soc Neurosci* 22:124, 1996.
568. Linn DM, DeCoster MA, **Bazan NG**: Effects of PAF and PAF antagonists on calcium dynamics in mammalian retinal slices. *Soc Neurosci* 22:2017, 1996.
569. Marcheselli VL, Cinar HN, Stellingworth MA, **Bazan NG**: Seizures promote a rapid transcriptional upregulation of PGHS-2 in rat hippocampus, which inhibited by the PAF receptor antagonist BN 50730. *Soc Neurosci* 22:1439, 1996.
570. Popovich T, Lin N, Thompson H, Palacios-Palaez R, **Bazan NG**: Prolonged anti-inflammatory effect of budesonide epimer R in experimental uveitis. The National Student Research Forum, Galveston, TX.
571. **Bazan NG**, Marcheselli VL, Gordon WC, Zhang D: Enhanced expression of the inducible prostaglandin synthase gene precedes light-induced photoreceptor apoptosis. 1997 Keystone Symposia Conference on Ocular Cell and Molecular Biology, Tamarron, CO, January 7-12, 1997.
572. **Bazan NG**: PAF is a transcriptional activator of PGH synthase-2: Significance for neuronal survival after injury. 1997 Keystone Symposia Conference on Lipid Mediators: Recent Advances in Molecular Biology, Understanding of Regulation and Pharmacology, Keystone, CO, January 26-31, 1997.
573. **Bazan NG**: Injury messengers, transcription factors, and gene expression in status epilepticus. International Symposium on Status Epilepticus Mechanisms and Management, Santa Monica, CA, February 6-8, 1997.
574. **Bazan NG**: COX-2 in the brain and retina: Role in neuronal survival. 12th William Harvey Research Conference, "Selective COX-2 inhibitors: Pharmacology, Clinical Effects and Therapeutic Potential", Cannes, France, March 20-21, 1997.
575. **Bazan NG**, Marcheselli VL, Gordon WC, Harris T, Zhang D: Increased upregulation of the inducible prostaglandin synthase (COX-2) gene precedes light-induced photoreceptor apoptosis. Experimental Biology, New Orleans, LA, April 6-9, 1997.
576. DeCoster MA, Mukherjee PK, Black BS, Davis RJ, **Bazan NG**: Kainic acid (KA) activates JNK, p38 and the p42 mitogen-activated protein kinase (MAPK) in hippocampal neurons but not in hippocampal astrocyte cultures. Experimental Biology, New Orleans, LA, April 6-9, 1997.
577. Ogden F, DeCoster MA, **Bazan NG**: Recombinant platelet-activating factor acetylhydrolase (rPAFAH) decreases NMDA-induced apoptosis in primary hippocampal neurons. Experimental Biology, New Orleans, LA, April 6-9, 1997.
578. Marcheselli VL, Campbell F, DeCoster MA, **Bazan NG**: Platelet-activating factor (PAF), kainic or glutamate increase expression of the inducible prostaglandin H synthase-2 (COX-2) in primary hippocampal neurons. Experimental Biology, New Orleans, LA, April 6-9, 1997.
579. Mukherjee PK, DeCoster MA, Davis RJ, **Bazan NG**: Differential activation of p38, JNK, and

- mitogen-activated protein kinases (MAPKs) by platelet-activating factor (PAF), glutamate (GLU), and kainate (KA) in primary hippocampal neurons. Experimental Biology, New Orleans, LA, April 6-9, 1997.
580. Serou M, Marcheselli VL, DeCoster MA, **Bazan NG**: A secretory phospholipase A₂ (sPLA₂) receptor agonist induces expression of prostaglandin endoperoxide synthase-2 (COX-2) and of inducible nitric oxide synthase in hippocampal neuron but not glia. Experimental Biology, New Orleans, LA, April 6-9, 1997.
581. **Bazan NG**, Marcheselli VL, Gordon WC: Prostaglandin endoperoxide synthase-2 (COX-2) overexpression is an early event in light-induced rod photoreceptor cell apoptosis. *Suppl Invest Ophthalmol Vis Sci* 38:S719, 1997.
582. Ershov AV, **Bazan NG**: Phagocytosis of rod outer segments (ROS) triggers the expression of cyclooxygenase-2 (COX-2) in cultured rat retinal pigment epithelium (RPE) cells. *Suppl Invest Ophthalmol Vis Sci* 38:S1161, 1997.
583. Gordon WC, Marcheselli VL, Beuckmann, CT, Kanaoka Y, Eughi N, Gerashchenko DY, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin-type (glutathione-independent) prostaglandin D synthase (PGDS) is localized to RPE, iris, ciliary body and extracellular fluids within the eye. *Suppl Invest Ophthalmol Vis Sci* 38:S308, 1997.
584. Harris T, Gordon WC, Marcheselli VL, Rodriguez EB, **Bazan NG**: Light-induced prostaglandin endoperoxide synthase-2 (COX-2) expression is selectively concentrated in inner segments of rod photoreceptors. *Suppl Invest Ophthalmol Vis Sci* 38:S1028, 1997.
585. Lukiw WJ, Gordon WC, **Bazan NG**: Levels of transcription factor AP1-, AP2-, SP1-, GAS-, NFKB- and TFIID-DNA binding during rat retinal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 38:S611, 1997.
586. Marcheselli VL, Aoki J, Hardy M, Allan G, Inoue K, Arai H, **Bazan NG**: α , β and γ platelet-activating factor (PAF) acetylhydrolase subunits expression in rat retina. *Suppl Invest Ophthalmol Vis Sci* 38:S1030, 1997.
587. Mukherjee PK, Shima DT, Ng YS, D'Amore PA, **Bazan NG**: Platelet-activating factor (PAF) induces the expression of vascular endothelial growth factor (VEGF). *Suppl Invest Ophthalmol Vis Sci* 38:S357, 1997.
588. Varner L, Bazan HEP, Chandrasekher G, Lukiw W, **Bazan NG**: Changes in the expression of PKC isoforms of corneal epithelium during wound healing. Inhibition of corneal repair by PKC α antisense. *Suppl Invest Ophthalmol Vis Sci* 38:S922, 1997.
589. **Bazan NG**: Apoptosis in rod photoreceptors: significance to retinitis pigmentosa and age related macular degeneration. First Anniversary of Institut of Oftalmologico de Alicante and Jorge Alió Foundation, Alicante, Spain, May 29, 1997.
590. **Bazan NG**, Marcheselli VL, DeCoster MA, Ogden F, Lukiw W: Inflammatory messengers and COX-2 in neuronal cell death and Alzheimer's disease (AD). Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
591. DeCoster MA, **Bazan NG**: Modulation of neuronal sensitivity to glutamate by secretory phospholipases A₂ (sPLA₂s). Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
592. Lukiw WJ, **Bazan NG**: Cyclooxygenase 2 (COX2) messenger RNA abundance, stability and hypervariability in sporadic Alzheimer's disease. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and

- Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
593. Lukiw WJ, Rogaei EI, **Bazan NG**: Synaptic and cytoskeletal RNA messenger levels in alzheimer neocortex. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
594. Lukiw WJ, Mukherjee PK, Dixon D, Prescott S, **Bazan NG**: Structure and 5' functional analysis of the human cyclooxygenase 2 (COX2) gene. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
595. Mukherjee PK, DeCoster MA, Davis RJ, **Bazan NG**: Platelet-activating factor (PAF) or kainate (KA) activation of P-38, JNK-1, and mitogen-activated protein kinases (MAPKs) follow different pathways than glutamate (GLU) in primary hippocampal neurons. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
596. Ogden F, DeCoster MA, **Bazan NG**: Neuroprotection by recombinant platelet-activating factor acetylhydrolase (rPAF-AH) on NMDA-Induced excitotoxicity in hippocampal neurons. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
597. Rodriguez de Turco EB, Richardson F, Kolko M, Lambeau G, Lazdunski M, **Bazan NG**: Synergistic breakdown of synaptic phosphatidylcholine and phosphatidylethanolamine by SPLA₂ and glutamate during cortical neuronal cell death. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
598. Serou M, Marcheselli VL, DeCoster MA, **Bazan NG**: A secretory phospholipase A₂ (sPLA₂) receptor agonist induces expression of prostaglandin endoperoxide synthase-2 (COX-2) in primary cortical neurons but not glial cultures. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "8th International Symposium on Stroke, Neurotrauma and Other Neurological Diseases," New Orleans, LA, July 9-13, 1997.
599. **Bazan NG**: Information flow, injury messengers and neuronal survival. The Advanced School of Neurochemistry, 3rd Biennial Course on AFrontiers Approaches to Brain Function and Disease," ISN, Amherst, MA, July 16-19, 1997.
600. **Bazan NG**: The role of injury/hypoxia messengers in diabetic retinopathy. Workshop on "The Eyes in Diabetes Mellitus: Focus on Retinal Complications," Turku, Finland, July 25-26, 1997.
601. **Bazan NG**: Lipid messengers in synaptic signaling: significance in neuronal survival. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
602. Campbell FZ, DeCoster MA, Marcheselli VL, **Bazan NG**: Excitatory amino acid neurotransmitter receptor agonists and platelet-activating factor (PAF) enhance the expression of the inducible prostaglandin synthase-2 (COX-2) in primary hippocampal neurons. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System,"

- New Orleans, LA, July 27-30, 1997.
603. DeCoster MA, Hewitt M, Lambeau G, Lazdunski M, **Bazan NG**: Modulation of neuronal sensitivity to glutamate by secretory phospholipases A₂ (sPLA₂s). Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
604. Ershov AV, **Bazan NG**: Phagocytosis of rod outer segments (ROS) triggers the expression of cyclooxygenase-2 (COX-2) in cultured rat retinal pigment epithelium (RPE) cells. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
605. Gerashchenko DY, Beuckmann CT, Kanaoka Y, Eguchi N, Urade Y, Hayaishi O, **Bazan NG**: Localization of DP receptor in rat brain and eye tissues. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
606. Lukiw WJ, EI Rogaev, **Bazan NG**: Synaptic and cytoskeletal RNA message levels in alzheimer neocortex. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
607. Lukiw WJ, Mukherjee PK, Dixon D, Prescott SM, **Bazan NG**: Structure and 5' functional analysis of the human cyclooxygenase 2 (COX2) gene. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
608. Marcheselli VL, Gordon W, **Bazan NG**: Significance of COX-2 in neuronal and photoreceptor survival. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
609. Mukherjee PK, DeCoster MA, Davis RJ, **Bazan NG**: Platelet-activating factor (PAF) or kainate (KA) activation of p-38, JNK-1, and mitogen-activated protein kinase (MAPKs) follow different pathways than glutamate (GLU) in primary hippocampal neurons. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
610. Ogden F, DeCoster MA, **Bazan NG**: Neuroprotection by recombinant platelet-activating factor acetylhydrolase (rPAF-AH) on NMDA-induced excitotoxicity in hippocampal neurons. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
611. Rodriguez de Turco EB, Richardson F, Kolko M, Lambeau M, Lazdunski M, **Bazan NG**: Synergistic breakdown of synaptic phosphatidylcholine and phosphatidylethanolamine by SPLA₂ and glutamate during cortical neuronal cell death. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
612. Rodriguez de Turco EB, Richardson F, Kolko M, Lambeau M, Lazdunski M, **Bazan NG**: Differential breakdown of synaptic phosphatidylcholine and phosphatidylethanolamine by SPLA₂ and glutamate during cortical neuronal cell death. Satellite of the Joint meeting of the 16th

- Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
613. Serou M, Marcheselli VL, DeCoster MA, **Bazan NG**: A secretory phospholipase A₂ (sPLA₂) receptor agonist induces expression of prostaglandin endoperoxide synthase-2 (COX-2) in primary cortical neurons but not glial cultures. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
614. Teather LA, Packard MG, **Bazan NG**: MK-801 attenuates the memory enhancing effect of intradorsal striatal injections of platelet-activating factor. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
615. Teather LA, Packard MG, **Bazan NG**: Effects of intrahippocampal injections of platelet-activating factor and the PAF antagonists BN 52021 and BN 50730 on spatial memory in rats. Satellite of the Joint meeting of the 16th Biennial meeting of the International Society for Neurochemistry and the 28th Annual Meeting of the American Society for Neurochemistry, "Lipid Messengers in the Nervous System," New Orleans, LA, July 27-30, 1997.
616. **Bazan NG**: COX-2 in synaptic plasticity and neurodegenerative diseases. First International Workshop on COX-2, New Orleans, LA, September 13-14, 1997.
617. **Bazan NG**: PAF signal transduction and COX-2 expression: Significance in neuronal survival and in neurodegenerative diseases. Fifth International Conference on Eicosanoids and other Bioactive Lipids in Cancer, Inflammation and Related Diseases, La Jolla, CA, September 17-20, 1997.
618. **Bazan NG**: The neuromessenger platelet-activating factor in plasticity and neurodegeneration. Satellite Symposium of the 27th Annual meeting of the Society for Neuroscience, on "Nitric Oxide and Other Diffusible Signals in Brain and Development, Plasticity, and Disease," New Orleans, LA, October 24-15, 1997.
619. DeCoster MA, **Bazan NG**: Modulation of neuronal sensitivity to glutamate by secretory phospholipase A₂ (sPLA₂s). *Soc Neurosci* 23:2293, 1997.
620. Ershov AV, Linn DM, **Bazan NG**: Phagocytosis of rod outer segments (ROS) is a selective transcriptional activator of peroxisome proliferator-activated receptor gamma (PPAR γ) in retinal pigment epithelium (RPE) cells. *Soc Neurosci* 23:89, 1997.
621. Hardy M, Allan G, Nguyen S, Ershov A, Gould HJ, **Bazan NG**: Selective induction by seizures of the expression of gamma isoform of the peroxisome proliferator-activated receptor (PPAR γ) in cerebral cortex and hippocampus. *Soc Neurosci* 23:863, 1997.
622. Lukiw WJ, **Bazan NG**: Cyclooxygenase-2 (COX2) RNA message stability in Alzheimer's disease (AD) neocortex. *Soc Neurosci* 23:2171, 1997.
623. Ogden F, DeCoster MA, **Bazan NG**: Neuroprotection by recombinant platelet-activating factor acetylhydrolase (rPAF-AH) on NMDA-induced excitotoxicity in hippocampal neurons. *Soc Neurosci* 23:1667, 1997.
624. Rodriguez de Turco EB, Richardson F, Kolko M, Bazan HEP, Lambeau G, Lazdunski M, **Bazan NG**: Synergistic breakdown of synaptic phosphatidylcholine and phosphatidylethanolamine by sPLA₂ and glutamate during cortical neuronal cell death. *Soc Neurosci* 23:1113, 1997.
625. Rogaev EI, Lukiw WJ, Marcheselli VL, **Bazan NG**: Synaptic and cytoskeletal RNA message levels in Alzheimer's disease. *Soc Neurosci* 23:2171, 1997.
626. Serou M, Marcheselli VL, DeCoster MA, Homayoun P, **Bazan NG**: A secretory phospholipase A₂ (sPLA₂) receptor agonist induces expression of prostaglandin endoperoxide synthase-2 (COX-2) in primary cortical neurons but not glial cultures. *Soc Neurosci* 23:1128, 1997.

627. **Bazan NG**, Ershov AV, DeCoster MA: Significance of MMPs in the CNS: Introduction. Satellite Symposium of the Society for Neuroscience, "Matrix Metalloproteinases and the Central Nervous System," New Orleans, LA, October 30-31, 1997.
628. **Bazan NG**: Synaptic signaling to genes in epilepsy. 13th Annual meeting of American Academy of Clinical Neurophysiology, New Orleans, LA, January 29-31, 1998.
629. **Bazan NG**: Neuroprotection by controlling bioactive lipid signaling. American Society for Neurochemistry, Denver, CO, March 7-11, 1998.
630. **Bazan NG**: Epileptogenesis: Significance of informational flow, sprouting and neuronal damage. Merritt-Putnam, Lectures on Epilepsy, New Orleans, LA, April 18, 1998.
631. Teather LA, Smith DE, Marcheselli VL, **Bazan NG**: Immunocytochemical localization of cyclooxygenase-2 (COX-2) in rat brain following kainic acid-induced status epilepticus. *FASEB J* 12:A750, 1998.
632. Colangelo V, Gordon WC, Mukherjee P, Klatzo I, **Bazan NG**: Aspects of tolerance and apoptosis: Cell and molecular biological studies. Third International Workshop on Maturation Phenomenon in Cerebral Ischemia. Pozzilli, Italy, April 20-22, 1998.
633. Gordon WC, Colangelo V, **Bazan NG**, Klatzo I: Aspects of maturation phenomenon observed by the TUNEL method. Third International Workshop on Maturation Phenomenon in Cerebral Ischemia, Pozzilli, Italy, April 20-22, 1998.
634. Lukiw WJ, Colangelo V, Mukherjee P, Klatzo I, **Bazan NG**: Synaptic signaling and gene expression in the maturation phenomenon of Cerebral Ischemia. Third International Workshop on Maturation Phenomenon in Cerebral Ischemia, Pozzilli, Italy, April 20-22, 1998.
635. **Bazan NG**: Endogenous neuroprotection mechanisms and inflammatory signaling in stroke. Princeton Conference, May 7-10, 1998.
636. La Motta I, Hardy M, Allan G, Marcheselli VL, **Bazan NG**: Effect of overexpression of platelet-activating factor acetylhydrolase alpha subunit in light damaged photoreceptor cells. University of New Orleans, Howard Hughes Internship Research Day, New Orleans, LA, May 8, 1998.
637. Casey D, Marcheselli VL, Hardy M, **Bazan NG**: Light damage increased levels of PGHS - 2 are prevented by overexpression of PAF acetylhydrolase. University of New Orleans, Howard Hughes Internship Research Day, New Orleans, LA, May 8, 1998.
638. **Bazan NG**, Rodriguez de Turco EB, Parkins N, Jacobson SG: Increases in arachidonoyl-phospholipids of plasma and red blood cells in Q64ter rhodopsin gene mutation causing retinitis pigmentosa (RP): Evidence for systemic metabolic alterations. Second Annual Vision Research Conference on "Retinal Development, Degeneration and Functional Restitution," Fort Lauderdale, FL, May 8-9, 1998.
639. Gordon WC, Rodriguez de Turco, **Bazan NG**: Evidence of modulation uptake of docosahexanoic acid by RPE cells. Second Annual Vision Research Conference on "Retinal Development, Degeneration and Functional Restitution," Fort Lauderdale, FL, May 8-9, 1998.
640. Lukiw WJ, Gordon WC, Rodriguez de Turco, **Bazan NG**: CIS-acting transcription factors AP2 α , HIF and the endothelin-1 (ET-1) and vascular endothelial growth factor (VEGF) genes are coordinately induced during rat retinal neovascularization. Second Annual Vision Research Conference on "Retinal Development, Degeneration and Function Restitution," Fort Lauderdale, FL, May 8-9, 1998.
641. Marcheselli VL, **Bazan NG**, Gordon WC: Enhanced expression of the inducible prostaglandin synthase gene precedes light-induced photoreceptor apoptosis. Second Annual Vision Research Conference on "Retinal Development, Degeneration and Function Restitution," Fort Lauderdale, FL, May 8-9, 1998.
642. Ershov AV, **Bazan NG**: Selective induction of peroxisome proliferative-activated receptor gamma (PPAR γ) by ROS phagocytosis in RPE cells. *Suppl Invest Ophthalmol Vis Sci* 39:S189, 1998.
643. Gordon WC, Rodriguez E.B, **Bazan NG**: *In vivo* evidence for modulated uptake of

- docosahexaenoic acid** into RPE cells. *Suppl Invest Ophthalmol Vis Sci* 39:S729, 1998.
644. Linn DM, Gordon WC, Parkins N, Rodriguez de Turco EB, Koenig-Berard E, Duhault J, **Bazan NG**: Electroretinography and microvasculature changes in the rat pup cycled oxygen model of diabetic retinopathy. *Suppl Invest Ophthalmol Vis Sci* 39:S125, 1998.
645. Lukiw WJ, Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Co-induction of transcription activators AP2, HIF, TFIID and of endothelin-1 (ET-1) and vascular endothelial growth factor (VEGF) during retinal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 39:S517, 1998.
646. Parkins N, Ershov AV, Rodriguez de Turco EB, **Bazan NG**: Efficient conservation of phagosomal **docosahexaenoic acid** into phospholipids in rat RPE cells. *Suppl Invest Ophthalmol Vis Sci* 39:S34, 1998.
647. Rodriguez de Turco E.B., Parkins N, Jacobson SG, **Bazan NG**: Unexpected blood changes in a primary rod receptor disease: Retinitis pigmentosa caused by Q64ter rhodopsin gene mutation. *Suppl Invest Ophthalmol Vis Sci* 39:S727, 1998.
648. **Bazan NG**: Bioactive lipids in synaptic signaling to genes. 12th International Meeting of the European Society for Neurochemistry, St. Petersburg, Russia, July 19-24, 1998.
649. **Bazan NG**: COX-2 in ischemic brain injury and in neurodegeneration. Second International Workshop on COX-2, Kapalua, HI, July 28-31, 1998.
650. **Bazan NG**: COX-2 in synaptic plasticity and neurodegeneration. IBCs Industry Symposium on COX-2 Inhibitors, San Diego, CA, August 6-7, 1998.
651. **Bazan NG**: Synaptic signaling, stress-sensitive protein kinases, and COX-2 in neuronal injury. Cambridge Healthtech Institute's, Acute Neuronal Injury: New Therapeutic Opportunities, Las Vegas, NV, September 23-24, 1998.
652. **Bazan NG**: COX-2 and oxidative stress in ischemic brain injury and neurodegeneration. 5th IUBMB Conference on The Biochemistry of Health and Diseases, Jerusalem, Israel, October 18-22, 1998.
653. Bailey B, **Bazan NG**: Comparative study of a new drug, SCP-1, on inhibition of COX-2 and COX-1 enzymatic activity. Medical Student Summer Research Forum, October 31, 1998, New Orleans, LA.
654. Colangelo V, Lukiw WJ, Mukherjee PK, Gordon WC, Klatzo I, **Bazan NG**: Synaptic signaling and gene expression attenuation in a gerbil model of cerebral ischemic tolerance. *Soc Neurosci* 24:1842, 1998.
655. DeCoster MA, Lambeau G, Lazdunski M, **Bazan NG**: Secretory phospholipase A2 (sPLA₂) potentiates glutamate-induced toxicity flux in primary neuronal culture: Mechanistic studies. *Soc Neurosci* 24:756, 1998.
656. Lukiw WJ, Mukherjee PK, Dixon D, Prescott SM, LeBlanc H, Carver LA, **Bazan NG**: NFκB (p50/RelA) levels in aging and sporadic Alzheimer's disease (AD) temporal lobe neocortex: Relevance to neuroinflammation and cyclooxygenase-2 (COX-2) gene expression. *Soc Neurosci* 24:256, 1998.
657. Mukherjee PK, DeCoster MA, Campbell FZ, Ershov AV, **Bazan NG**: Nitric oxide synthase involvement in platelet-activating factor (PAF) mediates activation of stress sensitive MAPKs in neuronal culture. *Soc Neurosci* 24:1247, 1998.
658. Parker MA, DeCoster MA, **Bazan NG**: PAF potentiates NMDA-induced release of reactive oxygen species (ROS) from mitochondria to neuronal cytosol. *Soc Neurosci* 24:1454, 1998.
659. Paul D, Marcheselli VL, Gonzalez-Martin G, Sunkel C, Narducy K, **Bazan NG**: SCP-1: A novel acetaminophen-derived analgesic with no antipyretic or hepatotoxic activity. *Soc Neurosci* 24:1253, 1998.
660. Rogaev EI, **Bazan NG**, Lukiw WJ: Common regulatory elements in the promoters of genes linked to familial or sporadic Alzheimer's disease (AD). *Soc Neurosci* 24:257, 1998.
661. Tu B, Marcheselli VL, Hardy M, Ershov AV, **Bazan NG**: Hippocampal kindling causes

- upregulation of COX-2 and cPLA₂ expression. *Soc Neurosci* 28:1209, 1998.
- 662 Wang, J-H, Li W, Marcheselli VL, **Bazan NG**, Sun GY: Inhibition of cytokine action of PAF antagonists in immortalized astrocytes. *Soc. Neurosci* 28:1540, 1998.
663. Lukiw WJ, Marcheselli VL, **Bazan NG**: Synaptic signaling triggers enhancement in transcription factor (TF) DNA binding during kainate-induced seizures in rat hippocampus. American Epilepsy Society 52:000, 1998.
664. **Bazan NG**: Cell signaling and gene expression in photoreceptor survival. Keystone Symposia, Ocular Cell and Molecular Biology Symposium, Keystone, CO, February 5-10, 1999.
665. **Bazan NG**: Neurodegeneration and plasticity of the brain. 12th Annual Meeting of American Association for Geriatric Psychiatry, New Orleans, LA, March 14-17, 1999.
666. **Bazan NG**: Stress sensitive signaling, synaptic activity and gene expression in neuronal survival. *J Neurochem* 72:S90A, 1999.
667. **Bazan NG**, Rodriguez de Turco, Parkins N, Jacobson SG: Abnormalities in plasma lipoprotein and red blood cell phospholipids in retinitis pigmentosa (RP) due to a rod photoreceptor specific gene defect. *J Neurochem* 72(S):S62A, 1999.
668. Campbell FZ, DeCoster MA, **Bazan NG**: Simultaneous evaluation of neuronal necrosis and DNA damage. *J Neurochem* 72:S9D, 1999.
669. Castellano A, Mukherjee PK, Lukiw WJ, DeCoster MA, **Bazan NG**: Cytokine-responsive NF-κB-induced kinase (NIK) and inhibitor of KB (IKB) kinase activation by NMDA through PAF in primary neuronal culture. *J Neurochem* 72:S11B, 1999.
670. Chen C, DeCoster M, Magee J, Bobbin RB, **Bazan NG**: PAF decreases postsynaptic ionotropic GABA receptor activity in hippocampal neurons. *J Neurochem* 72:S74C, 1999.
671. Colangelo V, Lukiw WJ, Gordon WC, Klatzo I, **Bazan NG**: COX-2 as a mediator of cerebral ischemic tolerance. *J Neurochem* 72:S30B, 1999.
672. DeCoster MA, **Bazan NG**: Secretory phospholipase A₂ (SPLA₂) modulates neuronal excitation and is released from neuronal cultures. *J Neurochem* 72:S30C, 1999.
673. Ershov AV, **Bazan NG**: Rod outer segment (ROS) phagocytosis-induced gene expression in retinal pigment epithelium (RPE) cells PCR-subtraction analysis. *J Neurochem* 72:S10D, 1999.
674. Hardy M, Tian XH, Aoki J, Arai H, Inoue K, **Bazan NG**: Changes in COX-2 and PAF receptor mRNA during light-induced photoreceptor degeneration in transgenic animals over-expressing β and α2 PAF-AH subunits in rat retina. *J Neurochem* 72:S11A, 1999.
675. Lukiw WJ, Arceneaux L **Bazan NG**: Nucleosome core histone acetylation by platelet activating factor (PAF) correlates with cellular immediate early gene (eIEG) transcription in mouse, rat and human cell lines. *J Neurochem* 72(S):S37B, 1999.
676. Lukiw WJ, LeBlanc HJ, Carver LA, **Bazan NG**: Gene transcription in human neocortical nuclei. Inhibition by nanomolar aluminum and implications for Alzheimer's disease. *J Neurochem* 72(S):S73C, 1999.
677. Lukiw WJ, Marcheselli VL, **Bazan NG**: Trans-synaptic signaling and platelet-activating factor (PAF) induce AP1-, AP2-, NF-κB, NF-IL6- and STAT1-DNA binding during kainate- or ECS-induced seizures in rat hippocampus. *J Neurochem* 72(S):S10B, 1999.
678. Lukiw WJ, Mukherjee PK, Dixon D, Prescott SM, LeBlanc HJ, Carver LA, **Bazan NG**: AP1 and NF-κB 9p50/p65) levels in Alzheimer's disease (AD) and age-matched association neocortex: Relevance to neuroinflammatory processes and cyclooxygenase-2 (COX-2) transcription. *J Neurochem* 72(S):S73B, 1999.
679. Lukiw WJ, Rogaev EI, **Bazan NG**: DNA regulatory elements in the immediate promoters of the nine genes linked to familial or sporadic Alzheimer's disease (AD). *J Neurochem* 72(S):S73D, 1999.
680. Marcheselli VL, **Bazan NG**: Light damage induced photoreceptor apoptosis involves a PAF receptor mediated signaling pathway which involves upregulation of COX-2 and BCL-2. *J*

- Neurochem* 72(S):S50D, 1999.
681. Mukherjee P, DeCoster MA, Campbell FZ, Davis RJ, **Bazan NG**: Modulation of stress-sensitive MAP kinases and neuronal cell death by glutamate receptor signaling interplay. *J Neurochem* 72(S):S75B, 1999.
682. Mukherjee P, DeCoster MA, Campbell FZ, **Bazan NG**: Significance of nitric oxide synthase and platelet-activating factor (PAF) in the activation of stress sensitive mitogen-activated protein kinases (MAPKs) in neurons in culture. *J Neurochem* 72(S):S75C, 1999.
683. Parker MA, DeCoster MA, **Bazan NG**: PAF potentiates NMDA-induced release of reactive oxygen species (ROS) from mitochondria to neuronal cytosol. *J Neurochem* 72(S):S75A, 1999.
684. Parkins N, Ershov AV, Rodriguez de Turco, **Bazan NG**: Modulation of **docosahexaenoic acid** metabolism in rat retinal pigment epithelium after phagocytosis. *J Neurochem* 72(S):S61D and S62B, 1999.
685. Sanchez T, DeCoster MA, Dewitt DL, **Bazan NG**: Transcription of GFP- COX-1 and GFP-COX-2 fusion proteins into cortical neuronal and astrocyte cultures. *J Neurochem* 72(S):S54A, 1999.
686. Serou M, Marcheselli VL, DeCoster MA, **Bazan NG**: Interlukin-1 beta induces expression of genes impacting neuronal plasticity and survival in rat primary hippocampal cultures. *J Neurochem* 72(S):S10A, 1999.
687. Teather LA, Packard MG, **Bazan NG**: Post-training peripheral administration of indomethacin, a prostaglandin synthesis inhibitor, impairs spatial learning in rats. *J Neurochem* 72(S):S67C, 1999.
688. Teather LA, Smith DE, Marcheselli VL, **Bazan NG**: Prostaglandin endoperoxide synthase-2 (COX-2) in rat hippocampus following kainic-induced status epilepticus: An immunocytochemical study. *J Neurochem* 72:S21A, 1999.
689. Tu B, Marcheselli VL, **Bazan NG**: Hippocampal kindling enhances stimulation-induced COX-2 gene expression in cortex and hippocampus. *J Neurochem* 72:S30D, 1999.
690. Katsura K, Rodriguez de Turco EB, Terashi A, Katayama Y, **Bazan NG**, Siesjö BK: Enhanced acidosis affects lipid metabolism during complete ischemia. International Stroke Society Regional Meeting, Yokohama, Japan, April 22-24, 1999.
691. Katsura K, Rodriguez de Turco EB, Terashi A, Katayama Y, **Bazan NG**, Siesjö BK: Effects of different levels of acidosis on lipid metabolism during complete ischemia. *Brain* 99.
692. **Bazan NG**, Lukiw WJ: Regulation of vascular endothelial growth factor (VEGF) gene transcription by insulin growth factor (IGF) and hypoxia inducible factor (HIF) in mouse retina undergoing neovascularization. *Suppl Invest Ophthalmol Vis Sci* 40:S10, 1999.
693. Ershov AV, **Bazan NG**: Representational difference analysis of late response gene expression during rod outer segment (ROS) phagocytosis in RPE cells. *Suppl. Invest Ophthalmol Vis Sci* 40:S181, 1999.
694. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Neonatal retinal neovascularization long-term alterations in electroretinograms. *Suppl Invest Ophthalmol Vis Sci* 40:S155, 1999.
695. Lukiw WJ, Duault J, Koenig-Berard E, Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Transcription factor HIF-1 and AP2- α DNA binding orchestrate angiogenic gene transcription programs during retinal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 40:S166, 1999.
696. Rodriguez de Turco EB, Jackson F, Parkins N, Gordon WC, **Bazan NG**: Differential association of [3 H]DHA-lipids and free [3 H]DHA to rhodopsin after *in vivo* and *in vitro* labeling of frog retinas. *Suppl Invest Ophthalmol Vis Sci* 40:S958, 1999.
697. **Bazan NG**: Phospholipases A₂ at the synapse: Signaling for neuronal survival. Intl Conf on Phospholipase A₂, Berlin, Germany, May 26-29, 1999.
698. **Bazan NG**: Synaptic activation, stress sensitive signaling and COX-2 expression in the brain. Association Pour la Neuro Psycho Pharmacologie, "Expression and Action of Anti-Inflammatory Cytokines in the Brain", Arachon, France, May 29-30, 1999.
699. **Bazan NG**: Synaptic signaling in ischemia: Stress sensitive protein kinases, gene expression and

- neuronal survival. Minisymposium on Stroke, Kuopio, Finland, June 10-11, 1999.
700. **Bazan NG:** St. Charles Pharmaceutical, Inc. - A Start-Up Company. American Chemical Society, Younger Chemist Committee, "Trends in Biotechnology", New Orleans, LA, August 24-25, 1999.
701. Moises JP, Marcheselli VL, **Bazan NG:** Brain injury induces COX-2 expression: Inhibition by a PAF antagonist. 17th Annual National Neurotrauma Society meeting, October 22-23, 1999.
702. **Bazan NG:** Synaptic signaling, gene expression and neuronal survival. The 4th International Workshop, "Maturation Phenomenon in Cerebral Ischemia Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction," October 30-November 2, 1999.
703. Colangelo V, Gordon WC, **Bazan NG:** Cortical and hippocampal differential COX-2 expression in cerebral ischemia and tolerance. The 4th International Workshop, "Maturation Phenomenon in Cerebral Ischemia Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction," October 30-November 2, 1999.
704. Lukiw WJ, **Bazan NG:** Signaling in cerebral ischemia - IL-1 β -modulated gene expression in normal human neural progenitor (NHNP) cell lines using high density cDNA arrays. The 4th International Workshop, "Maturation Phenomenon in Cerebral Ischemia Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction," October 30-November 2, 1999.
705. Marcheselli VL, Moises JP, Tian XH, **Bazan NG:** Partial inhibition of ischemia-reperfusion induced COX-2 gene expression is associated with neuroprotection in a model of MCAO. The 4th International Workshop, "Maturation Phenomenon in Cerebral Ischemia Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction," October 30-November 2, 1999.
706. Parker MA, Marcheselli VL, Rodriguez de Turco EB, **Bazan NG:** Platelet-activating factor induces permeability transition and cytochrome C release from rat brain mitochondria. The 4th International Workshop, "Maturation Phenomenon in Cerebral Ischemia Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction," October 30-November 2, 1999.
707. Tu B, Marcheselli VL, **Bazan NG:** The maturation phenomenon studied in a model of hippocampal kindling. The 4th International Workshop, "Maturation Phenomenon in Cerebral Ischemia Apoptosis and/or Necrosis, Neuronal Recovery vs. Death, and Protection for Infarction," October 30-November 2, 1999.
708. Colangelo V, Gordon WC, **Bazan NG:** Hippocampal CA1 subfield differential response in a gerbil model of transient cerebral ischemia. *Soc Neurosci* 25:828, 1999.
709. Lukiw WJ, Tu B, Marcheselli VL, **Bazan NG:** Delayed hippocampal NF- κ B induction during experimental epileptogenesis. *Soc Neurosci* 25:540, 1999.
710. Mukherjee PK, Castellano A, Lukiw WJ, DeCoster MA, **Bazan NG:** Cytokine-responsive NF- κ B-induced kinase, an inhibitor of κ B (IKB) kinase activation by NMDA through PAF in primary neuronal culture. *Soc Neurosci* 25:1697, 1999.
711. Parker MA, Rodriguez de Turco EB, **Bazan NG:** Platelet activating factor (PAF) induces swelling of isolated brain mitochondria. *Soc Neurosci* 25:1847, 1999.
712. Rogaev EI, Lukiw WJ, **Bazan NG:** DNA regulatory elements in the immediate promoters of nine genes linked to familial or sporadic Alzheimer's disease (AD). *Soc Neurosci* 25:22, 1999.
713. Tu B, Marcheselli VL, **Bazan NG:** Gene regulation of COX-2, cPLA₂, BAX and BCL-2 in kindling. *Soc Neurosci* 25:1114, 1999.
714. Vaccarino AL, Latour JP, **Bazan NG:** Analgesic and preemptive effects of SPC-1: A novel derivative of acetaminophen. *Soc Neurosci* 25:1944, 1999.
715. Lukiw WJ, Tu B, Marcheselli VL, **Bazan NG:** Delayed hippocampal activation of the transcription factor NF- κ B in experimental epileptogenesis. 53rd American Epilepsy Society, December 3-9, 1999.
716. **Bazan NG:** Glutamate synaptic signaling and lipid messengers: Significance in neuronal survival. 31th Annual American Society for Neurochemistry, 2000.
717. **Bazan NG**, Mukherjee PK, Serou M, DeCoster MA, Lukiw WJ: Synaptic signaling to protein

- kinases that modulated NF- κ B activity. 31th Annual American Society for Neurochemistry 2000.
718. DeCoster MA, **Bazan NG**: Glutamate uptake and secretory phospholipase A₂ (sPLA₂) enhancement of neuronal excitation. 31th Annual American Society for Neurochemistry 2000.
719. Lukiw WJ, **Bazan NG**: Histone acetyltransesterases (HATs) acetylate core histones using PAF as an acetyl donor: Significance in gene expression regulation. 31th Annual American Society for Neurochemistry, 2000.
720. Lukiw WJ, **Bazan NG**: IL-1 β -modulated gene expression in normal human neural progenitor (NHNP) cell lines using high density cDNA arrays. 31th Annual American Society for Neurochemistry 2000.
721. Lukiw WJ, Carver LA, LeBlanc HJ, **Bazan NG**: Analysis of 1184 genes in alzheimer hippocampus using high density cDNA arrays. 31th Annual American Society for Neurochemistry, 2000.
722. Lukiw WJ, Marcheselli VL, **Bazan NG**: Delayed hippocampal activation of transcription factor NF-kappaB in experimental epileptogenesis. 31th Annual American Society for Neurochemistry, 2000.
723. Rogaev EI, Lukiw WJ, **Bazan NG**: DNA regulation elements in the immediate promoters of nine genes linked to familial or sporadic Alzheimer's disease (AD). 31th Annual American Society for Neurochemistry, 2000.
724. Serou MJ, **Bazan NG**: Interleukin-1 beta enhances pro-inflammatory transcription factor activity in primary hippocampal neurons. 31th Annual American Society for Neurochemistry, 2000.
725. Hunt JD, Skrepnik N, Robert EG, Marcheselli VL, **Bazan NG**: The platelet-activating factor (PAF) antagonist BN-50730 inhibits angiogenesis. American Association for Cancer Research 91st Annual Meeting, San Francisco, CA, April 1-5, 2000.
726. **Bazan NG**, Mukherjee PK, Ershov A, Ghosh S, Lukiw WJ: I κ B phosphorylation and NF-kappaB-dependent transcription are downregulated by ROS binding and phagocytosis in retinal pigment epithelium (RPE). *Suppl Invest Ophthalmol Vis Sci* 41:S842, 2000.
727. Bersgma DR, Mukherjee PK, **Bazan NG**: Rod outer segment binding and phagocytosis modulate cyclooxygenase-2 (COX-2) transcription in human retinal pigment epithelium (RPE). *Suppl Invest Ophthalmol Vis Sci* 41:S824, 2000.
728. Casey DM, Gordon WC, Hardy M, **Bazan NG**: Light-induced TUNEL-positive photoreceptors do not necessarily die. *Suppl Invest Ophthalmol Vis Sci* 41:S21, 2000.
729. Ershov AV, **Bazan NG**: Lipid signaling genes in RPE cells: Selective induction of prostaglandin D₂ receptor and cytoplasmic phospholipase A₂ by rod phagocytosis. *Suppl Invest Ophthalmol Vis Sci* 41:S842, 2000.
730. Gershnik EF, Gordon WC, **Bazan NG**: Antagonist of the intracellular platelet-activating factor (PAF) receptor protects photoreceptors from light damage. *Suppl Invest Ophthalmol Vis Sci* 41:S332, 2000.
731. Gordon WC, Narra P, Mukherjee PK, Campbell FZ, **Bazan NG**: Cytokines and growth factors activate the NF-kappaB signaling pathway in human retinal pigment epithelial (RPE) cells. *Suppl Invest Ophthalmol Vis Sci* 41:S869, 2000.
732. Lukiw WJ, Marcheselli VL, Gordon WC, **Bazan NG**: Activation of HIF-1 and NF-kappaB-DNA binding immediately precedes induction of COX-2 and VEGF gene transcription during experimenta neovascularization in neonatal rat retina. *Suppl Invest Ophthalmol Vis Sci* 41:S140, 2000.
733. Ma X, **Bazan NG**, Bazan HEP: Platelet-activating factor (PAF) induces *in vivo* angiogenesis in cornea and up-regulates vascular endothelial growth factor (VEGF) expression in vascular endothelial cells. *Suppl Invest Ophthalmol Vis Sci* 41:S832, 2000.
734. Rodriguez de Turco EB, Parkins N, Jackson FR, Ershov AV and **Bazan NG**: Polarized trafficking of **docosahexaenoic acid (DHA)** in rat retinal pigment epithelial (RPE) cells favors its delivery to photoreceptors. *Suppl Invest Ophthalmol Vis Sci* 41:S612, 2000.

735. **Bazan NG**, Parker MA, Colangelo C, Rodriguez de Turco EB: Mitochondrial phospholipase A2 (PLA2): Significance in apoptosis and neurodegeneration. Eric K. Fernström Foundation Symposium. Lund, Sweden, June 2-6, 2000.
736. DeCoster MA, **Bazan NG**: Phospholipase A2 (PLA2) and bioactive lipids at the synapse: Signaling for neuronal survival. 4th Congress of the International Society for the Study of **Fatty Acids** and Lipids (ISSFAL 2000), Tsukuba International Convention Center, Tsukuba, Japan, June 4-9, 2000.
737. DeCoster MA, **Bazan NG**: Secretory phospholipase A2 (PLA2) and NMDA receptor. 4th Congress of the International Society for the Study of **Fatty Acids** and Lipids (ISSFAL 2000), Tsukuba International Convention Center, Tsukuba, Japan, June 4-9, 2000.
738. **Bazan NG**: Docosanoids and their potential neuroprotective role on the retina. EGS '00 Congress, London, England, June 29, 2000.
739. Kolko M, Christensen T, **Bazan NG**, Diemer NH: Neuronal death elicited by glutamate and secretory phospholipase A2 synergy. The Benzon Symposium No. 47 on A Molecular Pharmacology of Ion Channels, in Copenhagen, Denmark, August 13-17, 2000.
740. **Bazan NG**: Expression and regulation of COX-2 in the Central Nervous System. William Harvey Research Conferences on "Defining the Role of COX-2 Inhibitors in Inflammatory and Other Diseases", Porto, Portugal, October 1-3, 2000.
741. **Bazan NG**, Gordon W, Gershnik E, Casey D, Lukiw W: Neuroprotection, DNA damage, and repair in light-induced photoreceptor degeneration. IXth International Symposium on Retinal Degeneration, Durango, CO, October 9-14, 2000.
742. Barreiro S, Mukherjee MK, Narra P, Marcheselli JA, **Bazan NG**: Oxidative stress in pro-inflammatory signaling and gene expression in human retinal pigment epithelial cell. XIV International Congress of Eye Research, Santa Fe, NM, October 15-20, 2000.
743. **Bazan NG**: Signaling and gene expression mediated by eicosanoids in retinal pigment epithelium (RPE). XIV International Congress of Eye Research, Santa Fe, NM, October 15-20, 2000.
744. Ershov AV, **Bazan NG**: Photoreceptor phagocytosis regulated gene expression in retinal pigment epithelial cells: cDNA array profile. XIV International Congress of Eye Research, Santa Fe, NM, October 15-20, 2000.
745. Hill JM, Lukiw WJ, Gebhardt BM, **Bazan NG**, Kaufman HE: Microarray analysis of cellular gene expression during herpes simplex virus reactivation. XIV International Congress of Eye Research, Santa Fe, NM, October 15-20, 2000.
746. Lukiw WJ, Gordon WC, **Bazan NG**: Upregulation of hypoxia of presenilin-2 gene expression in rat retina. XIV International Congress of Eye Research, Santa Fe, NM, October 15-20, 2000.
747. Ma X, **Bazan NG**, Bazan HEP: A new corneal angiogenic factor: Platelet-activating factor (PAF) and its potential mechanism. XIV International Congress of Eye Research, Santa Fe, NM, October 15-20, 2000.
748. Bazan HEP, Parker MA, Rodriguez de Turco EB, **Bazan NG**: PAF induces permeability transition and cytochrome C release in mitochondrial isolated from rat brain. *Soc. Neurosci.* **30**:111.9, 2000.
749. Chen C, Magee J, Marcheselli, V, Hardy M, **Bazan NG**: Long-term potentiation is attenuated in dentate gyrus neurons of mice deficient in the platelet-activating factor receptor. *Soc. Neurosci.* **30**:334.2, 2000.
750. DeCoster MA, Rodriguez de Turco EB, Jackson FR, **Bazan NG**: Release of free arachidonic acid (20:4) by secretory phospholipase A2 (PLA2) from neurons. *Soc. Neurosci.* **30**:689.7, 2000.
751. Gordon WC, Gershnik E, Casey D, **Bazan NG**: Neuroprotection of photoreceptors during light-induced damage by a PAF receptor antagonist. *Soc. Neurosci.* **30**:735.6, 2000.
752. Kolko M, Christensen T, **Bazan NG**, Diemer NH: Neuronal death elicited by glutamate and secretory phospholipase A2 synergy: Experimental neuropathology. *Soc. Neurosci.* **30**:308.6, 2000.
753. Lukiw WJ, Carver LA, LeBlanc HJ, **Bazan NG**: Decreases in zinc-dependent transcription factor

- mRNAs in Alzheimer's disease (AD) hippocampal CA1 as analyzed by high density cDNA arrays. *Soc. Neurosci.* **30**:301.6, 2000.
754. Marcheselli V, Tian X, Thompson H, **Bazan NG**: Neuroprotection by BN-50730 in the stroke model of mouse middle cerebral artery occlusion. *Soc. Neurosci.* **30**:285.7, 2000.
755. Rogaev EI, Rogaev, WJ Lukiw, V Colangelo, WC Gordon, **Bazan NG**: Coordinate PS1, PS2 and COX-2 gene transcription in oxidative stressed hippocampus, retina and human neural progenitor cells. *Soc. Neurosci.* **30**:492.14, 2000.
756. Tian X, Marcheselli V, Thompson H, **Bazan NG**: Platelet-activating factor receptor-deficient mice show neuroprotection after transient focal cerebral ischemia. *Soc. Neurosci.* **30**:670.6, 2000.
757. Truett GE, Walker JA, Mynatt RL, Williams JG, Gordon WC, **Bazan NG**: Autosomal recessive spastic quadriplegia (SQ/SQ) in the Zucker rat. *Soc. Neurosci.* **30**:32.5, 2000.
758. Tu B, Marcheselli VL, **Bazan NG**: COX-2 protein expression is induced in hippocampus and is potentiated in cortex by hippocampal kindling. *Soc. Neurosci.* **30**:390.8, 2000.
759. Zhu P, DeCoster MA, Hermann D, Lundstrom K, **Bazan NG**: Metabotropic glutamate receptors (mGluRs) participate in excitotoxicity by glutamate in primary hippocampal neuronal culture. *Soc. Neurosci.* **30**:857.3, 2000.
760. Lukiw WJ, **Bazan NG**: Cyclooxygenase-2 (COX-2) and presenilin-1 (PS1) genes exhibit enhanced transcription in experimental epileptogenesis. *American Epilepsy Society*, December 1-6, 2000.
761. Lukiw WJ, Rogaev EI, **Bazan NG**: Upregulation of presenilin-1 (PS2) gene expression in kainic acid (KA) induced epileptogenesis in adult rats. *American Epilepsy Society*, December 1-6, 2000.
762. **Bazan NG**, Marcheselli VL, Lukiw WJ: Expression and regulation of brain COX-2 during epileptogenesis and seizures. Fourth International Workshop on COX-2, San Juan, Puerto Rico, February 4-7, 2001.
763. **Bazan NG**: The pathological significance of docosanooids in the eye. The 3rd International Glaucoma Symposium-I.G.S., Prague, Czech Republic, March 21-25, 2001.
764. **Bazan NG**: Prostaglandins (and related agents) breakdown of the blood-retinal barrier: Where we're going. *Suppl Invest Ophthalmol Vis Sci* **42**:S313, 2001.
765. **Bazan NG**, Varoqui H, Gordon WC, Erickson JD: Expression of glutamine transporters (SAT1 and SAT2) on retinal ganglion cells. *Suppl Invest Ophthalmol Vis Sci* **42**:S678, 2001.
766. Barreiro SG, Mukherjee PK, **Bazan NG**: Oxidative stress and proinflammatory signaling modulate the expression of vascular endothelial growth factor (VEGF) in human retinal pigment epithelium. *Suppl Invest Ophthalmol Vis Sci* **42**:S756, 2001.
767. Casey DM, Lukiw WJ, Gordon WC, **Bazan NG**: Presenilin-2 (PSEN2) expression is enhanced in hypoxia-induced retinal neovascularization. *Suppl Invest Ophthalmol Vis Sci* **42**:S243, 2001.
768. Ershov AV, **Bazan NG**: Detection of photoreceptor-derived IRBP mRNA by RT-PCR in the RPE cells after ROS phagocytosis in culture. *Suppl Invest Ophthalmol Vis Sci* **42**:S356, 2001.
769. Gershanik EF, Lukiw WJ, Ottlecz A, Lambrou GN, **Bazan NG**: Zinc and aluminum induce hypoxia-inducible-factor-1-(HIF)-DNA binding and VEGF gene expression in primate choroidal endothelium. *Suppl Invest Ophthalmol Vis Sci* **42**:S242, 2001.
770. Gordon WC, Casey DM, Marcheselli VI, Lukiw WJ, Wang G, Englander EW, **Bazan NG**: Bright light triggers mitochondrial and nuclear DNA fragmentation preceding photoreceptor cell death. *Suppl Invest Ophthalmol Vis Sci* **42**:S627, 2001.
771. Hill JM, Lukiw WJ, Gebhardt BM, **Bazan NG**: Microarray analysis of gene expression in HSV-1 latent mouse trigeminal ganglia (TG) following heat stress. *Suppl Invest Ophthalmol Vis Sci* **42**:S44, 2001.
772. Lukiw WJ, Ottlecz A, Lambrou GN, Grueninger M, Finley J, **Bazan NG**: Activation of HIF-1 α - and NF-kappaB-DNA binding precedes COX-2 gene transcription in hypoxia triggered rhesus choroid-renal RF-6A cells. *Suppl Invest Ophthalmol Vis Sci* **42**:S243, 2001.
773. Ma X, Lukiw WJ, **Bazan NG**, Bazan HEP: Platelet activating factor (PAF) activated NF-kappaB in

- human corneal epithelial cells causes inhibition of apoptosis. *Suppl Invest Ophthalmol Vis Sci* 42:S892, 2001.
774. Marcheselli VL, DeCoster MA, Campbell Z, Barreiro SG, **Bazan NG**: Neuroprotection of unoprostone, but not by latanoprost, against glutamate-stimulated calcium influx and cell death in retinal ganglion cells. *Suppl Invest Ophthalmol Vis Sci* 42:S750, 2001.
775. Mukherjee PK, Barreiro SG, **Bazan NG**: Rod outer segment binding and phagocytosis modulate the expression of vascular endothelial growth factor (VEGF) in human retinal pigment epithelium. *Suppl Invest Ophthalmol Vis Sci* 42:S190, 2001.
776. Ottlecz A, Rodriguez de Turco EB, Zanta-Bussif MA, Parkins N, Lambrou GN, **Bazan NG**: Retinal endothelial cells: Significance of phospholipase A₂ in pathoangiogenesis. *Suppl Invest Ophthalmol Vis Sci* 42:S93, 2001.
777. Rodriguez de Turco EB, Kolko M, DeCoster MA, **Bazan NG**: Synergistic retinal ganglion cell death elicited by glutamate and secretory phospholipase A₂ (sPLA₂). *Suppl Invest Ophthalmol Vis Sci* 42:S749, 2001.
778. **Bazan NG**: Significance of **docosahexaenoic acid** and cell signaling in retina neuroprotection. XIII Congress of European Society of Ophthalmology, Istanbul, Turkey, June 3-7, 2001.
779. **Bazan NG**, Marcheselli VL, Mukherjee P, DeCoster MA: Synaptic signaling to genes in prolonged wakefulness. DARPA Cap Workshop, August 21-23, 2001.
780. LaHoste GJ, Gordon WC, **Bazan NG**: Sleep deprivation inhibits long-term potentiation in vivo in rat hippocampus. DARPA Cap Workshop, August 21-23, 2001.
781. Lukiw WJ, Marcheselli VL, LaHoste GJ, Schurr J, **Bazan NG**: Genome-wide DNA array analysis of sleep-wake genes in the rat brain. DARPA Cap Workshop, August 21-23, 2001.
782. Magee JC, Chen C, McDermott C, **Bazan NG**: Sleep deprivation induces alterations in membrane excitability and synaptic plasticity in hippocampal neurons. DARPA Cap Workshop, August 21-23, 2001.
783. Rodriguez de Turco, EB, Alvarez-Builla J, Sunkel C, **Bazan NG**: Development of pharmacologic approaches to modulate brain gene expression, neurogenesis, and synaptogenesis. DARPA Cap Workshop, August 21-23, 2001.
784. Barreiro SG, Mukherjee PK, **Bazan NG**: Modulation of expression of vascular endothelial growth factor (VEGF) under the influence of oxidative stress and proinflammatory signaling in human retinal pigment epithelium (RPE). Joint Meeting ISN and ASN, Buenos Aires, Argentina, August 26-31, 2001.
785. Bermudez V, Lukiw WJ, **Bazan NG**: Gene expression screening for hypoxia inducible factor-1 (HIF-1) and nuclear factor-kappaB in human cDNA libraries. *J Neurochem* 78(S1):168, 2001.
786. Bermudez V, Lukiw WJ, **Bazan NG**: Zinc and aluminum induce NF-kappaB-DNA binding and COX-2 gene expression in human retinal progenitor cells in primary culture. *J Neurochem* 78(S1):193, 2001.
787. Kolko M, **Bazan NG**, Diemer NH: Secretory phospholipase A₂ differentially upregulates COX-2, C-FOS and C-JUN as compared to glutamate in rat striatum. *J Neurochem* 78(S1):100, 2001.
788. Lukiw WJ, **Bazan NG**: Aluminum induces proinflammatory gene expression in human neural cells in primary culture: Implications for Alzheimer's disease (AD). *J Neurochem* 78(S1):135, 2001.
789. Lukiw WJ, **Bazan NG**: Coordinate expression of cyclooxygenase-2 and presenilin-1 genes during brain development, ischemia, neovascularization and in Alzheimer's disease (AD). *J Neurochem* 78(S1):135, 2001.
790. Rodriguez de Turco EB, Marcheselli VL, Prescott S, **Bazan NG**: Diacylglycerol kinase epsilon gene deletion modifies arachidonoyl-insitol lipid signaling and seizure susceptibility. *J Neurochem* 78(S1):152, 2001.
791. Bazan NG: Meaning of pathways and PAF-ways in the life and death of neurons. Seventh Intl Cong on PAF and Lipid Mediators, Tokyo, Japan, Sept 24-27, 2001.

792. **Bazan NG**, Lukiw WJ: Cyclooxygenase-2 (COX-2) and presenilin-1 (PS1) are inducible, co-regulated pro-inflammatory genes in Alzheimer's disease (AD). *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
793. Chen C, Magee JC, **Bazan NG**: Cyclooxygenase-2 participates in dentate granule neurons through prostaglandins E₂. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
794. LaHoste GJ, Cline KB, IM Billiot, Morgan S, Gordon WC, **Bazan NG**: Sleep deprivation inhibits hippocampal long-term potentiation in rats. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
795. Lukiw WJ, **Bazan NG**: Aluminum triggers NF-kappaB signaling and pro-inflammatory gene expression in human neural cells: Implications for Alzheimer's disease. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
796. Magee JC, Chen C, McDermott C, **Bazan NG**: Sleep deprivation induced alterations in membrane excitability and synaptic plasticity in hippocampal neurons. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
797. Marcheselli VL, Paul D, Mino L, Sunkel C, Alvarez-Builla J, **Bazan NG**: SCP-1, a novel analgesic derivative of acetaminophen, lacks its hepatotoxic properties. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
798. Rodriguez de Turco EB, Marcheselli VL, Bazan HEP, **Bazan NG**: SCP-1, a novel analgesic, lacks side effects during mice aging. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
799. Vaccarino AL, **Bazan NG**: Evaluation of the preemptive analgesic effects of acetaminophen, and the novel acetaminophen derivative, SCP-1. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
800. Zhu P, DeCoster MA, Hermann D, Lundstrom K, **Bazan NG**: Metabotropic glutamate receptors modulate glutamate excitotoxicity in primary cortical neuronal glial culture. *Soc. Neurosci.*, San Diego, CA, November 10-15, 2001.
801. Barreiro SG, Mukherjee PK, Soriani HM, **Bazan NG**: NF-kappaB switches off RPE apoptosis: Relevance to age-related macular degeneration (AMD). *American Academy of Ophthalmology*, New Orleans, LA, November 11-14, 2001.
802. **Bazan NG**, Mukherjee PK, Burgoyne CF, DeCoster MA: Cytokine induction of NF-kappaB gene in retinal ganglion cells (RGC): Implications in glaucoma. *American Academy of Ophthalmology*, New Orleans, LA, November 11-14, 2001.
803. Soriani MH, Mukherjee PK, Bersgman DR, Barreiro S, **Bazan NG**: VEGF and COX-2 expression in RPE: Significance in diabetic retinopathy. *American Academy of Ophthalmology*, New Orleans, LA, November 11-14, 2001.
804. **Bazan NG**: Synaptic plasticity modifications, gene expression and cognitive deficits induced by continuous wakefulness. DARPA Workshop, November 12, 2001.
805. **Bazan NG**, Tu B: Synaptic signaling in sleep deprivation: Sustained upregulation of neuronal COX-2. DARPA Workshop, November 12, 2001.
806. LaHoste GJ, Gordon WC, **Bazan NG**: Sleep deprivation inhibits long-term potentiation in vivo in rat hippocampus and impairs spatial memory. DARPA Workshop, November 12, 2001.
807. Lukiw WJ, Marcheselli VI, **Bazan NG**: Broad-spectrum analysis of sleep-wake genes in the rat brain using high-density DNA arrays. DARPA Workshop, November 12, 2001.
808. Magee JC, Chen C, McDermott C, **Bazan NG**: Sleep deprivation induced alterations in membrane excitability and synaptic plasticity in hippocampal neurons. DARPA Workshop, November 12, 2001.
809. Lukiw WJ, **Bazan NG**: Presenilin gene transcription is up-regulated in kainite (KA)-induced epileptogenesis. *American Epilepsy Society*, November 30-December 5, 2001.
810. DeCoster MA, Nguyen T, Rosenzweig Z, **Bazan NG**: Lectin-coated micro- and nano-lipobeads to probe for neuronal signal transduction in cell culture: A model to explore magnetically "tagged"

- biomolecules. DARPA Workshop on Bio-Magnetic Interfacing Concepts (BioMagnetICs), Arlington, VA, December 11-12, 2001.
811. Billiot IM, Gordon WC, **Bazan NG**, LaHoste GJ: Hippocampal long-term potentiation *in vivo* and spatial memory are impaired by sleep deprivation in rats. *Experimental Biology* 2002, A875, 2002.
 812. DeCoster MA, Nguyen T, **Bazan NG**, Rosenweig Z: Adherence of lectin-coated micro lipobeads to cortical neurons in cell culture. *Experimental Biology* 2002, A37, 2002.
 813. Gordon WC, Lukiw WJ, **Bazan NG**: Light-induced retinal degeneration: DNA damage and repair. *Experimental Biology* 2002, A963, 2002.
 814. Lukiw WJ, **Bazan NG**: Cyclooxygenase-2 (COX-2) and presenilin-1 (PS1) are inducible, co-regulated pro-inflammatory genes in Alzheimer's disease (AD). *Experimental Biology* 2002, A5, 2002.
 815. Lukiw WJ, Rogaev EI, Schurr J, Carver LA, Howse K, **Bazan NG**: Gene expression analysis of 12,631 poly A+ RNA messages in Alzheimer disease brain: Neurotrophic signaling and transcription factor down-regulation and up-regulation of proinflammatory genes. *Experimental Biology* 2002, A7, 2002.
 816. Paul D, Minor LD, Sayah M, Trudell M, Alvarez-Builla J, Sunkel C, **Bazan NG**: N-acylated-4-hydroxyphenylamine derivatives of acetaminophen: Analgesic and antipyresis. *Experimental Biology* 2002, A183, 2002.
 817. Rodriguez de Turco EB, Parkins N, Richardson F, Marcheselli VL, **Bazan NG**: The novel analgesic SCP-1 lacks side effects during mouse aging. *Experimental Biology* 2002, A182-183, 2002.
 818. Vaccarino AL, Rodriguez de Turco EB, Marcheselli VL, **Bazan NG**: SCP-1, a novel derivative of acetaminophen with analgesic and preemptive properties. *Experimental Biology* 2002, A183, 2002.
 819. Zhu P, DeCoster MA, **Bazan NG**: Platelet-activating factor (PAF) potentiates oxidative stress-mediated neuron cell death. *Experimental Biology* 2002, A546, 2002.
 820. Gordon WC, Lukiw WJ, **Bazan NG**: DNA polymerase β is induced by bright light in photoreceptor inner segments: DNA repair may be critical in photoreceptor survival. *ARVO Pre-meeting*, May 3-4, 2002.
 821. DeCoster M, Jackson FR, Roy S, **Bazan NG**: Unoprostone decreases glutamate-mediated Ca⁺⁺ influx in retinal ganglion cells purified by panning: significance of glia. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 822. Faghiri Z, Mukherjee PK, **Bazan NG**: Subcellular distribution of protein kinase C alpha in human retinal pigment epithelial cells using PKC-alpha-GFP fusion protein. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 823. Gordon WC, **Bazan NG**: Cone photoreceptor death preceding light-induced retinal damage. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 824. Lambrou G, Ottino P, Ottlecz A, Finley J, **Bazan NG**, Bazan HEP: Membrane associated matrix metalloproteinase (MTI-MMP) and MMP-2 gene expression are selectively induced by hypoxia in monkey choroids retinal cells. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 825. Lukiw WJ, Gordon WC, **Bazan NG**: Cytoplasmic phospholipase A2 (cPLA2) and inflammatory gene signaling during neovascularization in a model of retinopathy of prematurity. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 826. Mukherjee PK, Barreiro SG, Soriano M, Campbell Z, Topham MK, Prescott SM, **Bazan NG**: Diacylglycerol kinase epsilon gene specifically modulated morphology and survival in ARPE-19 cells. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 827. Ottlecz A, Lukiw WJ, Lambrou G, Finley J, **Bazan NG**: Upregulation of COX-2 gene transcription in monkey choroidal retinal cells is triggered by hypoxia. *Invest Ophthalmol and Visual Sci*, May 5-10, 2002.
 828. DeCoster MA, Bazan NG: Glutamate-mediated CA++ influx and nuclear damage in retinal

- ganglion cells purified by panning: Role of glia. *J Neurochem* 81(S1):101, 2002.
829. Kolko M, Rodriguez de Turco EB, **Bazan NG**: Secretory phospholipase A2 signalling partly overlaps glutamate-mediated events. *J Neurochem* 81(S1):101, 2002.
830. Lukiw WJ, **Bazan NG**: Aluminum triggers NF- κ B signaling, inflammatory and apoptotic gene expression in human neural cells. *J Neurochem* 81(S1):101, 2002.
831. Lukiw WJ, Riazanskaya N, Grigorenko A, Korovaitseva G, Dvoryanchikov G, Molyaka Y, Nicolaou M, Farrer L, **Bazan NG**, Rogaei EI: DNA polymorphism in the human presenilin-2 promoter: Altered gene activity and potential contribution to the risk for AD. *J Neurochem*, 81(S1):76, 2002.
832. Lukiw WJ, Rogaei EI, Schurr J, Carver LA, LeBlanc HJ, Howse K, Ball MJ, **Bazan NG**: Analysis of 12360 Poly A+ RNA message levels in Alzheimer disease (AD) hippocampal CA1. *J Neurochem* 81(S1):62, 2002.
833. **Bazan NG**, Gordon W, Cortina S, Lukiw WJ: Light-induced photoreceptor damage triggers photoreceptor repair: Differential fate of rods and cones. *Retinal Degeneration* 2002.
834. **Bazan NG**: Synaptic lipid reservoirs of messengers: New insights in signaling relevant to stroke, epilepsy, and neurodegeneration. 2002 Short Course for High School Students, *Soc. Neuroscience*.
835. **Bazan NG**, LaHoste G, Schurr J, Marcheselli VL Lukiw WJ: Genome-wide DNA array analysis during sleep deprivation in the rat brain. *Soc. Neurosci.* 32:589.2, 2002.
836. Chen C, **Bazan NG**: 5-HT2 receptors mediate SCP-1-induced synaptic modification in hippocampal perforant path-dentate granule cell synapses. *Soc. Neurosci.* 32:346.4, 2002.
837. DeCoster MA, **Bazan NG**: Calcium homeostasis and cell injury in retinal glial cells in response to glutamate. *Soc. Neurosci.* 32:36.13, 2002.
838. Kolko M, Foye PE, Varoqui H, **Bazan NG**: Novel secretory phospholipase A₂, IIE in rat brain and retina. *Soc. Neurosci.* 32:829.5, 2002.
839. LaHoste GJ, Gordon WC, **Bazan NG**: Role of stress hormones in sleep deprivation-induced memory impairments in rats. *Soc. Neurosci.* 32:375.9, 2002.
840. Lukiw WJ, Colangelo V, Dixon DA, Prescott SA, Carlson M, Sato C, Rogaeva E, Thompson H, Farrer LA, **Bazan NG**: Polymorphism in the cyclooxygenase-2 gene promoter: Modulation of gene activity and potential contribution to the risk for Alzheimer's disease. *Soc. Neurosci.* 32:785.1, 2002.
841. Vaccarino AL, Scuderi HA, **Bazan NG**: N [alpha-(1,2-benzisothiazol-3(2HO-ona-1,1-dioxide-2-yl)- acetyl]-p-aminopheno (SCP-1): Evaluation of analgesic acid and anti-inflammatory properties. *Soc. Neurosci.* 32:842.8, 2002.
842. Zhu P, DeCoster MA, **Bazan NG**: Platelet-activating factor potentiates oxidative stress-mediated neuron cell death. *Soc. Neurosci.* 32:493.16, 2002.
843. Lukiw WJ, Marcheselli VL, **Bazan NG**: Waves of AP1, NF- κ B and STAT-1 transcription factors in hippocampus during kainite induced epileptogenesis. *American Epilepsy Society*, Seattle, WA, December 5-10, 2002.
844. Nguyen TH, Chen L, DeCoster MA, **Bazan NG**, Rosenzweig Z: Lipobead-based sensors for extracellular measurements in rat cortical neurons. *American Chemical Society meeting*, March 23-27, 2003.
845. **Bazan NG**: Retina neuroprotection: Significance in glaucoma and age-related macular degeneration. XXIV *Pan American Congress of Ophthalmology*, March 28-April 2003.
846. **Bazan NG**: New aspects of physiopathology and ocular therapeutics. Pan American Association of Ophthalmology meeting, *ARVO Symposium*, May 2, 2003.
847. **Bazan NG**: Lipid messengers in synaptic activation: Plasticity signaling and neuronal survival. ASN, Jordi Folch Pi Memorial Symposium, May 5, 2003.
848. **Bazan NG**, Gordon WC, Faghiri Z, Lukiw WJ, Cortina MS: Lipid signaling toward apoptosis or survival in RPE and photoreceptors. *Minisymposium ARVO* 2003.

849. Barreiro SG, Kolko M, Christoffersen NR, **Bazan NG**: Secretory phospholipase A₂ in human RPE cells: Novel intercellular messengers. *Invest Ophthalmol and Visual Sci*, 2003.
850. Cortina MS, Lukiw WJ, Gordon WC, **Bazan NG**: Bright light triggers epair and up-regulates photoreceptor DNA polymerase γ and β . *Invest Ophthalmol and Visual Sci*, 2003.
851. Esquenazi S, He JC, Bazan HEP, **Bazan NG**: Prevention of experimental post-lasik diffuse lamellar keratitis (LDK) by a novel platelet-activating factor receptor antagonist. *Invest Ophthalmol and Visual Sci*, 2003.
852. Faghiri Z, **Bazan NG**: Proteasome-mediated PAF-induced down-regulated of PKC α in ARPE-19 cells. *Invest Ophthalmol and Visual Sci*, 2003.
853. Gordon WC, Cortina MC, Ragbir ST, **Bazan NG**: Differential fate of rods and cones in light-induced retinal damage. *Invest Ophthalmol and Visual Sci*, 2003.
854. Kolko M, Christoffersen NR, Varoqui H, **Bazan NG**: Expression of novel secretory phospholipase A₂ in rat retina. *Invest Ophthalmol and Visual Sci*, 2003.
855. Lukiw WJ, Ottlecz A, Lambrou G, **Bazan NG**: Hypoxia-induced COX-2 VEGF gene expression in retinal cells: Repression by CGP43182. *Invest Ophthalmol and Visual Sci*, 2003.
856. Mukherjee PK, Barreiro SG, **Bazan NG**: NF κ B and oxidative stress induced apoptosis in human retinal pigment epithelium (RPE) cells differentially inhibited by PAF antagonist. *Invest Ophthalmol and Visual Sci*, 2003.
857. Ottino P, Finley J, Bazan HEP, Ottlecz A, Lambrou G, **Bazan NG**: Hypoxia induces the gene expression of VEGF and its receptors, FLK-1 and NP-1 in monkey choroid-retinal endothelial cells. *Invest Ophthalmol and Visual Sci*, 2003.
858. Ottlecz A, Lukiw WJ, Buehler-Nurmi H, Lambrou GN, **Bazan NG**: Growth factors-induced tubular morphogenesis in down-regulated by the MEK inhibitor U0126 in cultured human endothelia cells. *Invest Ophthalmol and Visual Sci*, 2003.
859. **Bazan NG**: Synaptic signaling in the repair/neuroprotective response in ischemia-reperfusion damage: Pharmacologic targets in synaptic lipid signaling. 3rd International Symposium, "Neuroprotection and Neurorepair", *Focus 2003: Stroke and Endogenous Stem Cells*, Magdeburg, Germany, May 7-10, 2003.
860. **Bazan NG**: Lipid messengers in neuronal survival: Neuroprotection and pro-inflammatory signaling. 8th International Conference, Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases, Chicago, IL, September 7-10, 2003.
861. Vaccarino AL, Paul D, Mukherjee P, Rodríguez de Turco E, Marcheselli VL, Minguez JM, Sunkel C, Matía MP, Novella JL, Alvarez-Builla J, **Bazan NG**: 2-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-YL)-N-(4-hydroxyphenyl)acetaminda (SCP-1): A novel non-hepatotoxic acetaminophen analog with high analgesic potency and anti-pyretic activity. XIII Congreso Nacional SEQT, Santiago de Compostela, September 9-12, 2003.
862. Bazan HE, Cui J, LaHoste GH, Schurr J, Marcheselli VL, **Bazan NG**, Lukiw WJ: Genome-wide DNA array analysis during sleep deprivation in rat brain. *Soc. Neurosci. 2003*.
863. **Bazan NG**, Cui J, Lukiw WJ: Cyclooxygenase-3 involvement in the development of Alzheimer disease (AD). *Soc. Neurosci. 2003*.
864. Carver LA, **Bazan NG**, Schurr J, Cui JG, Rogaev EI, Ball MJ, Karlova VI, Padilla CE, Lukiw WJ: Hippocampal CA₁ deficits in transcription and synaptic signaling and up-regulation of DAXX, pentraxin and other neuronal injury mediators in Alzheimer's disease. *Soc. Neurosci. 2003*.
865. Christoffersen NR, Kolko M, Barreiro SG, Varoqui H, **Bazan NG**: Identification, induction, and location of secretory phospholipase A₂ IIE and VI in the rat brain: Induction of SPLA₂ by electroshock. *Soc. Neurosci. 2003*.
866. Cortina MS, Gordon WC, Lukiw WJ, **Bazan NG**: Rapid upregulation of nuclear DNA polymerase β and synaptic mitochondrial DNA polymerase γ in photoreceptors in response to experimental retinal degeneration. *Soc. Neurosci. 2003*.

867. Genc A, Zhu P, **Bazan NG**, Chen C: Profile of prostaglandin E2 receptors in rodent hippocampus and cortex. *Soc. Neurosci.* 2003.
868. Gordon WC, Cortina MS, **Bazan NG**: Differential fate in rod and cone photoreceptor degeneration. *Soc. Neurosci.* 2003.
869. Idoyaga-Vargas V, Calandria J, Daniel JM, Barreiro S, **Bazan NG**: Regulation of DNA and protein síntesis by conditioned médium from newborn rats in developing rat cerebral cortex. *Soc. Neurosci.* 2003.
870. Kuorda H, Cui JG, **Bazan NG**, Lukiw WJ: Aluminum induces NF- κ B signaling and inflammatory gene expression in human neural cells in primary culture: Implications for neurodegenerative disease. *Soc. Neurosci.* 2003.
871. LaHoste GJ, Colangelo V, Mukherjee PK, Dixon DA, Prescott SA, Carlson M, Rogaeva E, Thompson H, **Bazan NG**, Lukiw WJ: Polymorphism in the 5' regulatory region of the human cyclooxygenases-2 gene: Modulation of gene activity and potential contribution to the risk of Alzheimer's disease. *Soc. Neurosci.* 2003.
872. Leisure JL, Hardy MN, Chiappinelli BB, **Bazan NG**, Gage FH: Sleep deprivation alters phenotype of hippocampal progenitor cells: Influence of exercise. *Soc. Neurosci.* 2003.
873. Lopez Osa D, **Bazan NG**, Cui JG, Lukiw WJ: Suppression of inflammatory signaling and induction of Bcl2 in normal human neural progenitor cells in primary culture by platelet-activating factor antagonism. *Soc. Neurosci.* 2003.
874. McDermott CM, **Bazan NG**, Magee JC: Effects of sleep deprivation on glutamatergic transmission in hippocampal neurons. *Soc. Neurosci.* 2003.
875. Mukherjee J, Mukherjee PK, Barreiro SG, **Bazan NG**: Oxidative stress-induced apoptosis, PAF signaling, and NF κ B activation in human retinal pigment epithelium cells. *Soc. Neurosci.* 2003.
876. Olejniczak P, Lukiw WJ, Marcheselli VL, **Bazan NG**: Waves of AP₁, HIF-1, NF- κ B and Stat₁ transcription factors in the hippocampus during kainite induced epileptogenesis. *Soc. Neurosci.* 2003.
877. Paul D, **Bazan NG**, Cui JG, Lukiw WJ: Transcription profiling of 12633 gene expression levels in human temporal lobe epilepsy (TLE). *Soc. Neurosci.* 2003.
879. Ragbir ST, Cortina MS, Gordon WC, Marcheselli VL, **Bazan NG**: Rod and cone photoreceptor dropout fields in light-induced retinal degeneration. *Soc. Neurosci.* 2003.
880. Tian X, Marcheselli VL, **Bazan NG**: Neuroprotection by PAF-receptor antagonists against brain damage induced by cerebral ischemia-reperfusion. *Soc. Neurosci.* 2003.
881. Zhang X, **Bazan NG**, Chen C: SCP-1 inhibits voltage-gated calcium channel currents in rat dorsal root ganglion neurons. *Soc. Neurosci.* 2003.
882. Zhu P, Lukiw WJ, Ottlecz A, Lambrou G, **Bazan NG**: Hypoxia-induced COX-2 and VEGF gene expression in retinal cells: Repression by CGP₄₃₁₈₂. *Soc. Neurosci.* 2003.
883. **Bazan NG**: Synaptic signaling by lipids in the life and death of neurons. ISN/ASPN Satellite meeting, "Oxidative Mechanisms in Neurodegenerative Disorders", Guilin, China, Feb. 7-12, 2004.
884. Deo DD, Axelrad TW, Van Krik J, Ottino P, **Bazan NG**, Bazan HEP, Hunt JD: Platelet-activating factor (PAF)-induced invasion involves a complex signaling cascade in vascular endothelial cells. American Association for Cancer Research, April, 2004.
885. **Bazan NG**: Lipid synaptic signaling: Sleep, endocannabinoids, and neuroprotection. Targeted lipidomics: Signaling lipids and drugs of abuse, NIDA, Washington, DC, April 15-17, 2004.
886. Barreiro SG, **Bazan NG**: A2E and oxidative stress up-regulate NF- κ B and induce apoptosis in human retinal epithelial cells. *Suppl Invest Ophthalmol Vis Sci* 2004.
887. **Bazan NG**, Marcheselli VL, Mukherjee PK: Novel neuroprotective docosanoids in retinal pigment epithelium (RPE): Endogenous survival signaling. *Suppl Invest Ophthalmol Vis Sci* 2004.
888. Cortina MS, Lukiw WJ, Bersgma DR, Gordon WC, **Bazan NG**: DNA polymerase γ and β expression selectively localized to photoreceptors is down regulated by LAU-0901, coinciding with

- light-damage protection. *Suppl Invest Ophthalmol Vis Sci* 2004.
889. Cui J-G, Lukiw WJ, Ottlecz A, Lambrou GN, **Bazan NG**: Hypoxia-induced COX-2 and VEGF gene expression are down-regulated by LY294002 and U0126 in retinal cells: Repression of HIF-1 alpha and NF- κ B-DNA binding. *Suppl Invest Ophthalmol Vis Sci* 2004.
890. Esquenazi S, He JC, Bazan HEP, **Bazan NG**: Use of autologous serum in post-lasik corneal epithelial defects. *Suppl Invest Ophthalmol Vis Sci* 2004
891. Faghiri Z, **Bazan NG**: Persistence and termination of cytokine-mediated pro-inflammatory signaling in retinal pigment epithelial cells (RPE). *Suppl Invest Ophthalmol Vis Sci* 2004.
892. Gordon WC, Cortina MS, Bersgma DR, Ragbir ST, **Bazan NG**: Neuroprotection by LAU-0901 in light-induced retinal damage: Rod and cone photoreceptor sparing. *Suppl Invest Ophthalmol Vis Sci* 2004.
893. Lopez-Osa DR, Gordon WC, Cortina MS, **Bazan NG**: Ellipsoid mitochondrial fission in light-induced photoreceptor apoptosis. *Suppl Invest Ophthalmol Vis Sci* 2004.
894. Lukiw WJ, Cui JG, **Bazan NG**: Stress-induced modulation of cyclooxygenases-3 (COX-3) gene expression in human retinal pigment epithelial cells. *Suppl Invest Ophthalmol Vis Sci* 2004.
895. Mathew B, Gordon WC, Cortina MS, Bersgma DR, Lukiw WJ, **Bazan NG**: Age-related photoreceptor DNA repair. *Suppl Invest Ophthalmol Vis Sci* 2004.
896. Mukherjee PK, Koochekpour S, Lee T-J, Grabowski GA, Sartor O, **Bazan NG**: The prosaposin gene downregulates oxidative stress-induced apoptosis in human retinal pigment epithelial cells: Hammerhead ribozymes and proximal promoter studies. *Suppl Invest Ophthalmol Vis Sci* 2004.
897. Ragbir ST, Cortina MS, Barreiro SG, Gordon WC, **Bazan NG**: Oxidative stress-induced upregulation of DNA repair in human RPE cells. *Suppl Invest Ophthalmol Vis Sci* 2004.
898. **Bazan NG**: Novel docosahexanoic acid enzyme-mediated oxygenation pathways: Neuroprotective docosanoids. *American Oil Chemists Society meeting*, Cincinnati, OH, May 9-12, 2004.
899. **Bazan NG**: Synaptic activation in sleep deprivation: Clues for mechanisms and neuroprotection targets. *Associated Professional Sleep Society meeting*, Philadelphia, PA, June 5-10, 2004.
900. **Bazan NG**, Lukiw WJ: Lipidomic aberrations in Alzheimer's disease. *9th International Conference on Alzheimer's Disease and Related Disorders*, Philadelphia, PA, July 17-22, 2004.
901. **Bazan NG**: Docosahexaenoic acid-derived neuroprotectin D1 in retinal pigment epithelial cells – survival signaling. *XIth International Symposium on Retinal Degeneration*, Perth Western, Australia, August 23-28, 2004.
902. **Bazan NG**: Survival signaling in human RPE in response to oxidative stress. *XVI International Congress of Eye Research*, Sydney, Australia, August 29-September 3, 2004.
903. **Bazan NG**: Endogenous neuroprotective signaling in response to injury and neurodegeneration. *First International Porto Pirgos Conference on Advances in Neuroscience*, Calabria, Italy, September 22-25, 2004.
904. **Bazan NG**: Brain response to injury and neurodegeneration: Endogenous neurodegenerative signaling. *Symposium: "Frontiers in Neuroscience: The Biology of Brain Disorders"*, Viña del Mar, Chile, September 26-October 2, 2004.
905. **Bazan NG**: Platelet-activating factor and docosahexaenoic acid-oxygenation novel messengers in cell signaling integration in the nervous system. *2nd International Conference on Phospholipase A2 and 8th International Congress on Platelet-activating Factor and Lipid Mediators*, Berlin, Germany, October 6-9, 2004.
907. Cole-Edwards KK, Musto AE, **Bazan NG**: Synaptic activity augments JNK activation responses in kindling epileptogenesis. *Society for Neuroscience*, San Diego, CA, October 23-27, 2004.
908. Cui JG, Mukherjee PK, Thompson HW, Prescott SM, Carlson S, Sato C, Salehi-Rad, Rogaeva E, St. George-Hyslop P, Farrer LA, Moliaka Y, Grigorenko A, Rogaev EI, **Bazan NG**, Lukiw WJ: Polymorphism in the cyclooxygenases-2 (COX-2) and presenilin 2 (PS2) gene promoters: Impact on oxidative stress and the onset and progression of Alzheimer's disease (AD). *Society for*

- Neuroscience*, San Diego, CA, October 23-27, 2004.
909. Lopez Osa DR, Gordon WC, Cortina MS, **Bazan NG**: Mitochondrial fission and apoptosis in light-damaged photoreceptors. *Society for Neuroscience*, San Diego, CA, October 23-27, 2004.
910. Lukiw WJ, Cui JG, **Bazan NG**, Schurr J, Ball MJ, Karlov, VI, Padilla CE: Stress-related gene expression patterns in aging and Alzheimer affected brain. *Society for Neuroscience*, San Diego, CA, October 23-27, 2004.
911. **Bazan NG**: Endogenous neuroprotective signaling in response to injury and neurodegeneration. *7th International Conference on Neuroprotective Agents*, Monterey, CA.
912. **Bazan NG**, Musto AE: PAF antagonism limits the progression of kindling epileptogenesis. *American Epilepsy Society*, New Orleans, LA, December 3-8, 2004.
913. Cole-Edwards KK, Musto AE, **Bazan NG**: The threshold of JNK activation decreases during kindling epileptogenesis. *American Epilepsy Society*, New Orleans, LA, December 3-8, 2004.
914. Lukiw WJ, Musto AE, Cui J, **Bazan NG**: Genome-wide expression profiling in kindling epileptogenesis. *American Epilepsy Society*, New Orleans, LA, December 3-8, 2004.
915. Musto AE, **Bazan NG**: Diacylglycerol kinase epsilon modulates rapid kindling epileptogenesis. *American Epilepsy Society*, New Orleans, LA, December 3-8, 2004.
916. Ginsberg MD, Belayev L, Marcheselli VL, Khoutorova L, Bustos R, **Bazan NG**: High-grade neuroprotection in focal cerebral ischemia by **docosahexaenoic acid** complexed to human albumin. *International Stroke Conference*, February 2-4, 2005, New Orleans, LA.
917. Tian XH, Marcheselli VL, Mukherjee PK, **Bazan NG**: Lipid messengers in brain ischemia-reperfusion damage: A single systemic injection of a novel PAF-receptor antagonist elicits neuroprotection. *International Stroke Conference*, February 2-4, 2005, New Orleans, LA.
918. Antony R, Hardy M, **Bazan NG**: Oxidative stress triggers the expression of Bcl-2 family proteins in retinal pigment epithelial cells (RPE). *Suppl Invest Ophthalmol Vis Sci 2005*.
919. Barreiro SG, Marcheselli VL, **Bazan NG**: Human retinal pigment epithelial cells protected by NPD-1 after A2E-epoxide induction. *Suppl Invest Ophthalmol Vis Sci 2005*.
920. Bazan HEP, Esquenazi S, Bui V, He J, Kim DB, **Bazan NG**: Topical combination of NGF and **DHA** increase corneal nerve regeneration after PRK in rabbits. *Suppl Invest Ophthalmol Vis Sci 2005*.
921. **Bazan NG**, Marcheselli VL, Hu J, Finley J, Bok D, Chandamuri B: Pigment epithelium-derived growth factor (PEDF) selectively up-regulates **NPD1** synthesis and release through the apical side of human RPE cells in primary culture. *Suppl Invest Ophthalmol Vis Sci 2005*.
922. Cortina MS, Gordon WC, **Bazan NG**: Differential response of photoreceptor mitochondria to oxidative stress. *Suppl Invest Ophthalmol Vis Sci 2005*.
923. DeCoster MA, Daniel B, Jackson F, McShane M, **Bazan NG**: Patterning of primary retinal cell cultures on multilayer nanofilms. *Suppl Invest Ophthalmol Vis Sci 2005*.
924. Esquenazi S, Bazan HEP, Kim DB, He J, Bui V, **Bazan NG**: Corelation between wound-healing response and refractive regression after conductive keratoplasty (CK). *Suppl Invest Ophthalmol Vis Sci 2004*.
925. Faghiri Z, Eiswirth C, **Bazan NG**: RelA (p65) NF- κ B translocation and ERK phosphorylation modulate RPE cell-signal integration during oxidative stress-induced apoptosis. *Suppl Invest Ophthalmol Vis Sci 2005*.
926. Gordon WC, Cortina MS, Lopez-Osa DR, Pedrosa-Schmidt L, **Bazan NG**: Bright light induces mitochondrial fission: Relationship to apoptosis, photoreceptor repair, and mitochondrial fusion. *Suppl Invest Ophthalmol Vis Sci 2005*.
927. Leon A, Lopez-Osa DR, Barreiro SG, Gordon WC, **Bazan NG**: Oxidative stress up-regulates DNA polymerase beta in ARPE-19 cells. *Suppl Invest Ophthalmol Vis Sci 2005*.
928. Lopez-Osa DR, Lukiw EJ, Gordon WC, **Bazan NG**: Oxidative stress-induced apoptosis in human RPE cells involves mitochondrial fission. *Suppl Invest Ophthalmol Vis Sci 2005*.

929. Lukiw WJ, Cui JG, **Bazan NG**: Hypoxia-induced up-regulation of a pro-angiogenic gene family in retinal pigment endothelial (RF/6A) cells. *Suppl Invest Ophthalmol Vis Sci* 2005.
930. Mukherjee PK, **Bazan NG**: Toll-like receptor expression in oxidative stress-induced human retinal pigment epithelial ARPE-19 cells. Inhibitory response in apoptosis. *Suppl Invest Ophthalmol Vis Sci* 2005.
931. **Bazan NG**, Marcheselli VL, Mukherjee, Hu J, Bok, D, Hardy M: Neurotrophic growth factors up-regulate **neuroprotectin D1 (NPD1)** synthesis and anti-apoptotic signaling in human retinal pigment epithelial (REP) cells. *American Society for Neurochemistry*, Madison, Wisconsin, June 25-29, 2005.
932. **Bazan NG**: Neuroprotective signaling in neurodegeneration and neurorepair. *ISN-ESN 2005, International Society for Neurochemistry*, Innsbruck, Austria, August 21-26, 2005.
933. **Bazan NG**: **Neuroprotectin D1**: Survival signaling in the RPE. *Ocular Cell & Molecular Biology*, Sarasota, Florida, September 8-10, 2005.
934. **Bazan NG**: Neuroprotective signaling by a **docosahexaenoic acid**-derived mediator: Implications in retinal degenerations, stroke, and Alzheimer's disease. *9th International Conference of Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases*, San Francisco, CA, September 11-14, 2005.
935. Mukherjee PK, Bazan HEP, Marcheselli VL, **Bazan NG**: Sphingosine-1-phosphate activates neuroprotection D1 (**NPD1**) synthesis and attenuates oxidative stress-induced apoptosis in retinal pigment epithelial cells. *Society for Neuroscience* 2005.
936. **Bazan NG**, Tian X, Marcheseelli VL, Rodriguez de Turco: Wide window of action for a new PAF antagonist LSU-0901 as a potent brain neuroprotectant following ischemia-reperfusion damage. *Society for Neuroscience* 2005.
937. White C, **Bazan NG**: Lipid mediators as novel biomarkers and surrogate indicators of neurologic recovery after cardiac arrest in a hypothermic swine model. *American Heart Association*, Chicago, IL, November 12-15, 2005.
938. **Bazan NG**, Musto A, Marcheselli VL, Mukherjee PK: **Docosahexaenoic acid** activates neuroprotective signaling in kindling epileptogenesis. *American Epilepsy Society*, Washington, DC, December 2-6, 2005.
939. Lukiw WJ, Cui J, Musto BC, Musto AE, **Bazan NG**: Genomic profiling of kindling epileptogenesis in diacylglycerol kinase epsilon (DGK) knockout mice. *American Epilepsy Society*, Washington, DC, December 2-6, 2005.
940. Musto AE, Cole-Edwards KK, **Bazan NG**: Kindling epileptogenesis augments GSK-3 β phosphorylation in the neocortex. *American Epilepsy Society*, Washington, DC, December 2-6, 2005.
941. Esquenazi E, Bazan HEP, He J, Esquenazi I, **Bazan NG**: Effect of concentration and time exposure of mitomycin-C on keratocyte density and haze formation alter PRK. *Suppl Invest Ophthalmol Vis Sci* 2006.
942. Gordon EC, Sheets KG, **Bazan NG**: In normal light-treated and rhodopsin S334ter-4 mutant rats, DNA repair enzymes in distal photoreceptor nuclei may provide enhanced resistance to oxidative stress. *Suppl Invest Ophthalmol Vis Sci* 2006.
943. Hong S, Gordon WC, Marcheselli VL, **Bazan NG**: Lipidomic approach to define pro- and anti-inflammatory mediators in laser-induced choroidal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 2006.
944. Lukiw WJ, Mukherjee PK, Cui J-G, **Bazan NG**: Mechanism of hypoxia and inflammation-induced pathoangiogenic gene expresión in retinal cells. *Suppl Invest Ophthalmol Vis Sci* 2006.
945. Marcheselli VL, Mukherjee PK, **Bazan NG**: Sphingosine-1-phosphate is an activator of **neuroprotectin D1 (NPD1)** synthesis and attenuates oxidative stress-induced apoptosis in retinal pigment epithelial cells. *Suppl Invest Ophthalmol Vis Sci* 2006.

946. Mukherjee PK, Cui JG, Bazan NG, Lukiw WJ: A2E triggers an inflammatory gene expression program in ARPE-19 cells. *Suppl Invest Ophthalmol Vis Sci* 2006.
947. Hong S, Gordon WC, Marcheselli VL, **Bazan NG**: Lipidomic approach to define pro- and anti-inflammatory mediators in laser-induced choroidal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 2006.
948. Boudreaux BP, **Bazan NG**: Lipid signaling in SAPP α mediated neuroprotection in human neural cells: Significance in Alzheimer's Disease. *48th Annual National Student Research Forum*, Galveston, Texas, 2007.
949. Daly DD, **Bazan NG**, Mukherjee PK: Survival and death in human retinal pigment epithelial cells by lipid signaling: Relevante to age-related macular degeneration and retinoblastoma. *48th Annual National Student Research Forum*, Galveston, Texas, 2007.
950. Esquenazi S, He J, Li N, **Bazan NG**, Rand W, Bazan HEP: Desiccating conditions following PRK affect the distribution of macrophages and dendritic cells and increase expression of inflammatory mediators and arginase II in corneal stroma. *Suppl Invest Ophthalmol Vis Sci* 2007.
951. Lentz JJ, Gordon WC, Farris H, Sampath S, Deininger PD, **Bazan NG**, Keats BJ: A knock-out mouse model of Usher Type IC. *Suppl Invest Ophthalmol Vis Sci* 2007.
952. Li N, Esquenazi S, He J, **Bazan NG**, Rand W, Bazan HEP: Comparative *in vivo* high-resolution confocal microscopy of corneal epithelium, sub-basal nerves and stroma in mice with or without dry eye after PRK. *Suppl Invest Ophthalmol Vis Sci* 2007.
953. Lukiw WJ, Zhao Y, Mukherjee PK, **Bazan NG**, Cui JG: Common pathogenic mechanism involving altered beta-amyloid precursor protein (β APP) processing in Alzheimer's disease (AD) and age-related macular degeneration (AMD). *Suppl Invest Ophthalmol Vis Sci* 2007.
954. Reinoso MA, Marcheselli VL, Mukherjee MK, Lu Y, Jackson FR, Bergsma DR, **Bazan NG**: PEDF promotes biosíntesis and efflux of **NPD1** in ARPE-19 cells. *Suppl Invest Ophthalmol Vis Sci* 2007.
955. Sheets KG, Gordon WC, **Bazan NG**: Changes in photoreceptor mitochondrial translocase system induced by light damage are prevented by LAU-0901. *Suppl Invest Ophthalmol Vis Sci* 2007.
956. Soniat EN, Sheets KG, Knott E, Gordon WC, Bersgma DR, Bazan NG; Müller cell response during photoreceptor oxidative stress. *Suppl Invest Ophthalmol Vis Sci* 2007.
957. Kolko M, Kiilgaard JF, Wang J, Poulsen KA, Sherfig E, La Cour M, Nissen MH, Heegaard S, **Bazan NG**, Prahue JU: Calcium-independent phospholipase A₂ may be a possible pharmaceutical target in retinal diseases involving retinal pigment epithelium proliferation and migration. *3rd International Conference on Phospholipase A2 and Lipid Mediators*, Sorrento, Italy, May 9-12, 2007.
958. **Bazan NG**: Docosanoids are multifunctional regulators of neural cell integrity and fate: Significance in aging and disease. *Fatty Acids on Cell Signaling (FACS-8), Polyunsaturates, Inflammation and Brain Function*, Auberge Ste-Antoine, Québec City, Québec, June 26-28, 2007.
959. **Bazan NG**: Vision and neurological function supported by the potent, stereospecific mediator **neuroprotectin D1** biosynthesized from **docosahexaenoic acid (DHA)**. Poly-unsaturated fats, neural function, and mental Health. *Copenhagen*, August 9, 2007.
960. Belayev L, Khoutorova L, Marcheselli VL, Gordon WC, **Bazan NG**: LAU-0901, a novel platelet-activating factor antagonist, improves neurological outcome after stroke in rats. *Society for Neuroscience* 2007.
961. Knott EJ, Soniat EN, Sheets KG, Gordon WC, **Bazan NG**: Muller cell response during Light-induced retinal degenerations. *Society for Neuroscience* 2007.
962. Sheets KG, Gordon WC, **Bazan NG**: Photoreceptor degeneration and changes in the mitochondrial translocase system. *Society for Neuroscience* 2007.
963. Antony R, **Bazan NG**: Induction of *Bcl-xL* expression by neuroprotection D1 in ARPE-19 cells. *Suppl Invest Ophthalmol Vis Sci* 2008.
964. **Bazan NG**, Zhou Y, J. Elison, Thompson H, Gjorstrup P, Gordon WC: Systemic **neuroprotectin**

- D1 (NPD1)** is a potent inhibitor of laser-induced choroidal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 2008.
965. Calandria JM, Marcheselli VL, **Bazan NG**: **Neuroprotectin D1** selectively rescues retinal pigment epithelial cells deficient in 15-lipoxygenase 1 from oxidative stress-induced apoptosis. *Suppl Invest Ophthalmol Vis Sci* 2008.
966. Cortina MA, He J, Li N, Jackson F, Marcheselli VL, **Bazan NG**, Bazan HEP: PEDF plus **DHA** enhances corneal nerve regeneration after experimental surgery. *Suppl Invest Ophthalmol Vis Sci* 2008.
967. de Rivero Vaccari JC, Mukherjee PK, **Bazan NG**: **Neuroprotectin D1** reduces cell death caused by polyglutamine ataxia-1 expansions. *Suppl Invest Ophthalmol Vis Sci* 2008.
968. Esquenazi S, He J, Li N, Rand W, **Bazan NG**, Esquenazi I, Bazan H: A novel platelet-activating factor (PAF) receptor antagonist reduces cell infiltration and expression of inflammatory mediators in mice exposed to desiccating condition after Prk. *Suppl Invest Ophthalmol Vis Sci* 2008.
969. Gordon WC, Zhou Y, Elison J, Bergsma DR, Marcheselli VL, **Bazan NG**: A novel platelet-activating factor (PAF) receptor antagonist (LAU-0901) suppresses choroidal neovascularization in a mouse model. *Suppl Invest Ophthalmol Vis Sci* 2008.
970. He J, **Bazan NG**, Bazan HEP: Aspirin-triggered lipoxin-A4 (epi-LxA4) promotes corneal endothelial proliferation and wound healing. *Suppl Invest Ophthalmol Vis Sci* 2008.
971. Kenchesowda S Sr., Jackson FR, Johnson JA, Zhang C, **Bazan NG**, Bazan HEP: EGF-mediated lipoxins synthesis modulates epithelial wound repair. *Suppl Invest Ophthalmol Vis Sci* 2007.
972. Knott EJ, Sheets KG, Bergsma DR, Gordon WC, **Bazan NG**: **Neuroprotectin D1** attenuates photoreceptor apoptosis in retinal explants after light damage *in vivo*. *Suppl Invest Ophthalmol Vis Sci* 2008.
973. Li L, Mukherjee PK, **Bazan NG**: Lipoxin inhibits apoptotic cell death and pro-inflammatory gene expression induced by oxidative-stress in retinal pigment epithelial (ARPE-19) cells. *Suppl Invest Ophthalmol Vis Sci* 2008.
974. Lukiw WJ, Mukherjee PK, Zhao Y, **Bazan NG**, Cui JG: Inflammatory signaling in age-related macular degeneration (AMD) involves up-regulation of an NF- κ B-sensitive micro-RNA-146^a (chr 5q33.3). *Suppl Invest Ophthalmol Vis Sci* 2008.
975. Mukherjee PK, **Bazan NG**: **Neuroprotectin D1** is a potent upregulator of oxidative-stress-induced expression of antioxidant responsive element (ARE) in retinal pigment epithelial (arpe-19) cells. *Suppl Invest Ophthalmol Vis Sci* 2008.
976. Reinoso MA, Mukherjee PK, Gjorstrup P, **Bazan NG**: Oxidative stress-induced apoptosis and pro-inflammatory Cox-2 expression are down-regulated by resolvins in retinal pigment-epithelial (arpe-19) cells. *Suppl Invest Ophthalmol Vis Sci* 2008.
977. Sheets KG, Knott EJ, Gordon WC, Jackson FR, Marcheselli VL, **Bazan NG**: Photoreceptors are major contributors to **NPD1** synthesis during oxidative stress. *Suppl Invest Ophthalmol Vis Sci* 2008.
978. Tian H, Zhou Y, Elison J, Gordon WC, Gjorstrup P, **Bazan NG**: Resolvin E1 or a resolvin E1 analog inhibits vascular leakage in experimental choroidal neovascularization (CNV). *Suppl Invest Ophthalmol Vis Sci* 2008.
979. Zhou Y, Gordon WC, Elison J, Hong S, Thompson H, **Bazan NG**: Lipoxin A4 or lipoxin A4-epimer 15 are suppressors of experimental choroidal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 2008.
980. **Bazan NG**: Neuroprotection and neurorepair regulated by the potent, stereospecific mediator **neuroprotectin D1** biosynthesized from **docosahexaenoic acid (DHA)**. *5th International Conference on "Neuroprotection and Neurorepair," Cerebral Ischemia and Stroke*, Magdeburg, Germany, May 17-20, 2008.
981. **Bazan NG**: A new understanding of neurodegeneration diseases and the bioactivity of omega-3

- fatty acids.** 8th Meeting of the International Society for the Study of **Fatty Acids and Lipids**, Kansas City, MO, May 17-22, 2008.
982. **Bazan NG**, Ertel MK, Knott EK, Elison JR, Zhou Y, Bergsma DR, Gjorstrup P, Gordon WC: Laser-induced choroidal neovascularization is reduced by **Neuroprotectin D1**. *Suppl Invest Ophthalmol Vis Sci* 2009.
983. Calandria JM, **Bazan NG**: **Neuroprotectin D1** enhances expression of genes related to stress response survival. *Suppl Invest Ophthalmol Vis Sci* 2009.
984. He J, **Bazan NG**, Bazan HEP: Mapping the whole human corneal nerve architecture. *Suppl Invest Ophthalmol Vis Sci* 2009.
985. Kakazu AH, He J, **Bazan NG**, Bazan HEP: Aspirin-triggered lipoxin A4 (epi-LxA4) is an important mediator for maintaining the integrity for human corneal endothelial cells. *Suppl Invest Ophthalmol Vis Sci* 2009.
986. Kenchesowda S, Jackson FR, Johnson JA, **Bazan NG**, Bazan HEP: *EGF* promotes corneal epithelial wound healing through induction of 12/15-lipoxygenase and synthesis of Lipoxin A4. *Suppl Invest Ophthalmol Vis Sci* 2009.
987. Knott E, Zhou Y, Gordon WC, **Bazan N**: Retinal **NPD1** increases during protective light preconditioning *in vivo*. *Suppl Invest Ophthalmol Vis Sci* 2009.
988. Lentz JJ, Gordon WC, MacDonald G, Cunningham D, Tempel B, Rubel E, Oersterle E, Keats B, **Bazan NG**: Combined retinal degeneration and deafness in the biUsh1c216AA/bi/Knock-in mouse. *Suppl Invest Ophthalmol Vis Sci* 2009.
989. Lukiw WJ, Mukherjee PK, Cui JG, **Bazan NG**: Down-regulation of sortilin-1 (SORL1) and increased amyloid beta (AB) abundance characterize stressed retinal pigment epithelial (ARPE-19) cells and age-related macular degeneration (AMD). *Suppl Invest Ophthalmol Vis Sci* 2009.
990. Mukherjee PK, Meerovitch K, Lama T, Saragovi HU, **Bazan NG**: Neurotrophins peptidomimetics protect retinal pigment epithelial (RPE) cells against oxidative stress-induced apoptosis. *Suppl Invest Ophthalmol Vis Sci* 2009.
991. Sheets KG, Zhou Y, Elison JR, Gjorstrup P, Gordon WC, Bersgma DR, **Bazan NG**: An analog of resolinin E1 inhibits endothelial cell growth in retina following laser-induced choroidal neovascularization (CNV). *Suppl Invest Ophthalmol Vis Sci* 2009.
992. Zhou Y, Gordon WC, Elison JR, Gjorstrup P, Bersgma DR, **Bazan NG**: Topical administration of RX-10045 reduces laser-induced choroidal neovascularization. *Suppl Invest Ophthalmol Vis Sci* 2009.
993. **Bazan NG**: **Neuroprotectin D1** downregulates amyloidogenic APP processing, neuroinflammation and targets BCK-2 proteins. *Mini Symposium on Mechanisms of Neurodegeneration*, Leicester, UK, May 15, 2009.
994. **Bazan NG**: **Neuroprotectin D1 (NPD1)** as a sentinel for neurodegenerations. *CDD Neurodegeneration Conference*, CNR, Consiglio Nazionale delle Ricerche P.le Aldo Moro 7, Italy, May 18-20, 2009.
995. **Bazan NG**: **Neuroprotectin D1**-mediated anti-inflammatory and survival signaling in stroke, retinal degenerations and Alzheimer's disease. *4th Intl Conf on Phospholipase A2 and Lipid Mediators (PLM2009)*, Hitotsubashi, Chiyoda-ku, Tokyo, Japan, May 25-28, 2009.
996. **Bazan NG**: Survival signaling and neuroinflammation-related genes in apoptosis: Significance in neurodegeneration. *British Pharmacological Soc Mtg*, Edinburgh, UK, July 8-10, 2009.
997. **Bazan NG**: Fatty acid-derived bioactive mediators in homeostatic cell survival. *Fatty Acids in Cell Signaling – FACS 09*, Keble College, Oxford, UK, July 13-16, 2009.
998. **Bazan NG**: The stereospecific mediator **neuroprotectin D1** modulates the expression of protective and pro-inflammatory genes in neurodegenerations. *22nd Biennial Mtg of the ISN/APSN meeting*, BEXCO, Busan, Korea, August 23-28, 2009.
999. **Bazan NG**: Omega-3 essential **fatty acids** modulates initiation and progression of

- neurodegenerative diseases. *22nd Biennial Mtg of the ISN/APSN Satel Conf, "Novel Strategies for Intervention in Neurodegenerative diseases,"* Academia Sinica, Taipei, Taiwan, August 3-September 2, 2009.
1000. **Bazan NG: Neuroprotectin D1 (NPD1)** induces hippocampal neuroprotection in experimental epilepsy. *Society for Neuroscience* 2009.
 1001. Belayev LS, Khoutorova L, Atkins KD, **Bazan NG:** Docosahexaenoic acid has prolonged therapeutic window in focal cerebral ischemia in rats. *Society for Neuroscience* 2009.
 1002. Khoutorova L, **Bazan NG**, Niemoller I, Atkins KD, Obenaus A, Hayes P, Titova E, Belayev L: Characterization by sequential magnetic resonance imaging and behavior. *Society for Neuroscience* 2009.
 1003. Niemoller T, Belayev L, Mukherjee P, Calandria J, Farge J, Khoutorova L, Atkins K, **Bazan NG: Docosahexaenoic acid (DHA)** mediated modulation of pro- and anti-inflammatory protein expression after focal cerebral ischemia in rats. *Society for Neuroscience* 2009.
 1004. **Bazan NG: Neuroprotectin D1** downregulates amyloidogenic processing of amyloid- β precursor protein and the initiation and propagation of neuroinflammation. *11th Intl Conf on Bioactive Lipids in Cancer, Inflammation, and Related Diseases*, Cancun, Mexico, October 25-28, 2009.
 1005. Gordon WC, Ertel MK, Zhou Y, Sheets KG, **Bazan NG:** Onset of photoreceptor degeneration in the Ccl2^{-/-} / Cx3cr1^{-/-} mouse model of age-related macular degeneration is preceded by endoplasmic reticulum stress. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1006. Niemoller T, Belayev L, Mukherjee P, Calandria J, Khoutorova L, Farge J, Atkins K Atkins, **Bazan NG:** Docosahexaenoic acid (**DHA**) modulates survival signaling after focal cerebral ischemia in rats. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1007. Musto AE, **Bazan NG:** Platelet-activating factor receptor antagonism during epileptogenesis. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1008. Regan CE, Sheets KG, Gordon WC, **Bazan NG:** Photoreceptor cell degeneration in the Ccl2^{-/-} / Cx3cr1^{-/-} mouse model of age-related macular degeneration. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1009. Stark DY, **Bazan NG:** Synaptic activity modulates lipid mediator responses to N-methyl-D-aspartate excitotoxicity. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1010. Sheets KG, Zhou Y, Ertel M.K. Knott EJ, Regan CE, Jr., Gordon WC, **Bazan NG:** **Neuroprotectin D1** attenuates laser-induced choroidal neovascularization in an experimental model of the wet age-related macular degeneration. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1011. Zhou Y, Gordon WC, Elison JR, Chan C-C, Tuo J, **Bazan NG:** Retinal imaging of Ccl2/Cx3cr1-deficient AMD-like mice, with high resolution spectral domain optical coherence tomography and confocal scanning laser ophthalmoscope reveals retinal changes and photoreceptor loss in vivo. *Louisiana NCRR/IDeA 2010 Biomedical Research Symposium*, Baton Rouge, LA, January 22, 2010.
 1012. Belayev L, **Bazan NG**, Khoutorova L, Atkins KD, Niemoller T, Moore AF, Davidoff AW: Neuroprotective effect of human chorionic gonadotropin in transient focal cerebral ischemia in rats. *International Stroke Conference 2010*, San Antonio, TX, February 24-15, 2010.
 1013. Bazan HEP, He J, **Bazan NG:** Architecture of human corneal nerves in health and pathologic eyes. *Suppl Invest Ophthalmol Vis Sci 2010*.
 1014. Calandria JM, Mukherjee P, **Bazan NG:** Extended glutamine tract protein expression in RPE cells induce proteotoxic-stress and apoptosis that is prevented by **neuroprotectin D1**. *Suppl Invest*

- Ophthalmol Vis Sci 2010.*
1015. Ertel MK, Sheets KG, Zhou Y, Chan C-C, Tuo J, Gordon WC, **Bazan NG**: Endoplasmic reticulum stress precedes photoreceptor degeneration in *Ccl2^{-/-}/Cx3dc1^{-/-}* mice. *Suppl Invest Ophthalmol Vis Sci 2010*.
1016. He J, **Bazan NG**, Bazan HEP: An immunofluorescence study of corneal nerves in diabetes. *Suppl Invest Ophthalmol Vis Sci 2010*.
1017. Kenchegowda S, Zhang C, **Bazan NG**, Bazan HEP: Stimulation of **neuroprotectin D1 (NPD1)** synthesis by pigment epithelium derived factor (PEDF) in human corneal epithelial cells. *Suppl Invest Ophthalmol Vis Sci 2010*.
1018. Knott EJ, Zhou Y, Sheets KG, Gordon WC, **Bazan NG**: Photoreceptor loss in the light damaged mouse retina: Evaluation by ocular coherence tomography and histological sections. *Suppl Invest Ophthalmol Vis Sci 2010*.
1019. Lentz JJ, Farris H, Gordon WC, **Bazan NG**: Proteomic analysis reveals downregulated expression of protective proteins in the *Ush1c216Aa* knock-in retina. *Suppl Invest Ophthalmol Vis Sci 2010*.
1020. Lukiw WJ, Mukherjee PK, Cui JG, **Bazan NG**: Up-regulation of micro-RNA-125b (chr 11q24; chr 21q21) in retinoic acid-induced, and in aging, retinal pigment epithelial (ARPE-19) cells. *Suppl Invest Ophthalmol Vis Sci 2010*.
1021. Mukherjee PK, **Bazan NG**: Upregulation of proinflammatory genes (Cox-2 and B-94) under the influence of mutant glutamine expansion inhibited by **NPD1** and PEDF/DHA in human retinal pigment epithelium cells (HRPE). *Suppl Invest Ophthalmol Vis Sci 2010*.
1021. Sheets KG, Ertel MK, Zhou Y, Gordon WC, Gjorstrup P, **Bazan NG**: Cell specific targeting by NPD1 induces resolution of CNV injury. *Suppl Invest Ophthalmol Vis Sci 2010*.
1022. **Bazan NG**: Omega-3 essential **fatty acid** signaling regulates initiation and progression of neurodegenerative diseases. *101st AOCS Annual Meeting and Expo*, Phoenix, AZ, May 16-19, 2010.
1023. Bazan NG: Nutrition, synaptic circuitry and memory areas: Sterospecific mediators of essential omega-3 **fatty acids**. *National Institute of Drug Abuse, Addiction and Nutrition Workshop*, Rockville, MD, June 3-4, 2010.
1024. Musto AE, Quebedeaux TM, **Bazan NG**: Epileptiform activities as early markers for epileptogenesis. *3rd Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE)*, June 16-18, 2010, Bethesda, MD.
1025. Musto AE, Quebedeaux TM, **Bazan NG**: Targeting neuroinflammation in epilepsy: PAF antagonism reduces seizure susceptibility and limits somatostatin cell loss. *3rd Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE)*, June 16-18, 2010, Bethesda, MD.
1026. Musto AE, Quebedeaux TM, **Bazan NG**: **Neuroprotectin D1**-mediated hippocampal interneuronal protectin in seizure-induced damage. *3rd Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE)*, June 16-18, 2010, Bethesda, MD.
1027. **Bazan NG**: The **docosahexaenoic acid**-derived mediator **neuroprotectin D1** modulated signaling critical in the initiation and progression of neurodegenerations. *FASEB Summer Research Conference, "Phospholipid Metabolism: Disease, Signal Transduction, and Membrane Dynamics"*, Steamboat Springs, Colorado, June 27-July 2, 2010.
1028. **Bazan NG**: Downregulation or amyloidogenic processing of amyloid- β -precursor protein via PPAR β and or pro-inflammatory effect by **neuroprotectin D1**. *European Brain Res Inst (EBRI), DZNE and Cell Death & Disease Intl Conf in honor of Rita Levi-Montalcini, "From Synapses to Neurodegeneration"*, Aula Marconi, Piazzale Aldo Moro, Rome, Italy, July 12-13, 2010.
1029. **Bazan NG**: **Neuroprotectin D1** regulates phosphorylation status of BCl.xl and Akt pathways for RPE cell survival. *XIVth International Symposium on Retinal Degeneration*, Mont-Tremblant, Quebec, Canada, July 13-17, 2010.
1030. **Bazan, NG**: Homeostatic signaling and inflammatory resolution during oxidative stress in the RPE

- cell. *XIX Biennial meeting of the Intl Soc for Eye Res (ISER)*, Montreal, Canada, July 18-23, 2010.
1031. **Bazan NG:** Mediators lipidomics in stroke, epilepsy, macular degeneration and Alzheimer's translational research. *National Center for Research Resources, Symp State of Metabolomics Technologies in Translational Research*, Bethesda, MD September 17, 2010.
1032. **Bazan NG: Neuroprotectin D1 (NPD1)** is a sentinel in early stages of age-related macular degeneration (AMD) and Alzheimer's disease (AD). *First Biennial Symp on Age-related Macular Degeneration*, Boston, MA, September 30-October 2, 2010.
1033. **Bazan NG:** Mediators lipidomics uncovers key survival signaling in Alzheimer's disease and experimental stroke. *GERLI2010 7th Lipidomics Congress: Lipids in All States*, Anglet-Biarritz, France, October 3-6, 2010.
1034. Belayev LS, Khoutorova L, Niemoller T, Atkins K, Obenaus A, Hayes P, Titova E, **Bazan NG:** Neuroprotective effect of LAU-0901, a novel platelet-activating factor receptor antagonist, in focal cerebral ischemia in rats: Characterization by sequential magnetic resonance imaging and behavior. *Society for Neuroscience*, November 13-17, 2010, San Diego, CA.
1035. Belayev L, Khoutorova L, Atkins KD, Eady TD, Obenaus A, **Bazan NG: Docosahexaenoic acid** rescues the penumbra after ischemic stroke in rats. *American Heart Association Intl Stroke Conf 2011*, February 9-11, Los Angeles, CA.
1036. **Bazan NG: Omega-3 fatty acids** and neurodegenerative diseases. *University of Missouri Translational Neuroscience Symposium*, February 27-March 1, 2011, Columbia, Missouri.
1037. **Bazan NG:** Docosanoids, stereospecific mediators from **DHA** are sentinels for homeostatic cell survival in stroke and Alzheimers disease. *ASN S06 Jordi Folch Pi Memorial Symposium*, March 20-21, 2011, St. Louis, Missouri.
1038. **Bazan NG: Docosahexaenoic acid (DHA)** in stroke, Alzheimer's disease, and blinding retinal degenerations: Coping with neuroinflammation and sustaining cell survival. *The Chevreul Medal 2011, Journées Chevreul 2011 Lipid and Brain*, March 28-30, 2011, Paris, France.
1039. **Bazan NG:** Initiation and progression of AMD, Glaucoma and Alzheimer's disease (AD): What can we learn from understanding shared disease mechanisms in order to devise therapies of the future? *Special Interest Group (SIG) Suppl Invest Ophthalmol Vis Sci 2011*.
1040. Calandria JM, **Bazan NG:** Pro-inflammatory Wnt5a gene transcription is regulated by **neuroprotectin D1** in retinal epithelial cells: A pro-survival signaling pathway. *Suppl Invest Ophthalmol Vis Sci 2011*.
1041. Cortina MS, He J, Russ T, **Bazan NG**, Bazan HE: Topical treatment with **neuroprotectin D1** increases corneal nerve regeneration after experimental surgery. *Suppl Invest Ophthalmol Vis Sci 2011*.
1042. Elison J, Zhou Y, Lentz JJ, Gordon WC, **Bazan NG:** Lau-0901 modulation of inflammatory cytokine signaling in a rat model of Lps-induced uveitis. *Suppl Invest Ophthalmol Vis Sci 2011*.
1043. Farris HE, Lentz JJ, Varnishung C, Gordon WC, **Bazan NG:** Ush1c216aa knock-in mice have slow photoreceptor adaptation. *Suppl Invest Ophthalmol Vis Sci 2011*.
1044. Gordon WC, Knott EJ, Sheets KG, Regan CE, **Bazan NG:** Müller cell reactive gliosis contributes to retinal degeneration in Ccl2-/-/Cx3cr1-/-Mice. *Suppl Invest Ophthalmol Vis Sci 2011*.
1045. Knott EJ, Gordon WC, **Bazan NG: Docosahexaenoic acid** pretreatment protects Arpe-19 cells from subsequent oxidative stress. *Suppl Invest Ophthalmol Vis Sci 2011*.
1046. Lentz JJ, Jokelka FM, Gordon WC, Hastings ML, **Bazan NG:** The *Ush1c216G>* A splice site mutation results in the accumulation of harmonin in the retina. *Suppl Invest Ophthalmol Vis Sci 2011*.
1047. Lukiw WJ, Zhao Y, Bhattacharjee S, Cui JG, **Bazan NG:** Elevated expression of a pro-inflammatory NF- κ -B-regulated micro RNA-146a (miRNA-146a) in the primary visual cortex of late-stage Alzheimer's disease (AD). *Suppl Invest Ophthalmol Vis Sci 2011*.
1048. McCaffrey KE, Hinrich AJ, Jodelka FM, Lentz JL, **Bazan NG**, Rigo F, Bennett F, Hastings ML:

- Blocking cryptic splicing in Usher syndrome using antisense oligonucleotides. *Suppl Invest Ophthalmol Vis Sci* 2011.
1049. Mukherjee PK, Cefalu J, **Bazan NG**: the p38 kinase involved in interleukin-1 β /lipopolysaccharide-mediated cyclooxygenase-2 induction is selectively inhibited by **neuroprotectin D1 (NPD1)** in RPE cells. *Suppl Invest Ophthalmol Vis Sci* 2011.
1050. Russ TC, He J, Neumann D, **Bazan NG**, Bazan HEP: Stimulation of neurite outgrowth in culture trigeminal ganglion cells by **neuroprotectin D1**. *Suppl Invest Ophthalmol Vis Sci* 2011.
1051. Sheets KG, Jun B, Zhou Y, Winkler J, Zhu M, Petasis N, Gordon WC, **Bazan NG**: Topical **neuroprotectin D1** attenuates experimental CNV and induces activated microglial redistribution. *Suppl Invest Ophthalmol Vis Sci* 2011.
1052. Zhou Y, Sheets KG, Knott EJ, Reagan Jr CE, Tuo J, Chan C-C, Gordon WC, **Bazan NG**: *In vivo* retinal degeneration assessment by 3D optical coherence tomography in the Ccl/cx2cr-1-deficient mouse. *Suppl Invest Ophthalmol Vis Sci* 2011.
1053. **Bazan NG**: The homeostatis bioactivity of **DHA** and docosanoids in brain function. *NIDA, Neuroscience Consortium, Nutrition & Addiction: An Update Miniworkshop*, June 2, 2011, Rockville, MD.
1054. **Bazan NG**: Cell survival signaling in experimental stroke and Alzheimer's disease: Omega-3 **fatty acids** and docosanoids bioactivity. *Neuroscience School of Advanced Studies for the Course on Neurodegeneration and Molecular Neuropathology, San Quirico d'Orcia, Tuscany*, June 13-25, 2011.
1055. Belayev L, Khoutorova L, Atkins KD, Obenaus A, Eady TN, Coleman DD, **Bazan NG**: Docosahexaenoic acid complexed to albumin provides neuroprotection after experimental stroke in aged rats. *Society for Neuroscience*, November 12-16, 2011, Washington, DC.
1056. **Bazan NG**, Khoutorova L, Eady TN, Atkins KD, Obenaus A, Belayev L: **Docosahexaenoic acid** in combination with aspirin enhances neuroprotection in the postischemic brain. *Society for Neuroscience* November 12-16, 2011, Washington, DC.
1057. Eady T, Belayev L, Khoutorova L, Atkins L, Zhang C, **Bazan NG**: Systemically injected docosahexaenoic acid or **neuroprotectin D1** induces AKT phosphorylation signalin, protects the ischemic penumbra, and results in neurobehavioral recovery after experimental stroke. *Society for Neuroscience* November 12-16, 2011, Washington, DC.
1058. Belayev L, Khoutorova L, Atkins KD, Eady TD, **Bazan NG**: A novel therapeutic strategy for experimental stroke using **docosahexaenoic acid** complexed to human albumin. *American Heart Association, American Stroke Association, Intl Stroke Conf 2012*, February 1-3, 2012, New Orleans, LA.
1059. Belayev L, Khoutorova L, Atkins KD, Eady TD, Obenaus A, **Bazan NG**: **Docosahexaenoic acid** rescues the penumbra after ischemic stroke in rats. *American Heart Association, American Stroke Association, Intl Stroke Conf 2012*, February 1-3, 2012, New Orleans, LA.
1060. **Bazan NG**, Serhan CN, Petasis NA, Khoutorova L, Atkins KD, Eady TD, Hong S, Jun B, Obenaus A, Belayev L: Aspirin-triggered **neuroprotectin D1** protects the penumbra in focal cerebral ischemia in rats. *American Heart Association, American Stroke Association, Intl Stroke Conf 2012*, February 1-3, 2012, New Orleans, LA.
1061. Asatryan A, Calandria JM, **Bazan NG**: **Neuroprotectin D1** is a transcriptional modulator of the Birc3 gene that encodes an inhibitor of apoptosis protein in retinal pigment epithelial cells. *Suppl Invest Ophthalmol Vis Sci* 2012.
1062. Balaszcuk V, Mukherjee PK, **Bazan NG**: Iduna is a **neuroprotectin D1 (npd1)** target in retinal pigment epithelial cell survival signaling. *Suppl Invest Ophthalmol Vis Sci* 2012.
1063. **Bazan NG**: Choroidal neovascularization: Role of **neuroprotectin D1**. *Symposium Suppl Invest Ophthalmol Vis Sci* 2012.
1064. **Bazan NG**: Mediator lipidomics in the cornea and retina: Targets for modulation of inflammation,

- neuroprotection and nerve regeneration. *Special Interest Group (SIG) Suppl Invest Ophthalmol Vis Sci 2012.*
1065. **Bazan NG**, Berry KZ, Gordon WC, Knott EJ, Regan CE Jr, Murphy PC, Jun B: Spatial distribution of lipid molecular species in photoreceptors and other cells by MALDI imaging mass spectrometry of the human retina. *Suppl Invest Ophthalmol Vis Sci 2012.*
1066. Calandria JM, **Bazan NG**: Ataxin-1 poly-q-induced proteotoxic stress and apoptosis are attenuated by **docosahexaenoic acid**-derived **neuroprotectin D1** in human retinal pigment epithelial cells. *Suppl Invest Ophthalmol Vis Sci 2012.*
1067. Caviness LA, Mukherjee PK, Knott EJ, **Bazan NG**: Characterization of primary cultures from adult retinal pigment epithelial cells (hrpe) and protection mediated by **docosahexaenoic acid (dha)**. *Suppl Invest Ophthalmol Vis Sci 2012.*
1068. Cortina MS, He J, Russ T, Erickson J, **Bazan NG**, Bazan HE: Corneal nerve damage induces epithelial localization of vesicular glutamate transporter-2 (vglu2). *Suppl Invest Ophthalmol Vis Sci 2012.*
1069. Gordon WC, Knott EJ, **Bazan NG**: **Docosahexaenoic acid** potentiates pigment epithelium derived factor-induced protection in ARPR-19 cells. *Suppl Invest Ophthalmol Vis Sci 2012.*
1070. Jun B, Knott EJ, Zhang C, **Bazan NG**: The further opening of the **DHAs** metabolome in retinal pigment epithelial (RPE) cells: Maresin synthesis diverges from **NPD1** synthesis by enhanced oxidative stress. *Suppl Invest Ophthalmol Vis Sci 2012.*
1071. Kenchegowda S, Zang, **Bazan NG**, Bazan HE: Increased release of pigment epithelial-derived factor after corneal injury stimulated **neuroprotectin D1** synthesis. *Suppl Invest Ophthalmol Vis Sci 2012.*
1072. Knott EJ, Grodon WC, **Bazan NG**: **Docosahexaenoic acid** is incorporated into ARPE-19 cells and involves modulation of pro-and anti-apoptotic proteins pMAPK, pAKT308, and BIM. *Suppl Invest Ophthalmol Vis Sci 2011.*
1073. Lentz JJ, Jokelka FM, Hinrich AJ, McCaffrey KE, Farris HE, **Bazan NG**, Duelli DM, Rigo F, Hasting ML: Correction of cryptic splicing in Usher síndrome using antisense oligonucleotides. *Suppl Invest Ophthalmol Vis Sci 2012.*
1074. Li S, Izumi T, Lee J, Zhou Y, Gordon, WC, Hill JM, **Bazan NG**, Miner JH, Hin M: Elongation of very long chain **fatty acids** protein 1 (ELOVL1) and **fatty acid** transport protein 4 (FATP4) are inhibitors of RPE65. *Suppl Invest Ophthalmol Vis Sci 2012.*
1075. Manalac J, Mukherjee PK, **Bazan NG**: Pigment epithelial derived factor (PEDF) and docosahexaenoic acid (**DHA**) induce antioxidant responsive element (ARE) upregulation in retinal pigment (ARPE-19) cells. *Suppl Invest Ophthalmol Vis Sci 2012.*
1076. Mukherjee PK, Litner DE, Alvarez-Builla J, **Bazan NG**: Interleukin a β -mediated upregulation of proinflammatory genes are selectively inhibited by a platelet-activating factor antagonist in human retinal pigment epithelial cells. *Suppl Invest Ophthalmol Vis Sci 2012.*
1077. Russ TC, He, **Bazan NG**, Bazan HEP: **NPD1** and PEDF + **DHA** enhance neurite outgrowth and projection of trigeminal ganglion neurons towards corneal epithelial cells. *Suppl Invest Ophthalmol Vis Sci 2012.*
1078. Sheets KG, Gordon WC, **Bazan NG**: Topical **NPD1** promotes microglial ramification in experimental CNV. *Suppl Invest Ophthalmol Vis Sci 2012.*
1079. Stark DT, Knott EJ, **Bazan NG**: The morphonuclear analysis imaging method (MAIM): an unbiased approach to quantifying in ARPE-19 cells demonstrates **NPD1**-induced inhibition of cell death. *Suppl Invest Ophthalmol Vis Sci 2012.*
1080. Hagel S, Werner D, Chiappinelli B, Rohner N, Afshordel S, Eckert S, Kogel D, **Bazan NG**, Eckert GP: Fish oil improves mitocondrial function in brain of aged mice. *10th Congress of the International Society for the Study of **Fatty Acids** and Lipids*, May 26-30, 2012, Vancouver, Canada.

1081. **Bazan NG: DHA:** A sentinel for neuroprotection and brain repair. *GEOD Exchange 2012*, Boston, Massachesettes, June 6-8, 2012.
1082. **Bazan NG:** Neuroinflammation and omega-3 in synaptic circuitry: New targets for neuroprotection. *International Summer School of Neuroscience X*, July 7-13, 2012, Catania.
1083. **Bazan NG: Neuroprotectin D1 (NPD1)** and RPE signaling in retinal degenerations. *RD2012, XVth International Symposium on Retinal Degeneration*, Bad Gogging, Bavaria, Germany.
1084. **Bazan NG** Calandria J, Mukherjee PK: **Neuroprotectin D1** modulates protein misfolding-induced proteotoxic stress in retinal pigment epithelial cells. *ISER 2012, XX Biennial meeting International Society for Eye Research*, Berlin, Germany.
1085. Asatryan A, Calandria JM, **Bazan NG**: Transcriptional activation of BIRC3, a versatile modulator of apoptosis by **neuroprotectin D1** in retinal pigment epithelial cells. *Society for Neuroscience* October 13- 17, 2012, New Orleans, LA.
1086. **Bazan NG: Neuroprotectin D1** mediates cell survival in an *in vitro* model of Parkinson's disease. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1087. Bender V, Mukherjee PK, **Bazan NG**: Effect of **NPD1** treatment of Induna expression after oxidative-stress in retinal pigment epithelial cells. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1088. Calandria J, Asatryan A, **Bazan NG: Neuroprotectin D1** mediates dendritic arbor integrity in an *in vitro* model of Parkinson's disease. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1089. Hong S-H, Khoutorova L, Atkins KD, Belayev L, Obenaus A, **Bazan NG**: Long-term neurological improvement by systemically administered **docosahexaenoic acid** in experimental focal cerebral ischemia. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1090. Knott EJ, Gordon W, **Bazan NG**: Pigment epithelium derived factor-induced neuroprotection is bolstered by docosahexaenoic acid and stimulates docosanoid production. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1091. Musto AE, Quebedeaux T, Walker CP, Khoobehi D, **Bazan NG: Neuroprotectin D1** attenuates aberrant neuronal networks in epileptogenesis. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1092. Rossi JL, Todd T, **Bazan NG**, Belayev L: Inhibition of myosin light chain kinase attenuates cerebral edema and preserves neurologic function in young mice following traumatic brain injury. *Society for Neuroscience* October 13-17, 2012, New Orleans, LA.
1093. Hong S-H, Khoutorova L, Anzola D, Wu Q, June B-K, **Bazan NG**, Belayev L: Protection against blood-brain barrier disruption in focal cerebral ischemia by **docosahexaenoic acid**. *International Stroke Conference* February 6-8, 2013.
1094. **Bazan NG.** 3rd Annual Gladstone/DZNE Workshop "From Science to Therapeutics: The Best Way Forward", Mission Bay, San Francisco, CA. Title: An Unexpected Connection between Neuroinflammation and Cell Survival: The Lipidomic Signature as a Target" April 15-17, 2013
1095. **Bazan NG.** ISN-ASN Satellite Meeting on "Unveiling the Significance of Lipid Signaling in Neurodegeneration and Neuroprotection", Cancun, Mexico. Title: "Is There a Molecular Login that Sustains Neuronal Functional Integrity and Survival?" Lipid Signaling is Necessary for Neuroprotective Neuronal Transcriptional Programs" April 17-19, 2013
1096. **Bazan NG.** ARVO, Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL. Title: "Docosahexaenoic acid Bolters mild Oxidative Stress Preconditioning in Retinal Epithelial Cells" May 5-9, 2013
1097. **Bazan NG.** May 20-21, 2013 – Chairman and Organizer; 5th International Conference on Phospholipase A2-Mediated Signaling in Translational Medicine, New Orleans, LA. Title: "PLA2 and Lipid-Derived Mediators in Stroke, Alzheimer's Disease, Parkinson's Disease and Age-Related Macular Degeneration"

1098. **Bazan NG.** Advanced Course on Learning and Memory, Cortona, Tuscany. Title: "Lipid Signaling in Synaptic Circuitry" June 20-28, 2013
1099. **Bazan NG.** Pioneers in Neuroscience, Buffalo, New York. Title: "The Challenge of Deciphering Early Responses to Neurodegenerative Diseases: Novel Mechanisms for Neuronal Survival" September 15-17, 2013
1100. **Bazan NG.** EVER, European Association for Vision and Eye Research, Nice, France. Title: "Molecular Sensors to Homestatic Departures in Retinal Pigment Epithelium: Lessons to Understand and Treat Retinal Degenerative Diseases" September 18-21, 2013
1101. **Bazan NG.** Mossakowski Medical Research Centre, Polish Academy of Sciences Committee of Neurological Sciences, Polish Academy of Sciences, Neurochemical Conference, Warsaw, Poland. Title: "Early Survival Signaling Responses to Neurodegenerative Diseases: Significance for New Therapies and Diagnosis" October 24-25, 2013
1102. **Bazan NG.** Society for Neuroscience, San Diego, CA. Title: "CREL is an Intracellular Messenger of the Essential Docosahexaenoic Acid-Derived Mediator Neuroprotectin D1 in RPE Cell Survival" November 9-13, 2013
1103. **Bazan NG.** Third International Epilepsy Research Center (EpiCenter) Symposium, Hyatt Regency Newport Beach, CA. Title: "Hippocampal Synaptic Network Modulation by the Bioactive Mediator Neuroprotectin D1 Derived from Excitable Membrane Lipids" February 20-22, 2014.
1104. **Bazan NG.** Massachusetts Eye and Ear Infirmary and Harvard Medical School Department of Ophthalmology Seminar Series, Boston, MA. Title: "Molecular Principles and Sensor for Decoding Homeostasis Disruptions in the Retinal Pigment Epithelium: Implications to Retinal Degenerative Diseases" February 28, 2014
1105. **Bazan NG.** The 15th International Winter Eicosanoid Conference, Baltimore, MD. Title: "Phospholipase A2 Activation in Generating Neuroprotectin D1 on Demand upon Responses to Injury in the Brain and Retina" March 9-11, 2014
1106. **Bazan NG.** 4th Annual Gladstone/DZNE Workshop, Bonn, Germany. May 10-13, 2014
1107. **Bazan NG.** Advancing Neuroscience at MU, Symposium to Honor Professor Grace Y. Sun, Columbia, Missouri. Title: "Early Survival Signaling Responses to Neurodegenerative Diseases – Significance for New Therapies and Diagnosis" June 26-28, 2014
1108. **Bazan NG.** Karolinska Institute Lipid Seminar at ISSFAL 2014 in Stockholm, Sweden. Title: "Omega-3 Fatty Acids in CNS ischemia and Neurodegenerative Diseases" June 28, 2014
1109. **Bazan NG.** 5th International Congress on Stem Cells and Tissue Formation in Dresden, Germany. Title: "Non-redundant Transcriptional Target for Cell Survival of the Essential Docosahexaenoic Acid derived Mediator Neuroprotectin D1" July 8-11, 2014
1110. **Bazan NG.** XVI International Symposium on Retinal Degeneration (RD 2014), Pacific Grove, California. Title: "Novel Molecular Principles for Decoding Homeostasis Disruptions in the Retinal Pigment Epithelium: Significance to Retinal Degenerative Diseases" July 13-18, 2014
1111. **Bazan NG.** XXI Biennial Conference of the International Society for Eye Research. (ISER), San Francisco, CA. Title: "CREL is an Intracellular Messenger of the Essential Docosahexaenoic Acid-Derived Mediator Neuroprotectin D1 in RPE Cell Survival" July 20-22, 2014
1112. **Bazan NG.** Lipid Mediators in Health and Disease A Tribute to Bengt Samuelsson, Stockholm, Sweden. Title: "Lipid Mediators in Vision and Neuroprotection" August 27-29, 2014
1113. **Bazan NG.** DZNE Scientific Retreat, Schorfheide, Germany. Keynote Lecture. Title: "Lipid Mediators in Vision, Neuronal Plasticity and Neuroprotection" September 24-26, 2014
1114. **Bazan NG.** Oklahoma Nathan Shock Center for Excellence in the Biology of Aging and Oklahoma Center for Neuroscience/Dean McGee Eye Institute Special Seminar, Oklahoma City, OK. Title: "Molecular Principles of Neuroinflammatory Signaling: Significance in Vision and Neuroprotection" October 4-7, 2014
1115. **Bazan NG.** Visit to Karolinska Institutet and present a Seminar in Stockholm, Sweden. Title:

"Unraveling Molecular Principles of Neuronal Survival: Significance in Vision and Neuroprotection" November 29-December 3, 2014

- 1116. Anthony M. DiGiorgio, Erin S. Fannin, Eric Knott, Caroline L. Davidson, Rachel H. Kopkin, Janet L. Rossi, Bok Kyoo Jun, Brenda B. Chiappinelli, Shelly Mullenix, Marisa Fromica, Jacques Courseault, Vincent Shaw, Stephen Etheridge, **Nicolas G. Bazan**, Frank Culicchia, Larry H. Hollier: Experimental design to assess blood biomarkers in concussed collegiate football players: A matched cohorts study. Congress of Neurological Surgeons meeting, New Orleans, LA, January 16-17, 2015.
- 1117. **Nicolas G. Bazan**: Phospholipase A2 and neuroprotectin D1 in experimental ischemic stroke and epilepsy. The 10th IGAKUKEN International Symposium on "Phospholipase A2 and Lipid Mediators". Tokyo, Japan, February 9, 2015
- 1118. **Nicolas G. Bazan**: Molecular principles for retention specificity and function of docosahexaenoic acid in the retina and brain: A necessary, integral membrane protein, phospholipase A2 and neuroprotectin D1. 6th International Conference on Phospholipase A2 and Lipid Mediators (PLM2015), Tokyo, Japan, February 9-12, 2015
- 1119. **Nicolas G. Bazan**, Larissa Khoutorova, Julio Alvarez-Builla, Ludmila Belayev: Novel platelet-activating factor receptor antagonists attenuate brain injury after experimental stroke. International Stroke Conference 2015, Nashville, TN, February 11-13, 2015.
- 1120. **Nicolas G. Bazan**: Molecular principles for docosahexaenoic acid (DHA) retention specificity and cell function in the nervous system, Journees Chevreul 2015, "Lipid and Brain 3, Paris, (FIAP Jean Monnet), France, March 16-18, 2015.
- 1121. **Nicolas G. Bazan**: Alzheimer's disease is a world affairs. OHSU Brain Institute, Brain Awareness, Public Lecture Series of the Brain Awareness, Portland, Oregon, March 31, 2015
- 1122. Russell Amato, Robert Rosencrans, Francine M. Jodelka, Anthony J. Hinrich, **Nicolas G. Bazan**, Frank Rigo, Michelle L. Hastings, Jennifer J. Lentz: Early effects of antisense oligonucleotide treatment on photoreceptor function and retinal structure in a mouse model of Usher Syndrome. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
- 1123. Aram Asatryan, Jorgelina Calandria, **Nicolas G. Bazan**: NPD1 transcriptional activation of c-REL is essential to contain AIM2 and NOD-2 inflamasome formation in RPE cells ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015.
- 1124. **Nicolas G. Bazan**: Moderator, "Lipid/oxidation/ischemia reperfusion/hypoxia preconditioning". ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
- 1125. **Nicolas G. Bazan**: Moderator, "Aqueous humor dynamics, corneal disease". ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
- 1126. **Nicolas G. Bazan**, Dennis S. Rice, William C. Gordon, Jorgelina M. Calandria: The integral membrane protein adiponectin receptor 1 (Adipo-R1) is necessary to retain docosahexaenoic acid (DHA) and to sustain photoreceptor cell (PRC) integrity. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
- 1127. Jorgelina Calandria, Aram Asatryan, John Cefalu, **Nicolas G. Bazan**: HMGB1 potentiates NPD1-mediated protection to oxidative stress through the inhibition of PTPRZ1-mediated activation of the β -catenin pathway. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
- 1128. William C. Gordon, Bok Kyoo Jun, **Nicolas G. Bazan**: Phosphatidylcholine (PC) molecular species-containing very long chain polyunsaturated fatty acids (VLC-PUFAs) are altered in AMD. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
- 1129. Bok Kyoo Jun, William C. Gordon, **Nicolas G. Bazan**: Adiponectin receptor 1 (AdipoR1) is necessary for the synthesis of very long chain polyunsaturated fatty acids (VLC-PUFAs) in photoreceptor cells. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015.

1130. Eric J. Knott, Blake A. Lemoyne, **Nicolas G. Bazan**: The significance of 15 lipoxygenase-1 and docosanoid signaling in retinal ischemic preconditioning. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015.
1131. Pranab Mukherjee, **Nicolas G. Bazan**: Sirtuin 1 (SIRT1) is a neuroprotectin D1 (NPD1) target in retinal pigment epithelial cell survival signaling. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015.
1132. Robert Rosencrans, Russell J. Amato, Yongdong Zhou, **Nicolas G. Bazan**, Jennifer J. Lentz: Early changes in retinal structures in a mouse model of Usher Syndrome. ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015
1133. Swornin Man Shrestha, Jorgelina M. Calandria, Khanh Do, Jonathan D. Wren, **Nicolas G. Bazan**: Neuroprotectin D1 (NPD1) homeostatic response induces transcription events that target a NF-kB member, cREL in retinal pigment epithelial cells (RPE). ARVO, Association for Research in Vision and Ophthalmology, Denver, CO, May 3-7, 2015.
1134. **Nicolas G. Bazan**: Integral membrane protein necessary for omega-3 fatty acid retention in photoreceptor cells and neurodegeneration. Lipidomics Impact on Cancer, Metabolic and Inflammatory Diseases, LIPID MAPS Annual Meeting, LaJolla, CA, May 12-13, 2015
1135. **Nicolas G. Bazan**: Moderator, Novel approaches to neuroprotection, XXVII International Symposium on Cerebral Blood Flow, Metabolism and Function & XIIth International Conference on Quantification of Brain Function with PET, Vancouver, Canada, June 27-30, 2015.
1136. **Nicolas G. Bazan**: Molecular principles for retention specificity, cell survival bioactivity and function of docosahexaenoic acid. 56th International Conference on Bioscience of Lipids, Puerto Iguazu, Misiones, Argentina, September 22-26, 2015.
1137. **Nicolas G. Bazan**, Sung-ha Hong, Larissa Khoutorova, Andre Obenaus, Nicos A. Petasis, Ludmila Belayev: A PAF-receptor antagonist plus docosanoids leads to remarkable neuroprotectin in experimental stroke. Society for Neuroscience, October 17-21, 2015.
1138. Ludmila Belayev, Larissa Khoutorova, Andre Obenaus, Sung-ha Hong, **Nicolas G. Bazan**: Docosahexaenoic acid therapy protects the ischemic penumbra after experimental stroke in female rats. Society for Neuroscience, October 17-21, 2015.
1139. **Nicolas G. Bazan**: The significance of a novel molecular switch for the DHA lipidome in cell function and disease. The 12th Fatty Acids in Cell Signaling (FACS) Conference: From Genes to Human Physiology, Toronto, Canada, October 25-27, 2015.
1140. **Nicolas G. Bazan**: Research update: The movement toward healing the mind. 17th Annual McGinty Conference on Alzheimer's., The Mind, Memory and Music, Alzheimer's Association Oregon Chapter, Portland, Oregon, November 3, 2015.
1141. **Nicolas G. Bazan**: Molecular clues to understanding retinal degenerative diseases: Novel neuroprotection mechanisms. Gradle Lecture at World Ophthalmology Congress (WOC) of International Council of Ophthalmology, Guadalajara, Mexico, February 5-9, 2016.
1142. L. Belayev, L. Khoutorova, A. Obenaus, and N.G. Bazan. Experimental stroke during aging: Docosahexaenoic acid therapy provides robust neuroprotection. 40th International Stroke Conference. Los Angeles, CA, February 17-19, 2016
1143. **Nicolas G. Bazan**: The vulnerability of sight and cognition in aging. 12th Annual Aging Research Day, Sensory Systems in Aging, Charleston, SC, February 26, 2016.
1144. Desire Alexander; Anuradha Dhingra; William C. Gordon, Bok Kyoo Jun; **Nicolas G. Bazan**, Kathleen Boesze-Battaglia, Alvia Bragin: Loss of MREG dependent LC3 associated phagocytosis (LAP) by the RPE leads to altered intracellular lipid processing. ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
1145. Russell Amato, Robert F. Rosencrans, Francine M. Jodelka, Frederic Depreux, **Nicolas G. Bazan**, Frank Rigo, Michelle Hastings, Jennifer J. Lentz: Cumulative dosing enhances the beneficial efforts of antisense oligonucleotide treatment on visual function in a mouse model of Usher Syndrome.

- ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1146 Aram Asatryan, **Nicolas G. Bazan**: Stereoselective transcriptional modulation of inflammasome in hRPE cells by the docosanoid Neuroprotectin D1 (NPD1) ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1147 **Nicolas G. Bazan**, Bok Kyoo Jun, Bo Chang, William C. Gordon: Membrane-type frizzled related protein (MFRP) is needed for photoreceptor cell function by retaining docosahexaenoic acid (DHA). ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1148 Jorgelina Calandria, Khanh Do, Swornin Man Shrestha, **Nicolas G. Bazan**: The tyrosine phosphatase receptor PTPRZ1 inhibits β -catenin-dependent gene expression in RPE cells. ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1149 Khanh Do, Jorgelina M. Calandria, **Nicolas G. Bazan**: Neuroprotectin D1 (NPD1) modulates amyloid precursor protein (APP) processing in human retinal pigment epithelial cells (RPE). ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1150 William C. Gordon, Bok Kyoo Jun, **Nicolas G. Bazan**: Very long chain polyunsaturated fatty acids (VLC-PUFAs) in cone- and rod-rich regions of the human retina. ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1151 Bok Kyoo Jun, Robert F. Rosencrans, Hamilton E. Farris, Corinne Richards-Zawacki, William C. Gordon, **Nicolas G. Bazan**: Lipid profiling in a diurnal frog retina shows no VLC-PUFA ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1152 Azucena H. Kakazu, Bokkyoo Jun; **Nicolas G. Bazan**, Haydee E. Bazan: Synthesis of pro-homeostatic docosanoids in corneas stimulated with pigment epithelial derived factor (PEDF) or 44-mer PEDF plus docosahexaenoic acid (DHA) ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1153 Pranab K. Mukherjee, **Nicolas G. Bazan**: NeuroprotectinD1 (NPD1) mediates Sirtuin signaling in cell survival under-uncompensated oxidative stress in retinal pigment epithelial (RPE) cells. ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1154 Robert F. Rosencrans, Keith Perkins, William C. Gordon, Corinne Richards-Zawacki, **Nicolas G. Bazan**, Hamilton E. Farris: Validating optical predictions of sensitivity in vertebrate eyes. ARVO, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 1-5, 2016.
- 1155 Marcell SJ, Freitas RS, Menghani H, Belayev L, Khoutorova L, Obenaus A and Bazan NG. Docosanoid-mediated neuroprotection in experimental ischemic stroke. Lipid Mediators in Health and Disease, La Jolla, CA, May 19-20, 2016.
- 1156 Freitas SR, Marcell SJ, Menghani H, Hong SH, Khoutorova L, Obenaus A, Petasis NA, Belayev L, Bazan NG. A therapeutic approach for experimental ischemic stroke combining a PAF-receptor antagonist plus docosanoids. Lipid Mediators in Health and Disease, La Jolla, CA, May 19-20, 2016.
- 1157 Bazan NG, Mukherjee PK, Balaszczuk V, Obenaus A, Khoutorova L, Hong SH, Belayev L. Docosahexaenoic acid provides neuroprotection by upregulating Iduna expression in the ischemic penumbra after experimental stroke. Society for Neuroscience, San Diego, CA, November 12-16, 2016.
- 1158 Belayev L, Khoutorova L, Obenaus A, Bazan NG. Is docosahexaenoic acid neuroprotective after traumatic brain injury in rats? Society for Neuroscience, San Diego, CA, November 12-16, 2016.
- 1159 Belayev L Hong SH, Mukherjee PK, Menghani H, Khoutorova L. and Bazan NG. Induction Profile of Mesencephalic Astrocyte-Derived Neurotrophic Factor by Cerebral Ischemia and its Implication for Neuroprotection. 41st International Stroke Conference. Houston, TX, February 22-24, 2017.

- 1160 Bazan NG, Hong SH, Menghani H, Khoutorova L. and L. Belayev, Docosahexaenoic Acid Provides Neuroprotection by Increasing Neurogenesis After Experimental Stroke. 41st International Stroke Conference. Houston, TX, February 22-24, 2017.
- 1161 Bazan NG., Hong SH, Menghani H, Marcell S, Mukherjee PK, Khoutorova L. and Belayev L. Upregulation of mesencephalic astrocyte-derived neurotrophic factor by cerebral ischemia promotes tissue repair after experimental stroke. XXVIII International Symposium on Cerebral Blood Flow and Metabolism, Berlin, Germany, April 1-4, 2017.
- 1162 Belayev L, Khoutorova L, Pizarro Cabral LM, Marcell S, Cong L, Semikov R, Obenaus A and Bazan NG. The salutary effects of omega-3 fatty acids on cognition and tissue repair after traumatic brain injury in rats. XXVIII International Symposium on Cerebral Blood Flow and Metabolism, Berlin, Germany, April 1-4, 2017.
- 1163 Asatryan, Aram; Kautzmann, Marie-Audrey I.; Heap, Jessica; **Nicolas G. Bazan**. Single human retinal pigment epithelial (hRPE) cell analysis under oxidative stress reveals differential expression of pro-inflammatory and apoptosis related genes. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1164 **Nicolas G. Bazan**; Asatryan, Aram; Mukherjee, Pranab K.; Yang, Rong; Petasis, Nicos; Jun, Bokkyoo. The discovery of a new family of lipid mediators, the elovanoids, biosynthesized in human RPE cells. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1165 Calandria, Jorgelina M.; Do, Khanh; **Nicolas G. Bazan**. DHA-NPD1 signaling via cREL downregulates pro-inflammatory Wnt5a in RPE cells. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1166 Do, Khanh; **Nicolas G. Bazan**. Neuroprotectin D1 (NPD1) downregulates amyloid beta (A β 42) oligomer-induced senescence in human retinal pigment epithelial (RPE) cells. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1167 Fuerst, Jonathan; Kautzmann, Marie-Audrey I.; Gordon, William C.; **Nicolas G. Bazan**. Optimization of mouse photoreceptor isolation and micro-fluidic single cell capture for downstream molecular analysis. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1168 Gordon, William C; **Nicolas G. Bazan**. Early photoreceptor cell impairment upon AdipoR1 genetic ablation. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1169 Heap, Jessica; Kautzmann, Marie-Audrey I.; **Nicolas G. Bazan**. Gene signatures of single photoreceptor cells (PRC) using microfluidic technology. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1170 Jun, Bokkyoo; Kautzmann, Marie-Audrey I.; Hill, Helen E.; Patel, Uday B.; Gordon, William C.; **Nicolas G. Bazan**. Retina-specific molecular species (PC and PE) alterations by ablation of AdipoR1 or MFRP. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1171 Kautzmann, Marie-Audrey I.; Heap, Jessica; **Nicolas G. Bazan**. Transcriptomics of isolated photoreceptor cells reveal profiling of genes linked to function and retinal degeneration. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1172 Miyagishima, Kiyoharu J.; Sharma, Ruchi; Clore-Gronenborn, Katharina; Qureshy, Zoya; Jun, Bokkyoo; Gordon, William C.; Hotaling, Nathan; Zhang, Congxiao; Cukras, Catherine A.; Sieving, Paul A.; **Nicolas G. Bazan**; Miller, Sheldon S.; Bharti, Kapil. Analysis of Secretory Lipidomics and Proteomics of Late-Onset Retinal Degeneration iPSC-derived RPE. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.
- 1173 Muhale, Filipe A.; Asatryan, Aram; Heap, Jessica; Kautzmann, Marie-Audrey I.; **Nicolas G. Bazan**. Single human retinal pigmented epithelial cells (hRPE) transcriptome analysis reveals

upregulation of a subset of autophagy-related genes in response to uncompensated oxidative stress (UOS). ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.

- 1174 Mukherjee, Pranab K.; Bender, Veronica; Calandria, Jorgelina M.; **Nicolas G. Bazan**. Neuroprotectin D1 (NPD1) upregulates Iduna expression and provides protection against uncompensated oxidative stress (UOS) in Human Retinal Pigment Epithelial Cells. ARVO, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 7-11, 2017.

Papers:

1. Brauckmann ES, **Bazan NG**: Analisis histoquimico de las proteinas sulfhidriladas en el huevo de Bufo Arenarum en desarollo. *Arch Bioquim Quim y Farm*, Tucuman 11:43-54, 1963.
2. **Bazan NG**, Norton JM: Algunas contribuciones al estudio del tejido adiposo pardo de la rata. *Archa de Bioquim Quim y Farm*, Tucuman 13:101-114, 1966.
3. **Bazan NG**, Joel CD: Gradient-thickness thin-layer chromatography for the isolation and analysis of trace amounts of free **fatty acids** in large lipid samples. *J Lipid Res* 11:42-47, 1970.
4. **Bazan NG**, Rakowski H: Increased levels of brain free **fatty acids** after electroconvulsive shock. *Life Sci* 9:501-507, 1970.
5. **Bazan NG**: Effects of ischemia and electroconvulsive shock on free **fatty acid** pool in the brain. *Biochim Biophys Acta* 218:1-10, 1970.
6. **Bazan NG**, Bazan HEP de, Kennedy WG, Joel CD: Regional distribution and rate of production of free **fatty acids** in rat brain. *J Neurochem* 18:1387-1393, 1971.
7. **Bazan NG**: Free **fatty acid** production in cerebral white and grey matter of the squirrel monkey. *Lipids* 6:211-212, 1971.
8. **Bazan NG**: Changes in free **fatty acids** of brain by drug-induced convulsions, electroshock and anesthesia. *J Neurochem* 18:1379-1385, 1971.
9. **Bazan NG**: Modifications in the free **fatty acids** of developing rat brain. *Acta Physiol LatinoAmer* 21:15-20, 1971.
10. **Bazan NG**: Phospholipases A₁ and A₂ in brain subcellular fractions. *Acta Physiol LatinoAmer* 21:101-106, 1971.
11. **Bazan NG**, Cellik S: Improved separation and quantification of free **fatty acids** and other tissue lipids by gradient-thickness thin-layer chromatography. *Anal Biochem* 45:309-314, 1972.
12. Aveldano MI, **Bazan NG**: High content of docosahexaenoate and of total diacylglycerol in retina. *Biochem Biophys Res Comm* 48:689-693, 1972.
13. Aveldano MI, **Bazan NG**: **Fatty acid** composition and level of diacylglycerols and phosphoglycerides in brain and retina. *Biochim Biophys Acta* 296:1-9, 1973.
14. Crupkin M, **Bazan NG**: Protein phosphorylation level and in vivo ³²P incorporation in retina and in brain. *Brain Res* 52:378-381, 1973.
15. Giusto NM, **Bazan NG**: High increment of triglycerols with ether linkages in the retina during anoxia. *Biochem Biophys Res Comm* 55:515-521, 1973.
16. Crupkin M, Barassi CA, **Bazan NG**: Incorporation of ³²P during early amphibian embryo-genesis. *Comp Biochem Physiol* 45:523-528, 1973.
17. Pechen AM, Bonini IC, **Bazan NG**: Distributional changes of ³²P-labeled acid-soluble phosphates and phospholipids among subcellular fractions during early vertebrate embryonic development. *Biochim Biophys Acta* 372:388-399, 1974.
18. Barassi CA, **Bazan NG**: **Fatty acid** distribution in lipids and ³²P incorporation into phospholipids during early amphibian development. *Lipids* 9:27-34, 1974.
19. Aveldano MI, **Bazan NG**: Displacement into incubation medium by albumin of highly unsaturated retina free **fatty acids** arising from membrane lipids. *FEBS Letters* 40:53-56, 1974.
20. Barassi CA, **Bazan NG**: Metabolic heterogeneity of phosphoglyceride classes and subfractions during cell cleavage and early embryogenesis: Model for cell membrane biogenesis. *J Cell Physiol* 84:101-114, 1974.
21. Pechen AM, **Bazan NG**: Membrane ³²P phospholipid labeling in early developing toad embryos. *Exp Cell Res* 88:432-435, 1974.
22. Aveldano MI, **Bazan NG**: Free **fatty acids**, diacyl- and triacylglycerols and total phospholipids in vertebrate retina: Comparison with brain, choroid and plasma. *J Neurochem* 23:1127-1135, 1974.
23. Bazan HEP, **Bazan NG**: Incorporation of (³H)-arachidonic acid into cattle retina lipids: High

- uptake in triacylglycerols, diacylglycerols, phosphatidylcholine and phosphatidylinositol. *Life Sci* 17:1671-1678, 1975.
24. Aveldano MI, **Bazan NG**: Differential lipid deacylation during brain ischemia in a homeotherm and a poikilotherm. Content and composition of free **fatty acids** and triacylglycerols. *Brain Res* 100:99-110, 1975.
 25. Aveldano MI, **Bazan NG**: Rapid production of diacylglycerols enriched in arachidonate and stearate during early brain ischemia. *J Neurochem* 25:919-920, 1975.
 26. **Bazan NG**, Bazan HEP: Analysis of free and esterified **fatty acids** in neural tissues using gradient-thickness thin-layer chromatography. *Research Methods in Neurochemistry* 3:309-324, 1975.
 27. Bazan HEP, **Bazan NG**: Phospholipid composition and (¹⁴C)glycerol incorporation into glycerolipids of toad retina and brain. *J Neurochem* 27:1051-1057, 1976.
 28. **Bazan NG**, Aveldano MI, Bazan HEP, Giusto NM: Metabolism of retina acylglycerides and arachidonic acid. *Lipids* 1:89-97, 1976.
 29. Rodriguez de Turco EB, **Bazan NG**: Simple preparative and analytical thin-layer chromatographic method for the rapid isolation of phosphatidic acid from tissue lipid extracts. *J Chromatog* 137:194-197, 1977.
 30. Pechen de D'Angelo AM, **Bazan NG**: Lipid metabolism in early development using labeled precursors incorporated during oogenesis and in cell-free embryo homogenates. *Lipids* 12:131-134, 1977.
 31. Aveldano de Caldironi MI, **Bazan NG**: Alpha-methyl-p-tyrosine inhibits the production of free arachidonic acid and diacylglycerols in brain after a single electroconvulsive shock. *Neurochem Res* 4:213-221, 1979.
 32. Giusto NM, **Bazan NG**: Phospholipids and acylglycerols biosynthesis and ¹⁴CO₂ production from (¹⁴C)glycerol in the bovine retina: The effect of incubation time, oxygen and glucose. *Exp Eye Res* 29:155-168, 1979.
 33. Giusto NM, **Bazan NG**: Phosphatidic acid of retinal microsomes contains a high proportion of docosahexaenoate. *Biochem Biophys Res Comm* 91:791-794, 1979.
 34. Aveldano de Caldironi MI, **Bazan NG**: Composition and biosynthesis of molecular species of retina phosphoglycerides. *Neurochem Internat* 1:381-392, 1980.
 35. Ilincheta de Boscher MG, Giusto NM, **Bazan NG**: Biosynthesis of membrane lipids in the retina: Subcellular distribution and propranolol action on phosphatidic acid, phosphatidylserine and phosphatidylethanolamine. *Neurochem Internat* 1:17-28, 1980.
 36. Caldironi HA, **Bazan NG**: Quantitative determination of low-salt soluble protein patterns of bovine muscles cooked at different temperatures, by sodium dodecyl sulfate-polyacrylamide gel electrophoresis. *J Food Science* 45(4):901-904, 1980.
 37. **Bazan NG**, Aveldano de Caldironi MI, Rodriguez de Turco EB: Rapid release of free arachidonic acid in the central nervous system due to stimulation. *Progress in Lipid Research* 20:523-530, 1981.
 38. Bonini de Romanelli IC, Alonso TS, **Bazan NG**: Phosphatidic acid, phosphatidylinositol, phosphatidylserine and cardiolipin in the course of early embryonic development. **Fatty acid** composition and content in whole toad embryos and in mitochondrial fractions. *Biochim Biophys Acta* 664:561-571, 1981.
 39. Bazan HEP, Careaga MM, **Bazan NG**: Propranolol increases the biosynthesis of phosphatidic acid, phosphatidylinositol and phosphatidylserine in the toad retina. Studies in the entire retina and subcellular fractions. *Biochim Biophys Acta* 666:63-71, 1981.
 40. Caldironi HA, **Bazan NG**: Effect of antioxidants on malonaldehyde production and **fatty acid** composition in pieces of bovine muscle and adipose tissue stored fresh and frozen. *J Food Sci* 47:1329-1332, 1982.

41. Ilincheta de Boschero MG, **Bazan NG**: Selective modification in the de novo biosynthesis of retinal phospholipids and glycerides by propranolol or phentolamine. *Biochem Pharmacol* 31:1049-1055, 1982.
42. Alonso TS, Bonini de Romanelli IC, **Bazan NG**: Membrane lipids composition and metabolism during early embryonic development. Phospholipid subcellular distribution ^{32}P labeling. *Biochim Biophys Acta* 688:145-151, 1982.
43. **Bazan NG**, Morelli de Liberti SM, Rodriguez de Turco EB: Arachidonic acid and arachidonoyl-di-glycerides increase in rat cerebrum during bicuculline-induced status epilepticus. *Invest Ophthalmol Vis Sci* 7:839-843, 1982.
44. Bazan HEP, Careaga MM, Sprecher H, **Bazan NG**: Chain elongation and desaturation of eicosapentaenoate to docosahexaenoate and phospholipid labeling in the rat retina in vivo. *Biochim Biophys Acta* 712:123-128, 1982.
45. **Bazan NG**, di Fazio de Escalante MS, Careaga MM, Bazan HEP, Giusto NM: High content of 22:6 (docosahexaenoate) and active [$2\text{-}^3\text{H}$]glycerol metabolism of phosphatidic acid from photoreceptor membranes. *Biochim Biophys Acta* 712:702-706, 1982.
46. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Diffusion of intracerebrally injected [$1\text{-}^{14}\text{C}$]arachidonic acid and [$2\text{-}^3\text{H}$]glycerol in the mouse brain. Effects of ischemia and electroconvulsive shock. *Neurochem Res* 7:1453-1463, 1982.
47. Rodriguez de Turco EB, Morelli de Liberti S, **Bazan NG**: Stimulation of free **fatty acid** and diacylglycerol accumulation in cerebrum and cerebellum during bicuculline-induced status epilepticus. Effect of pretreatment with alpha-methyl-p-tyrosine and p-chlorophenylalanine. *J Neurochem* 40:252-259, 1983.
48. Ilincheta de Boschero MG, **Bazan NG**: Reversibility of propranolol-induced changes in the biosynthesis of monoacylglycerol, diacylglycerol, triacylglycerol, and phospholipids in the retina. *J Neurochem* 40:260-266, 1983.
49. Giusto NM, Ilincheta de Boschero MG, **Bazan NG**: Accumulation of phosphatidic acid in microsomes from propranolol-treated retinas during short-term incubations. *J Neurochem* 40:563-568, 1983.
50. Aveldano MI, **Bazan NG**: Molecular species of phosphatidylcholine, -ethanolamine, -serine and -inositol in microsomal and photoreceptor membranes of bovine retina. *J Lipid Res* 24:620-627, 1983.
51. Giusto NM, **Bazan NG**: Anoxia-induced production of methylated and free **fatty acids** in retina, cerebral cortex and white matter. Comparison with triglycerides and with other tissues. *Neurochem Pathol* 1:17-41, 1983.
52. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Effects of post decapitation ischemia on the metabolism of [^{14}C]arachidonic acid and [^{14}C]palmitic acid in the mouse brain. *Invest Ophthalmol Vis Sci* 8:835-845, 1983.
53. Aveldano MI, Pasquare de Garcia SJ, **Bazan NG**: Biosynthesis of molecular species of inositol, choline, serine, and ethanolamine glycerophospholipids in the bovine retina. *J Lipid Res* 24:628-638, 1983.
54. Rodriguez de Turco EB, **Bazan NG**: Changes in free **fatty acids** and diglycerides in mouse brain at birth and during anoxia. *J Neurochem* 41:794-800, 1983.
55. Reddy TS, **Bazan NG**: Kinetic properties of arachidonoyl-coenzyme A synthetase in rat brain microsomes. *Arch Biochem Biophys* 226:125-133, 1983.
56. Birkle DL, **Bazan NG**: Lipoxygenase and cyclooxygenase reaction products and incorporation into glycerolipids of radiolabeled arachidonic acid in the bovine retina. *Prostaglandins* 27:203-216, 1984.
57. Reddy TS, **Bazan NG**: Long-chain acyl coenzyme A synthetase activity during the postnatal development of the mouse brain. *Int J Dev Neurosci* 2:447-450, 1984.

58. Reddy TS, Sprecher H, **Bazan NG**: Long-chain acyl coenzyme A synthetase from rat brain microsomes: Kinetic studies using [1-¹⁴C]**docosahexaenoic acid** substrate. *Eur J Biochem* 145:21-29, 1984.
59. Bazan HEP, Sprecher H, **Bazan NG**: De novo biosynthesis of docosahexaenoyl phosphatidic acid in bovine retinal microsomes. *Biochim Biophys Acta* 796:11-19, 1984.
60. Birkle DL, **Bazan NG**: Effects of K⁺ depolarization on the synthesis of prostaglandins and hydroxyeicosatetra(5,8,11,14)enoic acids (HETE) in the rat retina. Evidence for esterification of 12-HETE in lipids. *Biochim Biophys Acta* 795:564-573, 1984.
61. Reddy TS, **Bazan NG**: Synthesis of arachidonoyl coenzyme A and docosahexaenoyl coenzyme A in retina. *Curr Eye Res* 3:1225-1232, 1984.
62. Reddy TS, **Bazan NG**: Activation of polyunsaturated **fatty acids** by rat tissues in vitro. *Lipids* 19:987-989, 1984.
63. Bazan HEP, **Bazan NG**: Composition of phospholipids and free **fatty acids** and incorporation of labeled arachidonic acid in rabbit cornea. Comparison of epithelium, stroma and endothelium. *Curr Eye Res* 3:1313-1319, 1984.
64. **Bazan NG**, Birkle DL, Reddy TS: **Docosahexaenoic acid** (22:6, n-3) is metabolized to lipoxygenase reaction products in the retina. *Biochem Biophys Res Comm* 125:741-747, 1984.
65. Reddy TS, **Bazan NG**: Synthesis of arachidonoyl coenzyme A and docosahexaenoyl coenzyme A in synaptic plasma membranes of cerebrum, cerebellum and brain stem of rat brain. *J Neurosci Res* 13:381-390, 1985.
66. Reddy TS, **Bazan NG**: Long chain acyl CoA synthetase in microsomes from rat brain gray matter and white matter. *Invest Ophthalmol Vis Sci* 10:377-386, 1985.
67. Bazan HEP, Birkle DL, Beuerman R, **Bazan NG**: Inflammation-induced stimulation of the synthesis of prostaglandins and lipoxygenase-reaction products in rabbit cornea. *Curr Eye Res* 4:175-179, 1985.
68. Bazan HEP, Birkle DL, Beuerman R, **Bazan NG**: Cryogenic lesion alters the metabolism of arachidonic acid in rabbit cornea layers. *Invest Ophthalmol Vis Sci* 26:474-480, 1985.
69. Van Rooijen LAA, Rossowska M, **Bazan NG**: Inhibition of phosphatidylinositol-4-phosphate kinase by its product phosphatidylinositol-4,5-bisphosphate. *Biochem Biophys Res Comm* 126:150-155, 1985.
70. Reddy TS, **Bazan NG**: Synthesis of docosahexaenoyl-, arachidonoyl- and palmitoyl-coenzyme A in ocular tissues. *Exp Eye Res* 41:87-95, 1985.
71. Reddy TS, Armstrong D, **Bazan NG**: Arachidonic acid and other long-chain **fatty acids** in canine ceroid lipofuscinosis: Distribution in glycerolipids, metabolism and pathophysiological correlations. *Neurochem Pathol* 3:83-97, 1985.
72. Bazan HEP, Careaga MM, **Bazan NG**: Decreased utilization of [2-³H]glycerol in phospholipid and neutral glyceride biosynthesis in the retina of streptozotocin-diabetic rats. *Neurochem Pathol* 3:109-118, 1985.
73. Reddy TS, **Bazan NG**: Cationic amphiphilic drugs inhibit the synthesis of long chain fatty acyl coenzyme A in rat brain microsomes. *FEBS Lett* 182:111-114, 1985.
74. Reddy TS, Birkle D, Armstrong D, **Bazan NG**: Change in content, incorporation and lipoxygenation of **docosahexaenoic acid** in retina and retinal pigment epithelium in canine ceroid lipofuscinosis. *Neurosci Lett* 59:67-72, 1985.
75. **Bazan NG**, Reddy TS, Redmond TM, Wiggert B, Chader GJ: Endogenous **fatty acids** are covalently and non covalently bound to interphotoreceptor retinoid-binding protein in the monkey retina. *J Biol Chem* 260:13677-13680, 1985.
76. Politi LE, Rodriguez de Turco EB, **Bazan NG**: Dexamethasone effect on free **fatty acid** and diacylglycerol accumulation during experimentally induced vasogenic brain edema. *Neurochem Pathol* 3:249-269, 1985.

77. Alonso TS, Bonini de Romanelli IC, **Bazan NG**: Changes in triglycerides, diglycerides and free **fatty acids** after fertilization in developing toad embryos. *Biochim Biophys Acta* 875:465-472, 1986.
78. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Reduced labeling of brain phosphatidylinositol, triacylglycerols and diacylglycerols by [$1\text{-}^{14}\text{C}$] arachidonic acid after electroconvulsive shock: Potentiation of the effect by adrenergic drugs and comparison with palmitic acid labeling. *Neurochem Res.* 11:217-230, 1986.
79. **Bazan NG**, Reddy TS, Bazan HEP, Birkle DL: Metabolism of arachidonic and **docosahexaenoic acids** in the retina. *Prog Lipid Res* 25:595-606, 1986.
80. Birkle DL, Reddy TS, Armstrong D, **Bazan NG**: Enhanced synthesis of prostaglandins and hydroxyeicosatetraenoic acids in retina from a canine model of Batten's disease. *Neurochem Pathol* 4:77-88, 1986.
81. Crosson GE, Klyce SD, Bazan HEP, **Bazan NG**: The effect of phorbol esters on the chloride secreting epithelium of the rabbit cornea. *Curr Eye Res* 5:535-541, 1986.
82. Van Rooijen LAA, Vadnal R, Dobard P, **Bazan NG**: Enhanced inositide turnover in brain during bicuculline-induced status epilepticus. *Biochim Biophys Res Comm* 136:827-834, 1986.
83. Van Rooijen LAA, **Bazan NG**: Cationic amphiphilic drugs perturb the metabolism of inositides and phosphatidic acid in photoreceptor membranes. *Biochem Biophys Res Comm* 134:378-385, 1986.
84. Van Rooijen LAA, **Bazan NG**: The inositide cycle in bovine photoreceptor membranes. *Life Sci* 38:1685-1693, 1986.
85. Reddy TS, Birkle DL, Packer AJ, Dobard P, **Bazan NG**: **Fatty acid** composition and [$1\text{-}^{14}\text{C}$]arachidonic acid metabolism in vitreous lipids from canine and human eyes. *Curr Eye Res* 5:441-447, 1986.
86. Birkle DL, Sanitato JJ, Kaufman HE, **Bazan NG**: Arachidonic acid metabolism to eicosanoids in herpes virus-infected rabbit cornea. *Invest Ophthalmol Vis Sci* 27:1443-1446, 1986.
87. Claeys M, Bazan HEP, Birkle DL, **Bazan NG**: Diacylglycerols interfere in nonnal phase HPLC analysis of lipoxygenase products of docosahexaenoic or arachidonic acids. *Prostaglandins* 32:813-827, 1986.
88. **Bazan NG**, Scott BL, Reddy TS, Pelias MZ: Decreased content of docosahexaenoate and arachidonate in plasma phospholipids in Usher's syndrome. *Biochem Biophys Res Comm* 141:600-604, 1986.
89. Birkle DL, **Bazan NG**: Effect of bicuculline-induced status epilepticus on prostaglandins and hydroxyeicosatetraenoic acids in rat brain subcellular fractions. *J Neurochem* 48:1768-1778, 1987.
90. Reddy TS, **Bazan NG**: Arachidonic acid, stearic acid and diacylglycerol accumulation correlates with the loss of phosphatidylinositol 4,5-bisphosphate in cerebrum 2 seconds after electroconvulsive shock. Complete reversion of changes 5 minutes after stimulation. *J Neurosci Res* 18:449-455, 1987.
91. Scott BL, Reddy TS, **Bazan NG**: Docosahexaenoate metabolism and **fatty acid** composition in developing retinas of normal and rd mutant mice. *Exp Eye Res* 44:101-113, 1987.
92. **Bazan NG**, Bazan HEP, Birkle DL, Rossowska M: Synthesis of leukotrienes in the frog retina and retinal pigment epithelium. *J Neurosci Res* 18:591-596, 1987.
93. O'Brien PJ, St. Jules R, Reddy TS, **Bazan NG**, Zatz M: Acylation of disc membrane rhodopsin may be non-enzymatic. *J Biol Chem* 262:5210-5215, 1987.
94. Vadnal RE, **Bazan NG**: Electroconvulsive shock stimulates polyphosphoinositide degradation and inositol trisphosphate accumulation in rat cerebrum: Lithium pretreatment does not potentiate these changes. *Neurosci Lett* 80:75-79, 1987.
95. Newsome DA, Dorsey FC, May JG, Bergsma DR, **Bazan NG**: Ganglioside administration in retinitis pigmentosa. *J Ocular Pharmacology* 3:323-332, 1987.

96. Spinnewyn B, Blavet N, Clostre F, **Bazan NG**, Braquet P: Involvement of platelet-activating factor (PAF) in cerebral post-ischemic phase in mongolian gerbils. *Prostaglandins* 34:337-349, 1987.
97. Bazan HEP, Braquet P, Reddy STK, **Bazan NG**: Inhibition of the alkali burn-induced lipoxygenation of arachidonic acid in the rabbit cornea in vivo by a platelet-activating factor antagonist. *J Ocular Pharmacology* 3:357-365, 1987.
98. Panetta T, Marcheselli VL, Braquet P, Spinnewyn B, **Bazan NG**: Effects of a platelet-activating factor antagonist (BN 52021) on free **fatty acids**, diacylglycerols, polyphosphoinositides and blood now in the gerbil brain: Inhibition of ischemia-reperfusion induced cerebral injury. *Biochem Biophys Res Comm* 149:580-587, 1987.
99. Bazan HEP, Reddy STK, Woodland JM, **Bazan NG**: The accumulation of platelet-activating factor in the injured cornea may be interrelated with the synthesis of lipoxygenase products. *Biochem Biophys Res Comm* 149:915-920, 1987.
100. Scott BL, Racz E, Lolley RN, **Bazan NG**: Developing rod photoreceptors from normal and mutant rd mouse retinas: Altered **fatty acid** composition early in development of the mutant. *J Neurosci Res* 20:202-211, 1988.
101. Gebhardt BM, Braquet P, Bazan HEP, **Bazan NG**: Modulation of in vitro immune reaction by platelet-activating factor and a platelet-activating factor antagonist. *Immunopharmacol* 15:11-20, 1988.
102. Birkle DL, **Bazan NG**: Cerebral perfusion of metabolic inactivators: A new method for rapid fixation of labile lipid pools in brain. *Invest Ophthalmol Vis Sci* 13:849-852, 1988.
103. Birkle DL, Kurian P, Braquet P, **Bazan NG**: Platelet-activating factor antagonist BN 52021 decreases accumulation of free polyunsaturated **fatty acid** in mouse brain during ischemia and electroconvulsive shock. *J Neurochem* 51:1900-1905, 1988.
104. Vadnal RE, **Bazan NG**: Carbamazepine inhibits the electroconvulsive shock-induced [H]-IP₃ accumulation in rat cerebral cortex and hippocampus. *Biochem Biophys Res Comm* 153:128-134, 1988.
105. Gebhardt BM, Braquet P, Bazan HEP, **Bazan NG**: Platelet-activating factor suppresses cell-mediated immune reactions in vitro. In: New Trends in Lipid Mediators Research, Vol 1, P Braquet (ed), Karger, Basel, Switzerland, pp 99-107, 1988.
106. Limberg MB, Birkle DL, Bazan HEP, Kaufman HE, **Bazan NG**: The effect of a new lipoxygenase inhibitor on the production of arachidonic acid metabolites during experimental herpes simplex keratitis. *Curr Eye Res* 7:1131-1135, 1988.
107. Braquet P, Spinnewyn B, Blavet M, Marcheselli VL, Rossowska M, **Bazan NG**: Platelet-activating factor as a mediator in cerebral ischemia and related disorders. *Biomed Biochim Acta* 47:S195-S218, 1988.
108. Birkle DL, **Bazan NG**: Light exposure stimulates arachidonic acid metabolism in intact rat retina and isolated rod outer segments. *Invest Ophthalmol Vis Sci* 14:185-190, 1989.
109. Scott BL, **Bazan NG**: Membrane docosahexaenoate is supplied to the developing brain and retina by the liver. *Proc Nat Acad Sci* 86:2903-2907, 1989.
110. Reinach PS, Thurman C, Bazan HEP, **Bazan NG**: Reversal of the epinephrine stimulation of Cl⁻ transport in bullfrog cornea by phorbol esters. *Exp Eye Res* 49:739-749, 1989.
111. Birkle DL, Rossowska M, Woodland J, **Bazan NG**: Increased levels of leukotriene C₄ in retinal pigment epithelium are correlated with early events in photoreceptor shedding in *Xenopus laevis*. *Curr Eye Res* 8:557-561, 1989.
112. Crook RB, **Bazan NG**, Alvarado JA, Polansky JR: Histamine stimulation of inositol phosphate metabolism in cultured human non-pigmented ciliary epithelial cells. *Curr Eye Res* 8:415-422, 1989.
113. Squinto SP, Block AL, Braquet P, **Bazan NG**: Platelet-activating factor stimulates a Fos/Jun/AP-1 transcriptional signaling system in human neuroblastoma cells. *J Neurosci Res* 24:558-566, 1989.

114. Reddy TS, Varnell ED, Beuerman RW, **Bazan NG**, Kaufman HE: Endothelial cell damage in human and rabbit corneas stored in K-Sol without antioxidants. *British J Ophth* 73:803-808, 1989.
115. Baudouin C, Gordon WC, Fredj-Reygrobellet D, Baudouin F, Peyman G, Gastaud P, **Bazan NG**: Class II antigen expression in diabetic preretinal membranes. *Amer J Ophth* 109:70-74, 1990.
116. Marcheselli VL, Rossowska M, Domingo MT, Braquet P, **Bazan NG**: Distinct platelet-activating factor binding sites in synaptic endings and in intracellular membranes of rat cerebral cortex. *J Biol Chem* 265:9140-9145, 1990.
117. Gordon WC, **Bazan NG**: **Docosahexaenoic acid** utilization during rod photoreceptor cell renewal. *J Neurosci* 10:2190-2202, 1990.
118. Bazan HEP, **Bazan NG**, Feeney-Burns L, Berman ER: Lipids in human lipofuscin-enriched subcellular fractions of two age populations: Comparison rod outer segments and neural retina. *Invest Ophthalmol Vis Sci* 31:1433-1443, 1990.
119. Quinn JH, **Bazan NG**: Identification of prostaglandin E₂ and leukotriene B₄ in the synovial fluid of painful, dysfunctional temporomandibular joint. *J Oral Maxillofac Surg* 48:968-971, 1990.
120. **Bazan NG**, de Abreu MT, Bazan HEP, Belfort R: Arachidonic acid cascade and platelet-activating factor in the network of eye inflammatory mediators: Therapeutics implications in uveitis. *International Ophth* 14:335-344, 1990.
121. Marcheselli VL, **Bazan NG**: Quantitative analysis of **fatty acids** in phospholipids, diacylglycerols, free **fatty acids**, and other lipids. *J Nutr Biochem* 1(7):382-388, 1990.
122. Squinto SP, Braquet P, Block AL, **Bazan NG**: Platelet-activating factor activates HIV promoter in transfected SH-SY5Y neuroblastoma cells and MOLT-4 T lymphocytes. *J Mol Neurosci* 2:79-84, 1990.
123. Doucet JP, Squinto SP, **Bazan NG**: FOS-JUN and the primary genomic response in the nervous system: Physiological role and pathophysiological significance. *Mol Neurobiol* 4:27-55, 1990.
124. Baudouin C, Fredj-Reygrobellet D, Gordon WC, Baudouin F, Peyman G, Lapalus P, Gastaud P, **Bazan NG**: Immunohistological study of epiretinal membranes in proliferative vitreoretinopathy. *Am J Ophth* 110:593-598, 1990.
125. Rodriguez de Turco EB, Gordon WC, Peyman GA, **Bazan NG**: Preferential uptake and metabolism of **docusahexaenoic acid** in membrane phospholipids from rod and cone photoreceptor cells of human and monkey retinas. *J Neurosci Res* 27:522-532, 1990.
126. Sheu F-S, Marais RM, Parker PJ, **Bazan NG**, Routtenberg A: Neuron-specific protein F1/GAP-43 shows substrate specificity for the beta subtype of protein kinase C. *Biochem Biophys Res Commun* 171:1236-1243, 1990.
127. Baudouin C, Gastaud P, Gordon WC, Lapalus P, **Bazan NG**, Righini M, Peyman GA: Etude immunohistologique des membranes épitrétiniennes au cours de la rétinopathie diabétique proliférative et du décollement de rétine avec prolifération vitréo-rétinienne. *Ophthalmologie* 4:53-5, 1990.
128. Baudouin C, Fredj-Reygrobellet D, Peyman GA, Lapalus P, Gordon B, **Bazan NG**, Gastaud P: Etude immunohistologique des membranes néovasculaires sous-rétiniennes au cours des dégénérescences maculaires liées à l'âge. *Ophthalmologie* 5:61-64, 1991.
129. Gilboe DD, Kinter D, Fitzpatrick JH, Emoto SE, Esanu A, Braquet PG, **Bazan NG**: Recovery of postischemic brain metabolism and function following treatment with a free radical scavenger and platelet-activating factor antagonists. *J Neurochem* 56:311-319, 1991.
130. Lin N, Bazan HEP, Braquet P, **Bazan NG**: Prolonged effect of a new platelet-activating factor antagonist on ocular vascular permeability in an endotoxin model of uveitis. *Curr Eye Res* 10:19-24, 1991.
131. Hurst JS, Balazy M, Bazan HEP, **Bazan NG**: The epithelium, endothelium, and stroma of the rabbit cornea generate 12-S-hydroxyeicosatetraenoic acid as the main lipoxygenase metabolite in response to injury. *J Biol Chem* 266:6726-6730, 1991.

132. **Bazan NG**, Quinto SP, Braquet P, Panetta T, Marcheselli VL: Platelet-activating factor and polyunsaturated **fatty acids** in cerebral ischemia or convulsions: Intracellular PAF-binding sites and activation of a Fos/Jun/AP-1 transcriptional signaling system. *Lipids* 26:1236-1242, 1991.
133. Balazy M, Braquet P, **Bazan NG**: Determination of platelet-activating factor and alkyl-ester phospholipids by gas chromatography-mass spectrometry via direct derivation. *Anal Biochem* 196:1-10, 1991.
134. Crook RB, **Bazan NG**, Polansky JR: Histamine H₁ receptor occupancy triggers inositol phosphates and intracellular calcium mobilization in human non-pigmentary ciliary epithelial cells. *Curr Eye Res* 10:593-600, 1991.
135. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Rapid and selective uptake, metabolism, and cellular distribution of **docosahexaenoic acid** among rod and cone photoreceptor cells in the frog retina. *J Neurosci* 11:3667-3678, 1991.
136. Kang I, Miller LG, Moises J, **Bazan NG**: GABA_A receptor mRNAs are increased after electroconvulsive shock. *Psychopharmacol Bull* 27:359-363, 1991.
137. Miller LG, **Bazan NG**, Roy BR, Clostre F, Gaver A, Braquet P: Platelet activating factor antagonists interact with GABA_A receptors. *Res Commun Chem Pathol Pharmacol* 74:253-256, 1991.
138. Bazan HEP, Allan G, **Bazan NG**: Enhanced expression of growth-regulated calcyclin gene during corneal wound healing. *Exp Eye Res* 55(1):173-177, 1992.
139. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Light stimulates in vivo inositol lipid turnover in frog retinal pigment epithelial cells at the onset of shedding and phagocytosis of photoreceptor membranes. *Exp Eye Res* 55:719-725, 1992.
140. Martin RE, **Bazan NG**: Growth-associated protein GAP-43 and nerve cell adhesion molecule in sensory nerves in cornea. *Exp Eye Res* 55(2):307-314, 1992.
141. Martin RE, **Bazan NG**: Changing **fatty acid** content of growth cone lipids prior to synaptogenesis. *J Neurochem* 59:318-325, 1992.
142. Clark GD, Happel LT, Zorumski CF, **Bazan NG**: Enhancement of hippocampal excitatory synaptic transmission by platelet-activating factor. *Neuron* 9:1211-1216, 1992.
143. Kunievsky B, **Bazan NG**, Yavin E: Generation of arachidonic acid and diacylglycerol second messengers from polyphosphoinositides in ischemic fetal brain. *J Neurochem* 59(5):1812-1819, 1992.
144. Rihm LL, Vissioli F, Rodriguez de Turco EB, Kreisman NR, **Bazan NG**: Free **fatty acid** and diacylglycerol levels are related to cerebral O₂ during seizures. In: *Role of Neurotransmitters in Brain Injury*, Dietrich WD, Globus MY-T (eds), Plenum Press, NY, pp 247-252, 1992.
145. Baudouin C, Peyman GA, Fredj-Reygrobellet D, Gordon WC, Lapalus P, Gastaud P and **Bazan NG**: Immunohistological study of subretinal membranes in age-related macular degeneration. *Japan J Ophth* 36:443-451, 1992.
146. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Retinal pigment epithelial cells play a central role in the conservation of **docosahexaenoic acid** by photoreceptor cells after shedding and phagocytosis. *Curr Eye Res* 11:73-83, 1992.
147. **Bazan NG**, Zorumski CF, Clark GD: The activation of phospholipase A₂ and release of arachidonic acid and other lipid mediators at the synapse: The role of platelet-activating factor. *J Lipid Med* 6:421-427, 1993.
148. **Bazan NG**, Allan G, Rodriguez de Turco EB: Role of phospholipase A₂ and membrane-derived lipid second messengers in excitable membrane function and transcriptional activation of genes: Implications in cerebral ischemia and neuronal excitability. *Prog in Brain Res* 96:247-257, 1993.
149. **Bazan NG**, Gordon WC, Rodriguez de Turco EB: The uptake, metabolism, and conservation of **docosahexaenoic acid** (22:6 ω 3) in brain and retina: Alterations in liver and/or retinal 22:6 metabolism during inherited progressive retinal degeneration. *Amer Oil Chem Soc* pp. 107-115,

- 1993.
150. Gordon WC, **Bazan NG**: Visualization of [³H]docosahexaenoic acid trafficking through photoreceptors and retinal pigment epithelium by electron microscope autoradiography. *Invest Ophthalmol Vis Sci* 34:2402-2411, 1993.
 151. Pratt JS, Kang I, **Bazan NG**, Miller LG: Electroconvulsive shock alters GABA_A receptor subunit mRNAs: Use of quantitative PCR methodology. *Brain Res Bulletin* 30:691-702, 1993.
 152. Bazan HEP, Tao Y, **Bazan NG**: Platelet-activating factor induces collagenase expression in corneal epithelial cells. *Proc Natl Acad Sci* 90:8678-8682, 1993.
 153. Rodriguez de Turco EB, Droy-Lefaix MT, **Bazan NG**: Decreased electroconvulsive shock-induced diacylglycerols and free **fatty acid** accumulation in the rat brain by Ginkgo biloba extract (EGb 761): Selective effect in hippocampus as compared with cerebral cortex. *J Neurochem* 61:1438-1444, 1993.
 154. Visioli F, Rihn LL, Rodriguez de Turco EB, Kreisman NR, **Bazan NG**: Free **fatty acid** and diacylglycerol accumulation in rat brain during recurrent seizures in relation to cortical oxygenation. *J Neurochem* 61:1835-1842, 1993.
 155. Katsura K, Rodriguez de Turco EB, Folbergrová J, **Bazan NG**, Siesjö BK: Coupling among energy failure, loss of ion homeostasis, and phospholipase A₂ and C activation during ischemia. *J Neurochem* 61:1677-1684, 1993.
 156. Cohen RA, Gebhardt BM, **Bazan NG**: Modulación de la respuesta de rechazo de aloinjerto de córnea por antagonista del factor de activación plaquetaria. *Arch Oftal De BS AS* 68:175-183, 1993.
 157. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: Pathways for the uptake and conservation of **docosahexaenoic acid** in photoreceptors and synapses: Biochemical and autoradiographic analysis. *Can J Physiol Pharmacol* 71(9):690-698, 1993.
 158. Kato K, Clark GD, **Bazan NG**, Zorumski CF: Platelet activating factor as a potential retrograde messenger in Ca¹ hippocampal long-term potentiation. *Nature* 367:175-179, 1994.
 159. Marcheselli VL, **Bazan NG**: Platelet-activating factor is a messenger in the electroconvulsive shock-induced transcriptional activation of c-fos and zif-268 in hippocampus. *J Neurosci Res* 37:54-61, 1994.
 160. Martin RE, Rodriguez de Turco EB, **Bazan NG**: Developmental maturation of hepatic n-3 polyunsaturated **fatty acid** metabolism: Supply of **docosahexaenoic acid** to retina and brain. *J Nutr Biochem* 5:151-160, 1994.
 161. Bazan HEP, Hurst JS, **Bazan NG**: Differences in the acyl composition of the platelet-activating factor (PAF) precursor and other choline phosphoglycerides of the rabbit retinal rod outer segments and neural retina. *Curr Eye Res* 13:45-50, 1994.
 162. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Docosahexaenoic acid is taken up by the inner segment of frog photoreceptors leading to an active synthesis of docosahexaenoyl-inositol lipids: Similarities in metabolism in vivo and in vitro. *Curr Eye Res* 13:21-28, 1994.
 163. Cohen RA, Gebhardt BM, **Bazan NG**: A platelet-activating factor antagonist reduces corneal allograft inflammation and neovascularization. *Curr Eye Res* 13:139-144, 1994.
 164. Sun D, Kintner D, Fitzpatrick JH, Emoto SE, Braquet PG, **Bazan NG**, Gilboe DD: The effect of a free radical scavenger and platelet-activating factor antagonist on FFA accumulation in post-ischemic canine brain. *Neurochemical Res* 19(4): 525-528, 1994.
 165. **Bazan NG**, Fletcher BS, Herschman HR, Mukherjee PK: Platelet-activating factor and retinoic acid synergistically activate the inducible prostaglandin synthase gene. *Proc Natl Acad Sci* 91:5252-5256, 1994.
 166. Visioli F, Rodriguez de Turco EB, **Bazan NG**: Daily electroconvulsive shock treatment alters the inositol lipid system response in the rat hippocampus. *Invest Ophthalmol Vis Sci* 19:705-708, 1994.
 167. Santos FF, Nehemy MB, **Bazan NG**, Peyman GA: Modelo experimental para produção de descolamento de retina regmatogênico. *Revista Brasileira de Oftalmologia* 53:7-10, 1994.

168. Jerusalinsky D, Fin C, Quillfelot JA, Beatriz CF, Schmitz PK, Da Silva RC, Walz R, **Bazan NG**, Medina JH, Izquierdo I: Effect of antagonists of platelet-activating factor receptors on memory of inhibitory avoidance in rats. *Behav and Neural Biol* 62:1-3, 1994.
169. Clark GD, Happel LT, Zorumski CF, **Bazan NG**: The role of platelet-activating factor in the release of excitotoxic neurotransmitters. *J Lipid Med* 10:95-97, 1994.
170. **Bazan NG**, Rodriguez de Turco, EB: Pharmacological manipulation of docosahexaenoic-phospholipid biosynthesis in photoreceptor cells: Implications in retinal degeneration. *J Ocular Pharm* 10(3):591-604, 1994.
171. Visioli F, Rodriguez de Turco EB, Kreisman NR, **Bazan NG**: Membrane lipid degradation is related to interictal cortical activity in a series of seizures. *Metab Brain Dis* 9:161-70, 1994.
172. Tao Y, Bazan HEP, **Bazan NG**: Platelet-activating factor induces the expression of metalloproteinases-1 and -9 but not -2 or -3 in the corneal epithelium. *Invest Ophthalmol Vis Sci* 36(2):345-354, 1995.
173. Izquierdo I, Fin C, Schmitz PK, Da Silva RC, Jerusalinsky D, Quillfeldt JA, Ferreira MBG, Medina JH, **Bazan NG**: Memory enhancement by intrahippocampal, intraamygdala, or intraentorhinal infusion of platelet-activating factor measured in an inhibitory avoidance task. *Proc Natl Acad Sci USA* 92:5047-5051, 1995.
174. **Bazan NG**, Rodriguez de Turco EB: Platelet-activating factor is a synapse messenger and a modulator of gene expression in the nervous system. *Neurochem Int* 26(5):435-441, 1995.
175. **Bazan NG**, Rodriguez de Turco EB, Allan G: Mediators of injury in neurotrauma: Intracellular signal transduction and gene expression. *J Neurotrauma* 12(5):791-814, 1995.
176. Santos FF, Rodriguez de Turco EB, Gordon WC, Peyman GA, **Bazan NG**: Alterations in rabbit retina lipid metabolism induced by detachment: Decreased incorporation of [³H]DHA in phospholipids. *International Ophthalmology* 19(3):149-159, 1996.
177. Marcheselli VL, **Bazan NG**: Sustained induction of prostaglandin endoperoxide synthase-2 by seizures in hippocampus: Inhibition by a platelet-activating factor antagonist. *J Biol Chem* 271:24794-24799, 1996.
178. Ershov AV, Lukiw WJ, **Bazan NG**: Selective transcription factor induction in retinal pigment epithelial cells during photoreceptor phagocytosis. *J Biol Chem* 271:28458-28462, 1996.
179. Beuckmann CT, Gordon WC, Kanaoka Y, Eguchi N, Marcheselli VL, Gershchenko DY, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin-type prostaglandin D synthase (β -trace) is located in pigment epithelial cells of rat retina and accumulates within interphotoreceptor matrix. *J Neurosci* 16:6119-6124, 1996.
180. Kolko M, DeCoster MA, Rodriguez de Turco EB, **Bazan NG**: Synergy by secretory phospholipase A₂ and glutamate on inducing cell death and sustained arachidonic acid metabolic changes in primary cortical neuronal cultures. *J Biol Chem* 271:32722-32728, 1996.
181. Packard MG, Teather L, **Bazan NG**: Effects of intrastratial injections of platelet-activating factor and the PAF antagonist BN 52021 on memory. *Neurobiol Learn Mem* 66:176-182, 1996.
182. Tao Y, Bazan HEP, **Bazan NG**: Platelet-activating factor enhances urokinase-type plasminogen activator (uPA) gene expression in corneal epithelium. *Invest Ophthalmol Vis Sci* 37:2037-2046, 1996.
183. **Bazan NG** and Allan G: Platelet activating factor in the modulation of excitatory amino acid neurotransmitter release and of gene expression. *J Lipid Mediat Cell Signal* 14:321-330, 1996.
184. Lukiw WJ, Rogaei EI, **Bazan NG**: Synaptic and cytoskeletal RNA message levels in sporadic alzheimer neocortex. *Alzheimer's Research* 2:221-228, 1996.
185. Paubert-Braquet M, Richardson FO, Servent-Saez N, Gordon WC, Monge MC, **Bazan NG**, Authie D, Braquet P: Effect of serenoa repens extract (Permixon) on estradiol/testosterone-induced experimental prostate enlargement in the rat. *Pharmacol Res* 34(3-4):171-9, 1996.
186. Rodriguez de Turco EB, Deretic D, **Bazan NG**, Papermaster D: Post-golgi vesicles cotransport

- docosahexaenoyl-phospholipids and rhodopsin during frog photoreceptor membrane biogenesis. *J Biol Chem* 272:10491-10497, 1997.
187. **Bazán NG**, Rodríguez de Turco EB: Biología molecular en neurología: Mensajeros, expresión de genes y apoptosis. *XX Jornadas Cararias de Alergia e Immunologia Clinica*, pp. 333-339, 1997
 188. **Bazan NG**, Packard MG, Teather L, Allan G: Bioactive lipids in excitatory neurotransmission and neuronal plasticity. *Neurochem Int* 30:1-7, 1997.
 189. Homayoun P, Rodriguez de Turco EB, Parkins NE, Lane DC, Soblosky J, Carey ME, **Bazan NG**: Delayed phospholipid degradation in rat brain after traumatic brain injury. *J Neurochem* 69:199-205, 1997.
 190. **Bazan NG**, Gordon WC, Marcheselli VL, Lukiw WJ, Duhault J, Koenig-Berard E, Linn DM, DeCoster MA, Mukherjee PK: Experimental models and their use in studies of diabetic retinal microangiopathy. *Pharmacologie Thérapie* 52:447-451, 1997.
 191. Lukiw WJ, **Bazan NG**: Cyclooxygenase 2 RNA message abundance, stability and hypervariability in sporadic Alzheimer neocortex. *J Neurosci Res* 50:937-945, 1997.
 192. **Bazan NG**, Horrocks LA: A great neurochemist of our time. *Neurochem Res* 22:1175-7, 1997.
 193. Bazan HEP, Tao Y, DeCoster MA, **Bazan NG**: Platelet-activating factor induces cyclooxygenase-2 gene expression in corneal epithelium. Requirement of calcium in the signal transduction pathway. *Invest Ophthalmol Vis Sci* 38:2492-2501, 1997.
 194. Geraschenko DY, Beuckmann CT, Marcheselli VL, Gordon WC, Kanaoka Y, Eguchi N, Urade Y, Hayaishi O, **Bazan NG**: Localization of lipocalin-type prostaglandin D synthase (β -trace) in iris, ciliary body, and eye fluids. *Invest Ophthalmol Vis Sci* 39:198-203, 1998.
 195. Lukiw WJ, Palacios Pelaez R, Martinez J, **Bazan NG**: Budesonide epimer R or dexamethasone selectively inhibit PAF- or IL-1 β -induced DNA-binding activity of cis-acting transcription factors and cyclooxygenase-2 gene expression in human epidermal keratinocytes. *Proc Natl Acad Sci* 95:3914-3919, 1998.
 196. DeCoster MA, Mukherjee PK, Davis RJ, **Bazan NG**: Platelet-activating factor is a downstream messenger of kainate-induced activation of mitogen-activated protein kinases in primary hippocampal neurons. *J Neurosci Res* 53:297-303, 1998.
 197. Cook JL, Marcheselli VL, Alam J, Deininger PL, **Bazan NG**: Temporal changes in gene expression following cryogenic rat brain injury. *Molecular Brain Research* 55:9-19, 1998.
 198. Lukiw WJ, **Bazan NG**: Strong nuclear factor-kappaB-DNA binding parallels cyclooxygenase-2 (COX-2) gene transcription in aging and in sporadic Alzheimer's disease (AD) superior temporal lobe neocortex. *J Neurosci Res* 53:583-592, 1998.
 199. Geraschenko D, Beuckmann CT, Kanaoka Y, Eguchi N, Gordon WC, Urade Y, **Bazan NG**, Hayaishi O: Dominant expression of rat prostanoid DP receptor mRNA in leptomeninges, inner segments of photoreceptor cells, iris epithelium, and ciliary processes. *J Neurochem* 71:937-45, 1998.
 200. Feldman JD, Vician L, Crispino M, Tocco G, Marcheselli VL, **Bazan NG**, Baudry M, Herschmann HR: KID-1, a protein kinase induced by depolarization in brain. *J Biol Chem* 273:16535-16543, 1998.
 201. Ogden F, DeCoster MA and **Bazan NG**: Recombinant plasma-type platelet-activating factor acetylhydrolase attenuates NMDA-induced hippocampal neuronal apoptosis. *J Neurosci Res* 53:677-684, 1998.
 202. Lukiw WJ, LeBlanc HA, Carver LA, McLachlan DRC, **Bazan NG**: Run-on gene transcription in human neocortical nuclei. Inhibition by nanomolar aluminum and implications for neurodegenerative disease. *J Mol Neurosci* 11: 67-78, 1998.
 203. Cook JL, Marcheselli VL, Alam J, Deininger PL, **Bazan NG**: Simultaneous analysis of multiple gene expression patterns as a function of development, injury or senescence. *Brain Research Protocols* 3:1-6, 1998.

204. Chandrasekher G, **Bazan NG**, Bazan HEP: Selective changes in protein kinase C (PKC) isoform expression in rabbit corneal epithelium during wound healing. Inhibition of corneal epithelial repair by PKC α antisense. *Exp Eye Res* 67:603-610, 1998.
205. Teather LA, Packard MG, **Bazan NG**: Effects of posttraining intrahippocampal injections of platelet-activating factor and PAF antagonists on memory. *Neurobiol of Learning and Memory* 70:349-63, 1998.
206. Mukherjee PK, DeCoster MA, Campbell FZ, Davis RJ, **Bazan NG**: Glutamate receptor signaling interplay modulates stress-sensitive mitogen-activated protein kinases and neuronal cell death. *J Biol Chem* 274:6493-6498, 1999.
207. Lukiw WJ, Martinez J, Palacios-Pelaez R and **Bazan NG**. The interleukin-1 type 2 receptor gene displays immediate early gene responsiveness in glucocorticoid-induced human epidermal keratinocytes. *J Biol Chem* 274:8630-8638, 1999.
208. DeCoster MA, Schableman E, Tombran-Tink J, **Bazan NG**: Neuroprotection by pigment epithelial-derived factor against glutamate toxicity in developing primary hippocampal neurons. *J Neurosci Res* 56:604-610, 1999.
209. Rodriguez de Turco EB, Parkins N, Ershov AV, **Bazan NG**: Selective retinal pigment epithelial cell lipid metabolism and remodeling conserves photoreceptor **docosahexaenoic acid** following phagocytosis. *J Neurosci Res* 57:479-486, 1999.
210. Kolko M, Bruhn T, Christensen T, Lazdunski M, Lambeau G, **Bazan NG**, Diemer NH: Secretory phospholipase A₂ potentiates glutamate-induced rat striatal neuronal cell death in vivo. *Neurosci Letters* 274:167-170, 1999.
211. Serou M, DeCoster MA, **Bazan NG**: Interleukin-1 beta activates expression of cyclooxygenase-2 and inducible nitric oxide synthase in primary hippocampal neuronal culture: Platelet-activating factor as a preferential mediator of cyclooxygenase-2 expression. *J Neurosci Res* 58:593-598, 1999.
212. Ershov AV, **Bazan NG**: Induction of cyclooxygenase-2 gene expression in retinal pigment epithelium cells by photoreceptor rod outer segment phagocytosis and growth factors. *J Neurosci Res* 58:254-261, 1999.
213. Chen C, **Bazan NG**: Platelet-activating factor inhibits ionotropic GABA receptor activity in cultured hippocampal neurons. *NeuroReport* 10:3831-3835, 1999.
214. Homayoun P, Parkins N, Soblosky J, Carey ME, Rodriguez de Turco EB, **Bazan NG**: Cortical impact injury in rats promotes a rapid and sustained increase in polyunsaturated free **fatty acids** and diacylglycerols. *Neurochemical Res* 25:269-76, 2000.
215. Ershov AV, **Bazan NG**: Photoreceptor phagocytosis selectively activates PPAR γ expression in retinal pigment epithelial cells. *J Neurosci Res* 60:328-337, 2000.
216. Lukiw WJ, **Bazan NG**: Neuroinflammatory signaling upregulation in Alzheimer's disease. *Neurochem Res* 25(9/10):1173-1184, 2000.
217. Lukiw WJ, Carver LA, LeBlanc HJ, **Bazan NG**: Analysis of 1184 gene transcript levels in Alzheimer Ca1 hippocampus: Synaptic signaling and transcription factor deficits and upregulation of pro-inflammatory pathways. *Alzheimer's Report* 3:161-167, 2000.
218. Lukiw WJ, Rogaez EI, **Bazan NG**: Potential of transcriptional coordination of nine genes associated with Alzheimer's disease. *Alzheimer's Report* 3:233-245, 2000.
219. Ershov AV, Parkins N, Lukiw WJ, **Bazan NG**: Modulation of early response gene expression by prostaglandins in cultured rat retinal pigment epithelium cells. *Curr Eye Res* 21:968-974, 2000.
220. Katsura K, Rodriguez de Turco EB, Kristián T, Folbergrová J, **Bazan NG**, Siesjö BK: Alterations in lipid and calcium metabolism associated with seizure activity in the postischemic brain. *J Neurochem* 75:2521-2527, 2000.
221. Chen C, Magee JC, Marcheselli VL, Hardy M, **Bazan NG**: Attenuated long-term potentiation in hippocampal dentate gyrus neurons of mice deficient in the platelet-activating factor receptor. *J Neurophysiol* 85:384-390, 2001.

222. Lukiw WJ, Gordon WC, Rogaei EI, Thompson H, **Bazan NG**: Presenilin-2 (PS2) expression up-regulation in a model of retinopathy of prematurity and pathoangiogenesis. *NeuroReport* 12:53-57, 2001.
223. Rodriguez de Turco EB, Tang W, Tophan MK, Sakane F, Marcheselli VL, Chen C, Taketomi A, Prescott SM, **Bazan NG**: Diacylglycerol kinase ε regulates seizure susceptibility and long-term potentiation through arachidonoyl-inositol lipid signaling. *Proc Natl Acad Sci* 98:4740-4745, 2001.
224. Kaufman HE, Varnell ED, Toshida H, Kanai A, Thompson HW, **Bazan NG**: Effects of topical unoprostone and latanoprost on acute and recurrent herpetic keratitis in the rabbit. *Am J Ophthalmol* 131:643-646, 2001.
225. Teather LA, Packard MG, **Bazan NG**: Differential interaction of platelet-activating factor and NMDA receptor function in hippocampal and dorsal striatal memory processes. *Neurobiol Learn Memory* 75:310-324, 2001.
226. Hill JM, Lukiw WJ, Gebhardt BM, Higaki S, Loutsch JM, Myles ME, Thompson HW, Kwon BS, **Bazan NG**, Kaufman HE: Gene expression analyzed by microarrays in HSV-1 latent mouse trigeminal ganglion following heat stress. *Virus Genes* 23: 273-280, 2001.
227. Chen C, Magee JC, **Bazan NG**: Cyclooxygenase-2 regulates prostaglandin E₂ signaling in hippocampal long-term synaptic plasticity. *J Neurophysiol* 87:2851-2857, 2002.
228. DeCoster MA, Lambeau G, Lazdunski M, **Bazan NG**: Secreted phospholipase A₂ potentiates glutamate-induced calcium increase and cell death in primary neuronal cultures. *J Neurosci Res* 67:634-645, 2002.
229. Rodriguez de Turco EB, Jackson FR, DeCoster MA, Kolko M, **Bazan NG**: Glutamate signaling and secretory phospholipase A₂ modulate the release of arachidonic acid from neuronal membrane. *J Neurosci Res* 68:558-567, 2002.
230. Teather LA, Packard MA, **Bazan NG**: Post-training cyclooxygenase-2 (COX) inhibition impairs memory consolidation. *Learning and Memory* 9:41-47, 2002.
231. Deo DD, Axelrad TW, Robert EG, Marcheselli VL, **Bazan NG**, Hunt JD: Phosphorylation of STAT-3 in response to basic fibroblast growth factor occurs through a mechanism involving platelet-activating factor, JAK-2, and Src in human umbilical vein endothelial cells: Evidence for a dual kinase mechanism. *J Biol Chem* 277(24):21237-21245, 2002.
232. **Bazan NG** and Lukiw WJ: Cyclooxygenase-2 and presenilin-1 gene expression induced by interleukin-1β and amyloid β42 peptide is potentiated by hypoxia in primary human neural cells. *J Biol Chem* 277:30359-30367, 2002.
233. Parker MA, Bazan HEP, Marcheselli VL, Rodriguez de Turco EB, **Bazan NG**: Platelet-activating factor induces permeability transition and cytochrome c release in isolated brain mitochondria. *J Neurosci Res* 68:39-50, 2002.
234. Kolko M, Nielsen M, **Bazan NG**, Diemer N: Secretory phospholipase A₂ induces delayed neuronal COX-2 expression as compared to glutamate. *J Neurosci Res* 69:169-177, 2002.
235. Gordon WC, Casey DM, Lukiw WJ, **Bazan NG**: DNA damage and repair in light-induced photoreceptor degeneration. *Invest Ophthalmol Vis Sci* 43:3511-3521, 2002.
236. Colangelo V, Schurr J, Ball MJ, Palacios Pelaez R, **Bazan NG**, Lukiw WJ: Gene expression profiling of 12633 genes in Alzheimer hippocampal CA1: Transcription and neurotrophic down-regulation and up-regulation of apoptotic and proinflammatory signaling. *J Neurosci Res* 7:462-473, 2002.
237. Rodriguez de Turco EB, Belayev L, Liu Y, Busti R, Parkins N, **Bazan NG**, Ginsberg MD: Systemic **fatty acid** responses to transient focal cerebral ischemia: Influence of neuroprotectant therapy with human albumin. *J Neurochem* 83:515-524, 2002.
238. Riazanskaia N, Lukiw WJ, Grigorenko A, Korovaitseva G, Dvoryanchikov G, Molliaka Y, Nicolaou M, Farrer L, **Bazan NG**, Rogaei EI: Regulatory region variability in the human presenilin-2 (PSEN2) gene: Potential contribution to the gene activity and risk for AD. *Molecular Psychiatry*

- 7:891-8, 2002.
239. Gélinas DS, Bernatchez PN, Rollin S, **Bazan NG**, Sirois MG: Immediate and delayed VEGF-mediated NO synthesis in endothelial cells: Role of PI3K, PKC and PLC pathways. *British Journal of Pharmacology* 137:1021-1030, 2002.
240. **Bazan NG** and Flower RJ: Medicine: Lipid signals in pain control. *Nature* 420:135-138, 2002.
241. Pappolla MA, Smith MA, Brynat-Thomas T, **Bazan N**, Petanceska S, Perry G, Thal LJ, Sano M, Refolo LM: Cholesterol, oxidative stress and Alzheimer's disease. *Free Radic Biol Med* 33(2):173-81, 2002.
242. Rodriguez de Turco EB, Jackson FR, DeCoster MA, Kolko M, **Bazan NG**: Glutamate signaling and secretory phospholipase A2 modulate the release of arachidonic acid from neuronal membranes. *J Neurosci Res* 68:558-567, 2002.
243. Kolko M, Rodriguez de Turco EB, Diemer NH, **Bazan NG**: Secretory PLA2-mediated neuronal cell death involves glutamate ionotropic receptors. *NeuroReport* 13:1963-1966, 2002.
244. Chen C, **Bazan NG**: Acetaminophen modifies hippocampal synaptic plasticity via a presynaptic 5-HT₂ receptor. *NeuroReport* 14:743-747, 2003.
245. Tu B, **Bazan NG**: Hippocampal kindling epileptogenesis upregulates neuronal cyclooxygenase-2 expression in neocortex. *Expermental Neurol* 179:167-175; 2003.
246. Kolko M, Rodriguez de Turco EB, Diemer NH, **Bazan NG**: Neuronal damage by secretory phospholipase A₂: Modulation by cytosolic phospholipase A₂, platelet-activating factor, and cyclooxygenase-2 in neuronal cells in culture. *Neuroscience Lett* 338:164-168, 2003.
247. Marcheselli VL, Hong S, Lukiw WJ, Tian XH, Gronert K, Musto A, Hardy M, Gimenez JM, Chiang N, Serhan CN, **Bazan NG**: Novel docosanoids inhibit brain ischemia-reperfusion-mediated leukocyte infiltration and pro-inflammatory gene expression. *J Biol Chem* 278:43807-43817, 2003.
248. Lukiw WJ, Ottlecz A, Lambrou G, Grueninger M, Finley J, Thompson HW, **Bazan NG**: Coordinate activation of HIF-1 and NF-κB DNA binding and COX-2 and VEGF expression in retinal cells by hypoxia. *Invest Ophthalmol Vis Sci* 44:4163-4170, 2003.
249. McDermott C, LaHoste GJ, Chen C, Musto A, **Bazan NG**, Magee JC: Sleep deprivation causes behavioral, synaptic, and membrane excitability alterations in hippocampal neurons. *J Neurosci* 23:9687-9695, 2003.
250. Axelrad TW, Deo DD, Ottino P, Van Kirk J, **Bazan NG**, Bazan HEP, Hunt JD: Platelet-activating factor (PAF) induces activation of matrix metalloproteinase 2 activity and vascular endothelial cell invasion and migration. *FASEB J.* 18:568-70, 2004.
251. Deo DD, **Bazan NG**, Hunt JD: Activation of platelet-activating factor (PAF) receptor-coupled Gα_q leads to stimulation of Src and focal adhesion kinase (FAK) via two separate pathways in human umbilical vein endothelial cells (HUVEC). *J Biol Chem* 279:3497-3508, 2004.
252. Rollin S, Lemieux C, Maliba R, Favier J, Villeneuve LR, Allen BG, Soker S, **Bazan NG**, Merhi Y, Sirois MG: VEGF-mediated endothelial P-selectin translocation: Role of VEGF receptors and endogenous PAF synthesis. *Blood* 103:3789-3797, 2004.
253. Mukherjee PK, Marcheselli VL, Serhan CN, **Bazan NG**: **Neuroprotectin D1**: A docosahexanoic acid-derived docosatriene protects human retinal pigment epithelial cells from oxidative stress. *Proc Natl Acad Sci, USA* 101:8491-8496, 2004.
254. Row BW, Kheirandish L, Li RC, Guo SZ, Brittan KR, Hardy M, **Bazan NG**, Gozal D: Platelet activating factor receptor-deficient mice are protected from experimental sleep apnea-induced spatial learning deficits. *J Neurochem* 89:189-96, 2004.
255. Esquenazi S, He Jiucheng, Bazan HEP, **Bazan NG**: Prevention of experimental diffuse lamellar keratitis using a novel platelet-activating factor receptor antagonist. *J Cataract Refract Surg* 30:884-891, 2004.
256. Ottino P, Finley J, Rojo E, Ottlecz A, Lambrou GN, Bazan HE, **Bazan NG**: Hypoxia activates matrix metalloproteinase expression and the VEGF system in monkey choroid-retinal endothelial

- cells. Involvement of cytosolic phospholipase A (2) activity. *Mol Vis* 10:341-50, 2004.
257. Zhu P, DeCoster MA, **Bazan NG**: Interplay among platelet-activating factor, oxidative stress, and group I metabotropic, glutamate receptors modulates neuronal survival. *J Neurosci Res* 77:525-531, 2004.
258. Kolko M, Christoffersen NR, Barreiro SG, **Bazan NG**: Expression and location of mRNAs encoding multiple forms of secretory phospholipase A₂ in the rat retina. *J Neurosci Res* 77:517-524, 2004.
259. Ruskin DN, Liu C, Dunn KE, **Bazan NG**, LaHoste GJ: Sleep deprivation impairs hippocampus-mediated contextual learning but not amygdale-mediated cued learning in rats. *European Journal of Neuroscience* 19: 3121-3124, 2004.
260. Ma X, Ottino P, Bazan HE, **Bazan NG**: Platelet-activating factor (PAF) induces corneal neovascularization and upregulates VEGF expression in endothelial cells. *Invest Ophthalmol Vis Sci* 45:2915-21, 2004.
261. Cui JC, Kuroda H, Chandrasekharan NV, Pelaez RP, Simmons DL, **Bazan NG**, Lukiw WJ: Cyclooxygenase-3 gene expression in Alzheimer hippocampus and in stressed human neural cells. *Neurochem Res* 29: 1731-7, 2004.
262. Katsura K, Rodriguez de Turco EB, Siesjö BK, **Bazan NG**: Effects of hyperglycemia and hypercapnia on lipid metabolism during complete brain ischemia. *Brain Res* 1030:133-40, 2004.
263. Belayev L, Marcheselli VL, Khoutorova L, Rodriguez de Turco EB, Busto R, Ginsberg MD, **Bazan NG**: Docosahexaenoic acid complexed to albumin elicits high-grade ischemic neuroprotection. *Stroke* 36:118-23, 2005.
264. Zhu P, Genc A, Zhang X, Zhang J, **Bazan NG**, Chen C: Heterogeneous expression and regulation of hippocampal PGE₂ receptors. *J Neurosci Res* 81:817-826, 2005.
265. Sharma GD, Ottino P, **Bazan NG**, Bazan HE: Epidermal and hepatocyte growth factors, but not keratinocyte growth factor, modulate protein kinase C α translocation to the plasma membrane through 15(S)-hydroxyeicosatetraenoic acid synthesis. *J Biol Chem* 280:7917-7924, 2005.
266. Chen C, **Bazan NG**: Endogenous PGE₂ regulates membrane excitability and synaptic transmission in hippocampal CA1 pyramidal neurons. *J Neurophysiol* 93:929-941, 2005.
267. **Bazan NG**: Neuroprotectin D1 (NPD1): A DHA-derived mediator that protects brain and retina against cell injury-induced oxidative stress. *Brain Pathol* 15:159-166, 2005.
268. Di S, Malcher-Lopes R, Marcheselli VL, **Bazan NG**, Tasker JG: Rapid glucocorticoid-mediated endocannabinoid release and opposing regulation of glutamate and GABA inputs to hypothalamic magnocellular neurons. *Endocrinology* 146:4292-4301, 2005.
269. Cortina MS, Gordon WC, Lukiw WJ, **Bazan NG**: Oxidative stress-induced retinal damage up-regulates DNA polymerase gamma and 8-oxoguanine-DNA-glycosylase in photoreceptor synaptic mitochondria. *Exp. Eye Res.* 81:742-750, 2005.
270. Boedker M, Boetkjaer M, Bazan NG, Cui J-G, Zhao Y, Palacios Pelaez R, Lukiw WJ: Budesonide epimer R, LAU-8080 and phenyl butyl nitroline synergistically repress cyclooxygenases-2 induction in [IL-1 β + A β 42]-stressed human neural cells. *Neurosci. Lett.* 380:176-80, 2005.
271. Teather LA, Packard MG, Smith DE, Ellis-Behnke RG, **Bazan NG**: Differential induction of c-Jun and Fos-like proteins in rat hippocampus and dorsal striatum after training in two water maze tasks. *Neurobiol. Learn. Mem.* 84:75-84, 2005.
272. Lukiw WJ, Cui J-G, Musto AE, Musto BC, **Bazan NG**: Epileptogenesis in diacylglycerol kinase epsilon deficiency up-regulates COX-2 and tyrosine hydroxylase in hippocampus. *Biochem Biophys Res Commun* 338:77-81, 2005.
273. Di S, Boudaba C, Popescu IR, Weng FJ, Harris C, Marcheselli VL, **Bazan NG**, Tasker, JG: Activity-dependent release and actions of endocannabinoids in the rat hypothalamic supraoptic nucleus. *J Physiol* 5:569:751-760, 2005.
274. Esquenazi S, He J, Bazan HE, **Bazan NG**: Use of autologous serum in corneal epithelial defects

- post-lamellar surgery. *Cornea* 24:992-997, 2005.
275. Kolko M, Christoffersen NR, Varoqui H, **Bazan NG**: Expression and induction of secretory phospholipase A2 group IB in brain. *Cell Mol Neurobiol* 25:1107-1122, 2005.
276. Esquenazi S, He J, **Bazan NG**, Bazan HE: Comparison of corneal wound-healing response in photorefractive keratectomy and laser-assisted subepithelial keratectomy. *J Cataract Refract Surg.* 31:1632-1639, 2005.
277. Esquenazi S, Bazan HE, Bui V, He J, Kim DB, **Bazan NG**: Topical combination of NGF and **DHA** increases rabbit corneal nerve regeneration after photorefractive keratectomy. *Invest Ophthalmol Vis Sci* 46:3121-3127, 2005.
278. Sang N, Zhang J, Marcheselli V, **Bazan NG**, Chen C: Postsynaptically synthesized prostaglandin E2 (PGE2) modulates hippocampal synaptic transmission via a presynaptic PGE2 EP2 receptor. *J Neurosci* 25:9858-9870, 2005.
279. Lukiw WJ, Marcheselli VL, Cui JG, Bodker M, Botkjaer A, Gotlinger K, Serhan CN, **Bazan NG**: A role for **docosahexaenoic acid**-derived **neuroprotectin D1** in neural cell survival and Alzheimer disease. *J Clin Invest* 115:2774-2783, 2005.
280. Lukiw WJ, Mukherjee PK, Cui J-G, **Bazan NG**: A2E selectively induces COX-2 in ARPE-19 and human neural cells. *Curr Eye Res* 31:259-263, 2006.
281. Musto A, **Bazan NG**: Diacylglycerol kinase epsilon modulates rapid kindling epileptogenesis. *Epilepsia* 47:267-276, 2006.
282. Faghiri Z, **Bazan NG**: Selective relocalization and proteasomal downregulation of PKCalpha induced by platelet-activating factor in retinal pigment epithelium. *Invest Ophthalmol Vis Sci* 47:397-404, 2006.
283. Cole-Edwards KK, Musto A, **Bazan NG**: c-Jun N-terminal kinase activation responses induced by hippocampal kindling as mediated by reactive astrocytes. *J Neurosci* 26:8295-8304, 2006.
284. Kolko M, Christoffersen NR, Barreiro SG, Miller ML, Pizza AJ, **Bazan NG**: Characterization and location of secretory phospholipase A2 groups IIE, V, and X in the rat brain. *J Neurosci Res* 83:874-882, 2006.
285. He J, **Bazan NG**, Bazan HE: Alkali-induced corneal stromal melting prevention by a novel platelet-activating factor receptor antagonist. *Arch Ophthalmol* 124:70-78, 2006.
286. Chen C, Hardy M, Zhang J, LaHoste GJ, **Bazan NG**: Altered NMDA receptor trafficking contributes to sleep deprivation-induced hippocampal synaptic and cognitive impairments. *Biochem Biophys Res Commun* 10:340:435-440, 2006.
287. McDermott CM, Hardy MN, **Bazan NG**, Magee JC: Sleep deprivation-induced alterations in excitatory synaptic transmission in the CA1 region of the rat hippocampus. *J Physiol* 1:570:553-65, 2006.
288. Ruskin DN, Dunn KE, Billiot I, **Bazan NG**, LaHoste GJ: Eliminating the adrenal stress response does not affect sleep deprivation-induced acquisition deficits in the water maze. *Life Sci.* 78:2833-2838, 2006.
289. Machel-Lopes R, Di S, Marcheselli VL, Weng FJ, Stuart CT, **Bazan NG**, Tasker JG: Opposing crosstalk between leptin and glucocorticoids rapidly modulates synaptic excitation via endocannabinoid release. *J Neurosci* 26:6643-50, 2006.
290. Esquenazi S, He J, Kim DB, **Bazan NG**, Bui V, Bazan HE: Wound-healing response and refractive regression after conductive keratoplasty. *J Cataract Refract Surg* 32:480-6, 2006.
291. Cui J-G, Zhang X, Zhao Y-H, Chen C, **Bazan NG**: Allodynia and hyperalgesia suppression by a novel analgesic in experimental neuropathic pain. *Biochem and Biophys Res Commun* 350:358-363, 2006.
292. Vaccarino AL, Paul D, Mukherjee PK, Rodriguez de Turco EB, Marcheselli VL, Xu L, Trudell ML, Mingué JM, Matia MP, Sunkel C, Alvarez-Builla J, **Bazan NG**: Synthesis and in vivo evaluation of a non-hepatotoxic acetaminophen analogs. *Bioorg Med Chem* 15:2206-2215, 2007.

293. Kolko M, Wang J, Zhan C, Poulsen KA, Praise JU, Nissen MH, Heegaard S, **Bazan NG**: Identification of intracellular phospholipase A2 in the human eye: Involvement in phagocytosis of photoreceptor outer segments. *Invest Ophthalmol Vis Sci* 48(3):1401-9, 2007.
294. Kolko M, Praise JU, **Bazan NG**, Heegaard S: Human secretory phospholipase A(2) group IB in normal eyes and in eye disease. *Acta Ophthalmol Scand* 85(3):317-23, 2007.
295. Mukherjee PK, Marcheselli VL, de Rivero Vaccari JC, Gordon WC, Jackson F, **Bazan NG**: Photoreceptor outer segment phagocytosis selectively attenuates oxidative stress-induced apoptosis with concomitant neuroprotectin D1 synthesis. *Proc Natl Acad Sci* 104(32):13158-13163, 2007.
296. Mukherjee PK, Marcheselli VL, Barreiro S, Hu J, Bok D, **Bazan NG**: Neurotrophic enhance retinal pigment epithelial cell survival through neuroprotectin D1 signaling. *Proc Natl Acad Sci* 104(32):13152-13157, 2007.
297. Ryan SD, Harris CS, Mo F, Lee H, Hou ST, **Bazan NG**, Haddad PS, Arnason JT, Bennett SA: Platelet-activating factor-induced neuronal apoptosis is initiated independently of its G-protein coupled PAF receptor and is inhibited by the benzoate orsellinic acid. *J Neurochem* 103(1):88-97, 2007.
298. Esquenazi S, He J, Li N, **Bazan NG**, Esquenazi I, Bazan HE: Comparative *in vivo* high-resolution confocal microscopy of corneal epithelium, sub-basal nerves and stromal cells in mice with and without dry eye after photorefractive keratectomy. *Clin Experiment Ophthalmol* 35(6):545-9, 2007.
299. Kuroda H, Kutner RH, **Bazan NG**, Reiser J: A comparative analysis of constitutive and cell-specific promoter in the adult mouse hippocampus using lentivirus vector-mediated gene transfer. *J Gene Med* 10(11):1163-75, 2008.
300. Lukiw WJ, **Bazan NG**: Docosahexaenoic acid (DHA) and the aging brain. *J. Nutrition* 138(12):2510-4, 2008.
301. Belayev L, Khoutorova L, Atkins K, Cherqui A, Alvarez-Builla J, **Bazan NG**: LAU-901, a novel platelet-activating factor antagonist, confers enduring neuroprotection in experimental focal cerebral ischemia in the rat. *Brain Res* 1253:184-90, 2009.
302. Kuroda H, Kutner RH, **Bazan NG**, Reiser J: Simplified lentivirus vector production in protein-free media using polyethylenimine-mediated transfection. *J Virol Methods* 157:113-121, 2009.
303. Kolko M, Wang J, Kiilgaard JF, Poulsen KA, la Cour M, Nissen MH, Heegaard S, **Bazan NG**, Praise JU: Calcium-independent phospholipase A(2) regulates retinal pigment epithelium proliferation and may be important in the pathogenesis of retinal diseases. *Exp Eye Res* 89(3):383-91, 2009.
304. Calandria JM, Marcheselli VL, Mukherjee PK, Uddin J, Winkler JW, Petasis NA, **Bazan NG**: Selective survival rescue in 15-lipoxygenase-1-deficient retinal pigment epithelial cells by the novel docosahexaenoic acid-derived mediator, neuroprotectin D1. *J Biol Chem* 284:17877-17882, 2009.
305. Belayev L, Khoutorova L, Atkins KD, **Bazan NG**: Robust docosahexaenoic acid-mediated neuroprotection in a rat model of transient focal cerebral ischemia. *Stroke* 40(9):3121-6, 2009.
306. **Bazan NG**: Is NF-kappaB from astrocytes a decision maker of neuronal life or death? Commentary on Dvoriantchikova *et.al.*, *Eur J Neurosci* 30(2):173-4, 2009.
307. Marcheselli VL, Mukherjee PK, Arita M, Hong S, Antony R, Sheets K, Winkler JW, Petasis N, Serhan CN, **Bazan NG**: Neuroprotectin D1/protectin D1 stereoselective and specific binding with human retinal pigment epithelial cells and neutrophils. *Prostaglandins Leukot Essent Fatty Acids* 82:27-34, 2010.
308. Esquenazi S, He J, Li N, **Bazan NG**, Esquenazi I, Bazan HE: A novel platelet activating factor receptor antagonist reduces cell infiltration and expression of inflammatory mediators in mice exposed to desiccating conditions after PRK. *Clin Dev Immunol*. 2009:138513, 2009.
309. Cortina MS, He J, Li N, **Bazan NG**, Bazan HE: Neuroprotectin D1 synthesis and corneal nerve regeneration after experimental surgery and treatment with PEDF plus DHA. *Invest Ophthalmol Vis Sci* 51(2):804-810, 2010.

310. Lentz JJ, Gordon WC, Farris HE, Macdonald GH, Cunningham De, Robbins CA, Temple BL, **Bazan NG**, Rubel EW, Oesterle EC, Keats BJ: Deafness and retinal degeneration in a novel USH1C knock-in mouse model. *Dev Neurobiol* 70(4):253-67, 2010.
311. Sheets KG, Zhou Y, Ertel MK, Knott EJ, Regan CE Jr, Elison JR, Gordon WC, Gjorstrup P, **Bazan NG**: Neuroprotectin D1 attenuates laser-induced choroidal neovascularization in mouse. *Mol Vis* 16:320-9, 2010.
312. Faghiri Z, **Bazan NG**: P13K/Akt and mTOR/p70S6K pathways mediate neuroprotectin D1-induced retinal pigment epithelial cell survival during oxidative stress-induced apoptosis. *Exp Eye Res* 90:718-725, 2010.
313. Antony R, Lukiw WJ, **Bazan NG**: Neuroprotectin D1 induces dephosphorylation of BCL-X_L in a PP2A-dependent manner during oxidative stress and promotes retinal pigment epithelial cell survival. *J Biol Chem* 24:18301-18308, 2010.
314. He J, **Bazan NG**, Bazan HE. Mapping the entire human corneal nerve architecture. *Exp Eye Res* 91:513-23, 2010.
315. Cui J-G, **Bazan NG**: Agrin downregulation induced by nerve injury contributes to neuropathic pain. *J Neurosci* 30:15286-97, 2010.
316. Knott EJ, Sheets KG, Zhou Y, Gordon WC, **Bazan NG**: Spatial correlation of mouse photoreceptor-RPE thickness between SD-OCT and histology. *Exp Eye Res* 92:155-60, 2010.
317. Halapin NA, **Bazan NG**: NPD1 induction of retinal pigment epithelial cell survival involves PI2K/Akt phosphorylation signaling. *Neurochem Res* 35:1944-1974, 2010.
318. Zhao Y, Calon F, Julien C, Winkler JW, Petasis NA, Lukiw WJ, **Bazan NG**: Docosahexaenoic acid-derived neuroprotectin D1 induces neuronal survival via secretase- and PPAR γ -mediated mechanisms in Alzheimer's disease models. *PLoS One* 6:e15816, 2011.
319. Belayev L, Khoutorova L, Atkins KD, Eady TN, Hong S, Lu Y, Obenaus A, **Bazan NG**: Docosahexaenoic acid therapy of experimental ischemic stroke. *Transl Stroke Res* 2:33-41, 2011.
320. Kenchegowda S, **Bazan NG**, Bazan HE: EGF stimulates lipoxin A4 synthesis and modulates repair in corneal epithelial cells through ERK and p38 activation. *Invest Ophthalmol Vis Sci* 52:2240-9, 2011.
321. He J, Kakazu AH, **Bazan NG**, Bazan HE: Aspirin-triggered lipoxin A4 (15-epi-LXA4) increases the endothelial viability of human corneas stored in optisol. *J Ocul Pharmacol Ther* 27:235-41, 2011.
322. Musto AE, Gjorstrup P, Bazan NG: The omega-3 **fatty acid**-derived **neuroprotectin D1** limits hippocampal hyperexcitability and seizure susceptibility in kindling epileptogenesis. *Epilepsia* 52(9):1601-8, 2011.
323. Zhou Y, Sheets KG, Knott EJ, Regan CE Jr, Tuo J, Chan CC, Gordon WC, **Bazan NG**: Cellular and 3D optical coherence tomography assessment during the initiation and progression of retinal degeneration in the Ccl2/Cx3cr1-deficient mouse. *Exp. Eye Res.* 93(5):636-48, 2011.
324. Serhan CN, Fredman G, Yang R, Karamnov S, Belayev LS, **Bazan NG**, Zhu M, Winkler JW, Petasis NA: Novel proresolving aspirin-triggered DHA pathway. *Chem Biol* 18(8):976-87, 2011.
325. Stark DT, **Bazan NG**: Synaptic and extrasynaptic NMDA receptors differentially modulate neuronal COX-2 function, lipid peroxidation, and neuroprotection. *J Neurosci.* 31(39):13710-21, 2011.
326. Cortina MS, He J, Li N, **Bazan NG**: Bazan H.E. Recovery of corneal sensitivity, calcitonin gene-regulated peptide-positive nerves, and increased wound healing induced by pigment epithelial-derived factor plus docosahexaenoic acid after experimental surgery. *Arch. Ophthal.* 130(1):76-83, 2012.
327. Belayev L, Eady TN, Khoutorova L, Atkins K, Obenaus A, Cordoba M, Vaquero JJ, Alvarez-Builla J, **Bazan NG**: Superior neuroprotective efficacy of LAU-0901, a novel platelet-activating factor antagonist, in experimental stroke. *Transl Stroke Res* 3(1):154-163, 2012.

328. Calandria JM, Mukherjee PK, de Rivero Vaccari JC, Zhu M, Petasis NA, **Bazan NG**: Ataxin-1 poly-Q-induced proteotoxic stress and apoptosis are attenuated in neural cells by docosahexaenoic acid-derived neuroprotectin D1. *J Biol Chem*; 287(28):23726-39, 2012.
329. **Bazan NG**, Eady TN, Khoutorova L, Atkins KD, Hong S, Lu Y, Zhang C, Jun B, Obenaus A, Fredman G, Zhu M, Winkler JW, Petasis NA, Serhan CN, Belayev L: Novel aspirin-triggered neuroprotectin D1 attenuates cerebral ischemic injury after experimental stroke. *Exp Neurol* 236:122-130, 2012.
330. Petasis NA, Yang R, Winkler JW, Zhu M, Uddin J, **Bazan NG**, Serhan CN: Stereocontrolled total synthesis of neuroprotectin D1/protectin D1 and its aspirin-triggered stereoisomer. *Tetrahedron Letters* 53:1695-1698, 2012.
331. Calandria J, Mukherjee PK, de Rivero Vaccari JC, Zhu M, Petasis NA, **Bazan NG**: Ataxin-1 poly-Q-induced proteotoxic stress and apoptosis are attenuated in neural cells by docosahexaenoic acid-derived neuroprotectin D1. *J Biol Chem* 2012;287(28):23726-39.
332. Eady TN, Khoutorova L, Atkins KD, **Bazan NG**, Belayev L: Docosahexaenoic acid complexed to human albumin in experimental stroke: neuroprotective efficacy with a wide therapeutic window. *Exp Transl Stroke Med*. 2012;4(1):19.
333. Eady TN, Belayev L, Khoutorova L, Atkins KD, Zhang C, **Bazan NG**: Docosahexaenoic acid signaling modulates cell survival in experimental ischemic stroke penumbra and initiates long-term repair in young and aged rats. *PLoS One*. 2012;7(10):e46151.
334. Williams JJ, Mayurasakorn K, Vannucci SJ, Mastropietro C, **Bazan NG**, Ten VS, Deckelbaum RJ: n-3 Fatty Acid Rich Triglyceride Emulsions Are Neuroprotective After Cerebral Hypoxic-Ischemic Injury in Neonatal Mice. *PLoS One*. 2013;8(2):e56233.
335. Lentz JJ, Jodelka FM, Hinrich AJ, McCaffrey KE, Farris HE, Spalitta MJ, **Bazan NG**, Duelli DM, Rigo F, Hastings ML: Rescue of hearing and vestibular function by antisense oligonucleotides in a mouse model of human deafness. *Nat Med*. 2013;19(3):345-50.
336. **Bazan NG**: The docosanoid neuroprotectin D1 induces homeostatic regulation of neuroinflammation and cell survival. *Prostaglandins Leukot Essent Fatty Acids*. 2013;88(1):127-9.
337. Ozaltin F, Li B, Rauhauser A, An SW, Soylemezoglu O, Gonul II, Taskiran EZ, Ibsirlioglu T, Korkmaz E, Bilginer Y, Duzova A, Ozen S, Topaloglu R, Besbas N, Ashraf S, Du Y, Liang C, Chen P, Lu D, Vadnagara K, Arbuckle S, Lewis D, Wakeland B, Quigg RJ, Ransom RF, Wakeland EK, Topham MK, **Bazan NG**, Mohan C, Hildebrandt F, Bakkaloglu A, Huang CL, Attanasio M: DGKE variants cause a glomerular microangiopathy that mimics membranoproliferative GN. *J Am Soc Nephrol*. 2013;24(3):377-84.558.
338. Li S, Lee J, Zhou Y, Gordon WC, Hill JM, **Bazan NG**, Miner JH, Jin M: Fatty acid transport protein 4 (FATP4) prevents light-induced degeneration of cone and rod photoreceptors by inhibiting RPE65 isomerase. *J Neurosci*. 2013;33(7):3178-89.
339. Williams JJ, Mayurasakorn K, Vannucci SJ, Mastropietro C, **Bazan NG**, Ten VS, Deckelbaum RJ: N-3 fatty acid rich triglyceride emulsions are neuroprotective after cerebral hypoxic-ischemic injury in neonatal mice. *PLoS One*. 2013;8(2):e56233.
340. Li S, Yang Z, Hu J, Gordon WC, **Bazan NG**, Haas AL, Bok D, Jin M: Secretory defect and cytotoxicity: the potential disease mechanisms for the retinitis pigmentosa (RP)-associated interphotoreceptor retinoid-binding protein (IRBP). *J Biol Chem*. 2013;288(16):11395-406.
341. Zhao K, Wen R, Wang X, Pei L, Yang Y, Shang Y, **Bazan N**, Zhu LQ, Tian Q, Lu Y: EPAC inhibition of SUR1 receptor increases glutamate release and seizure vulnerability. *J Neurosci*. 2013;33(20):8861-5.
342. Cortina MS, He J, Russ T, **Bazan NG**, Bazan HE: Neuroprotectin D1 restores corneal nerve integrity and function after damage from experimental surgery. *Invest Ophthalmol Vis Sci*. 2013;54(6):4109-16.
343. Sheets KG, Jun B, Zhou Y, Zhu M, Petasis NA, Gordon WC, **Bazan NG**: Microglial ramification

- and redistribution concomitant with the attenuation of choroidal neovascularization by neuroprotectin D1. *Mol Vis.* 2013;19:1747-59.
344. Gordon WC, **Bazan NG**. Mediator lipidomics in ophthalmology: targets for modulation in inflammation, neuroprotection and nerve regeneration. *Curr Eye Res.* 2013;38(10):995-1005.
345. Rossi JL, Todd T, **Bazan NG**, Belayev L. Inhibition of Myosin Light-Chain Kinase Attenuates Cerebral Edema after Traumatic Brain Injury in Postnatal Mice. *J Neurotrauma.* 2013;30(19):1672-9.
346. Eady TN, Khoutorova L, Obenaus A, Mohd-Yusof A, **Bazan NG**, Belayev L. Docosahexaenoic acid complexed to albumin provides neuroprotection after experimental stroke in aged rats. *Neurobiol Dis.* 2013;62C:1-7.
347. Erickson JD, **Bazan NG**. The nucleolus fine-tunes the orchestration of an early neuroprotection response in neurodegeneration. *Cell Death Differ.* 2013;20(11):1435-7.
348. **Bazan NG**, Calandria JM, Gordon WC. Docosahexaenoic acid and its derivative neuroprotectin D1 display neuroprotective properties in the retina, brain and central nervous system. *Nestle Nutr Inst Workshop Ser.* 2013;77:121-31.
349. Sato K, Li S, Gordon WC, He J, Liou GI, Hill JM, Travis GH, **Bazan NG**, Jin M. Receptor interacting protein kinase-mediated necrosis contributes to cone and rod photoreceptor degeneration in the retina lacking interphotoreceptor retinoid-binding protein. *J Neurosci.* 2013;33(44):17458-68.
350. Eady TN, Khoutorova L, Anzola DV, Hong SH, Obenaus A, Mohd-Yusof A, **Bazan NG**, Belayev L. Acute treatment with docosahexaenoic acid complexed to albumin reduces injury after a permanent focal cerebral ischemia in rats. *PLoS One.* 2013;8(10):e77237.
351. Zemski Berry KA, Gordon WC, Murphy RC, **Bazan NG**. Spatial organization of lipids in the human retina and optic nerve by MALDI imaging mass spectrometry. *J Lipid Res.* 2014;55(3):504-15.
352. Hong SH, Belayev L, Khoutorova L, Obenaus A, **Bazan NG**. Docosahexaenoic acid confers enduring neuroprotection in experimental stroke. *J Neurol Sci.* 2014;338(1-2):135-41.
353. Hong S, Tian H, Lu Y, Laborde JM, Muhale FA, Wang Q, Alapure BV, Serhan CN, **Bazan NG**. Neuroprotectin/protectin D1: endogenous biosynthesis and actions on diabetic macrophages in promoting wound healing and innervation impaired by diabetes. *Am J Physiol Cell Physiol.* 2014;307(11):C1058-67.
354. Kanan Y, Gordon WC, Mukherjee PK, **Bazan NG**, Al-Ubaidi MR. Neuroprotectin D1 is synthesized in the cone photoreceptor cell line 661W and elicits protection against light-induced stress. *Cell Mol Neurobiol.* 2015;35(2):197-204.
355. Galluzzi L, Bravo-San Pedro JM, Vitale I, Aaronson SA, Abrams JM, Adam D, Alnemri ES, Altucci L, Andrews D, Annicchiarico-Petruzzelli M, Baehrecke EH, **Bazan NG**, et al. Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. *Cell Death Differ.* 2015;22(1):58-73.
356. Musto AE, Walker CP, Petasis NA, **Bazan NG**. Hippocampal neuro-networks and dendritic spine perturbations in epileptogenesis are attenuated by neuroprotectin d1. *PLoS One.* 2015;10(1):e0116543.
357. Calandria JM, Asatryan A, Balaszczuk V, Knott EJ, Jun BK, Mukherjee PK, Belayev L, **Bazan NG**. NPD1-mediated stereoselective regulation of BIRC3 expression through cREL is decisive for neural cell survival. *Cell Death Differ.* 2015;22(8):1363-77.
358. Hong SH, Khoutorova L, **Bazan NG**, Belayev L. Docosahexaenoic acid improves behavior and attenuates blood-brain barrier injury induced by focal cerebral ischemia in rats. *Exp Transl Stroke Med.* 2015;7(1):3.
359. Rossi JL, Todd T, Daniels Z, **Bazan NG**, Belayev L. Interferon-Stimulated Gene 15 Upregulation Precedes the Development of Blood-Brain Barrier Disruption and Cerebral Edema after Traumatic

- Brain Injury in Young Mice. *J Neurotrauma*. 2015;32(14):1101-8.
360. Rice DS, Calandria JM, Gordon WC, Jun B, Zhou Y, Gelfman CM, Li S, Jin M, Knott EJ, Chang B, Abuin A, Issa T, Potter D, Platt KA, **Bazan NG**. Adiponectin receptor 1 conserves docosahexaenoic acid and promotes photoreceptor cell survival. *Nat Commun*. 2015;6:6228.
361. Heneka MT, Carson MJ, El Khoury J, Landreth GE, Brosseron F, Feinstein DL, Jacobs AH, Wyss-Coray T, Vitorica J, Ransohoff RM, Herrup K, Frautschy SA, Finsen B, Brown GC, Verkhratsky A, Yamanaka K, Koistinaho J, Latz E, Halle A, Petzold GC, Town T, Morgan D, Shinohara ML, Perry VH, Holmes C, **Bazan NG**, et al. Neuroinflammation in Alzheimer's disease. *Lancet Neurol*. 2015;14(4):388-405.
362. Calandria JM, Sharp MW, **Bazan NG**. The Docosanoid Neuroprotectin D1 Induces TH-Positive Neuronal Survival in a Cellular Model of Parkinson's Disease. *Cell Mol Neurobiol*. 2015;35(8):1127-36.
363. Zhu J, Chaki M, Lu D, Ren C, Wang SS, Rauhauser A, Li B, Zimmerman S, Jun B, Du Y, Vadnagara K, Wang H, Elhadi S, Quigg RJ, Topham MK, Mohan C, Ozaltin F, Zhou XJ, Marciano DK, **Bazan NG**, Attanasio M. Loss of diacylglycerol kinase epsilon in mice causes endothelial distress and impairs glomerular Cox-2 and PGE2 production. *Am J Physiol Renal Physiol*. 2016;310(9):F895-908.
364. Musto AE, Rosencrans RF, Walker CP, Bhattacharjee S, Raulji CM, Belayev L, Fang Z, Gordon WC, **Bazan NG**. Dysfunctional epileptic neuronal circuits and dysmorphic dendritic spines are mitigated by platelet-activating factor receptor antagonism. *Sci Rep*. 2016;6:30298.
365. Belayev L, Mukherjee PK, Balaszczuk V, Calandria JM, Obenaus A, Khoutorova L, Hong SH, **Bazan NG**. Neuroprotectin D1 upregulates Iduna expression and provides protection in cellular uncompensated oxidative stress and in experimental ischemic stroke. *Cell Death Differ*. 2017;24:1091-1099.
366. **Bazan NG**, Carman GM. Thematic Minireview Series: Inflammatory transcription confronts homeostatic disruptions. *J Biol Chem*. 2017;292:12373-12374.
367. Asatryan A, **Bazan NG**. Molecular mechanisms of signaling via the docosanoid neuroprotectin D1 for cellular homeostasis and neuroprotection. *J Biol Chem*. 2017;292:12390-12397.
368. Jun B, Mukherjee PK, Asatryan A, Kautzmann MA, Heap J, Gordon WC, Bhattacharjee S, Yang R, Petasis NA, **Bazan NG**. Elovanoids are novel cell-specific lipid mediators necessary for neuroprotective signaling for photoreceptor cell integrity. *Sci Rep*. 2017;7:5279.
369. Bhattacharjee S, Jun B, Belayev L, Kautzmann MA, Heap J, Obenaus A, Menghani H, Marcell SJ, Khoutorova L, Yang R, Petasis NA, **Bazan NG**. Elovanoids are a novel class of homeostatic lipid mediators that protect neural cell integrity upon injury. *Sci Adv*. 2017 (in press)

Book Chapters, Reviews and Editorials:

1. **Bazan NG**: Biología del tejido adiposo pardo. *Rev Argent Endocrinol Metab* 11:27-42, 1965.
2. **Bazan NG**: El mecanismo de acción de las hormonas. *Ciencia e Investigación* 24:454-462, 1968.
3. **Bazan NG**: Estructura y función de las membranas celulares. *Ciencia e Investigación* 26:146-166, 1970.
4. **Bazan NG**: Ácidos grasos libres y fosfolípidos del sistema nervioso central. *Doctoral Thesis*, Facultad de Medicina de la Universidad Nacional de Tucumán, 96 pages, 1970.
5. **Bazan NG**: Bioquímica de las membranas celulares. *Rev Fac de Medicina*, 10:83-123, 1971.
6. **Bazan NG**: Free arachidonic acid and other lipids in the nervous system during early ischemia and after electroshock. In: *Functional and Metabolism of Phospholipids in the Central and Peripheral Nervous System*, Vol 72, G Porcelati, L Amaducci, C Galli (eds), Plenum Press, NY, pp 317-335, 1976.
7. **Bazan NG**, Ilincheta de Boschero MG, Giusto NM, Bazan HEP: De novo glycerolipid biosynthesis in the toad and cattle retina. Redirecting of the pathway by propranolol and phentolamine. In:

- Functional and Metabolism of Phospholipids in the Central and Peripheral Nervous System, Vol 72, G Porcelati, L Amaducci, C Galli (eds), Plenum Press, NY, pp 139-148, 1976.
8. Giusto NM, **Bazan NG**: Effects of divalent cations, K+, and X 537A on glycerolipid metabolism in the cattle retina. In: Function Biosynthesis of Lipids, Vol 83, NG Bazan, RR Brenner, NM Giusto (eds), Plenum Press, NY, pp 481-488, 1977.
 9. Bazan HEP, **Bazan NG**: Effects of temperature, ionic environment, and light flashes on the glycerolipid neosynthesis in the toad retina. In: Function Biosynthesis of Lipid, Vol 83, NG Bazan, RR, Brenner, NM Giusto (eds), Plenum Press, NY, pp 489-495, 1977.
 10. Rodriguez de Turco EB, Cascone GD, Pediconi MF, **Bazan NG**: Phosphatidate, phosphatidylino-sitol, diacylglycerols, and free fatty acids in the brain following electroshock, anoxia, or ischemia. Adv Exp Med and Biol 83:389-396, 1977.
 11. Aveldano de Caldironi MI, **Bazan NG**: Acyl groups, molecular species and labeling by ¹⁴C glycerol and ³H-arachidonic acid of vertebrate retina glycerolipids. In: Function and Biosynthesis of Lipids, Vol 83, NG Bazan, RR Brenner, NM Giusto, (eds), Plenum Press, NY, pp 397-404, 1977.
 12. **Bazan NG**, Ilincheta de Boschero MG, Giusto NM: Neobiosynthesis of phosphatidyl-inositol and of other glycerolipids in the entire cattle retina. In: Function and Biosynthesis of Lipids, Vol 83, NG Bazan, RR Brenner, NM Giusto (eds), Plenum Press, NY, pp 377-388, 1977.
 13. Pechen de D'Angelo AM, Bonini de Romanelli IC, Alonso TS, **Bazan NG**: Composition and metabolism of phospholipids during early stages of vertebrate embryonic development. In: Function and Biosynthesis of Lipids, Vol 83, NG Bazan, RR Brenner, NM Giusto, (eds), Plenum Press, NY, pp 249-256, 1977.
 14. **Bazan NG**, Brenner RR, Giusto NM, Editors: Function and Biosynthesis of Lipids. In: Advances in Experimental Medicine and Biology, Vol 83, Plenum Publishing Corporation, NY, 646 pages, 53 Chapters, 1977.
 15. **Bazan NG**: Metabolism of Phosphatidylinositol in the Retina. In: Cyclitols and Phosphoinositides. W Wells and F Eisemberg (eds), Academic Press, NY, pp 563-568, 1978.
 16. Giusto NM, Ilincheta de Boschero M, Bazan HEP, Bazan NG: Hint on the regulation of phospholipid biosynthesis in the retina from studies on drug action. Revista de Microscopia Electronica y Biología Celular, 6:225-238, 1979.
 17. Pechen de D'Angelo AM, Alonso TS, Bonini de Romanelli IC, **Bazan NG**: Membrane lipids during early embryonic development. Revista de Microscopia Electronica y Biología Celular 6:327-334, 1979.
 18. **Bazan NG**, Giusto NM: Docosahexaenoyl chains are introduced in phosphatidic acid during de novo synthesis in retinal microsomes. In: Control of Membrane Fluidity. M Kates and A Kuksis (eds), Humana Press, New Jersey, pp 223-236, 1980.
 19. **Bazan NG**, Aveldano de Caldironi MI, Cascone de Suarez GD, Rodriguez de Turco EB: Transient modifications in brain free arachidonic acid in experimental animals during convulsions. In: Neurochemical and Clinical Neurology, L Batistin, G Hashim and A Lajtha (eds), Alan R. Liss, NY, pp 167-179, 1980.
 20. **Bazan NG** and Lolley RN, Editors: Neurochemistry of the Retina. Pergamon Press, Oxford, 572 pages, 40 chapters, 1980.
 21. **Bazan NG**, Rodriguez de Turco EB: Membrane lipids in the pathogenesis of brain edema: Phospholipids and arachidonic acid, the earliest membrane components changed at the onset of ischemia. In: Advances in Neurology, Vol 28: Brain Edema. J Cervós-Navarro, R Ferszt (eds), Raven Press, NY, pp 197-205, 1980.
 22. Aveldano de Caldironi MI, Giusto NM, **Bazan NG**: Polyunsaturated fatty acids of the retina. Progress in Lipid Research 20:49 57, 1981.
 23. **Bazan NG**, Aveldano de Caldironi MI, Giusto NM, Rodriguez de Turco EB: Phosphatidic acid in the central nervous system. Progress in Lipid Research 20:307-314, 1981.

24. **Bazan NG**, Paoletti R, Iacono J, Editors: New Trends in Nutrition, Lipid Research and Cardiovascular Diseases. Current Topics in Nutrition and Disease. Alan R. Liss, New York, 314 pages, 25 chapters, 1981.
25. Bazan HEP, Marcheselli VL, Careaga MM, **Bazan NG**: Biosynthesis and metabolism of essential and acidic phospholipids in the central nervous system. In: New Trends in Nutrition, Lipid Research and Cardiovascular Diseases. N Bazan, R Paoletti, J Iacono (eds), Alan R. Liss, NY, pp 101-112, 1981.
26. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Metabolism of arachidonic acid in the neural tissue. In: New Trends in Nutrition, Lipid Research and Cardiovascular Diseases. N Bazan, R Paoletti, J Iacono (eds), Alan R. Liss, NY, pp 17-23, 1981.
27. Bazan HEP, **Bazan NG**: Lipid synthesis in retinas. In: Methods in Enzymology, Biomembranes, Part II: Visual Pigments and Purple Membranes, Vol 81. IL Packer, (ed), Academic Press, NY, pp 788 -794, 1982.
28. **Bazan NG**: Biosynthesis of phosphatidic acid and polyenoic phospholipids in the central nervous system. In: Phospholipids in the Nervous System Vol 1, Metabolism. LA Horrocks, GB Ansell and G Porcellati (eds), Raven Press, NY, pp. 49-62, 1982.
29. **Bazan NG**: Metabolism of phospholipids in the retina. Vision Res 22:1539-1548, 1982.
30. Alonso TS, Bonini ICR, Pechen DAM, **Bazan NG**: Dynamics of cellular membranes during amphibian fertilization and early development. In: Recent Advances in Fertility Research Part 8: Developments in the Management of Reproductive Disorders. T Muldoon, V Mahesh, B Perez Ballester (eds), Alan R. Liss, NY, pp 55-62, 1982.
31. **Bazan NG**, Rodriguez de Turco EB, Morelli de Liberti SA: Free arachidonic acid and membrane lipids in the central nervous system during bicuculline induced status epilepticus. In: Advances in Neurology Vol 34: Status Epilepticus. AV Delgado-Escueta, CG Wasterlain, DM Treiman, RJ Porter (eds), Raven Press, NY, pp 305-310, 1983.
32. **Bazan NG**: Metabolism of phosphatidic acid. In: Handbook of Neurochemistry, Vol 3, F Lajtha, (ed), Plenum Publishing, NY, pp 17-39, 1983.
33. **Bazan NG**, Rodriguez de Turco EB: Seizures promote breakdown of membrane phospholipids in the brain. In: Neural Transmission, Learning and Memory. R Caputto and C Ajmone Marsan (eds), Raven Press, NY, pp 187-194, 1983.
34. **Bazan NG**: Biosintesis de gliceridos, fosfogliceridos, esteroles y terpenos. In: Chapter 35 in Quimica Biologica (Biological Chemistry). El Ateneo, Buenos Aires, 1983. Sun GY, Bazan NG, Wu JY, Porcellati G, and Sun A, Editors: Neural Membranes, Humana Press, NJ, 584 pages, 38 chapters, 1983.
35. **Bazan NG**, Morelli de Liberti SG, Rodriguez de Turco EB, Pediconi MF: Free arachidonic and docosahexaenoic acid accumulation in the central nervous system during stimulation. In: Neural Membranes. CY Sun, NG Bazan, J Wu, G Porcellati and AY Sun (eds), Humana Press, NJ, pp 123-140, 1983.
36. **Bazan NG**, Politi E, Rodriguez de Turco EB: Endogenous pools of arachidonic acid enriched membrane lipids in cryogenic brain edema. In: Recent Progress in the Study of Brain Edema. KG Go, A Baethmann (eds), Plenum Press, NY, pp 203-212, 1984.
37. **Bazan NG**, Reddy TS: Retina. In: Handbook of Neurochemistry, Vol 8. A Lajtha (ed), Plenum Press, NY, pp 507-575, 1985.
38. **Bazan NG**, Roccamo RM, Giusto NM, Ilincheta de Boschero MG: Propranolol-induced membrane perturbation and the metabolism of phosphoinositides and arachidonoyl diacylglycerols the retina. In: Inositol and Phosphoinositides: Metabolism and Regulation. JE Bleasdale, J Eichberg, G Hauser (eds), Humana Press, NJ, pp 67-82, 1985.
39. Birkle DL, **Bazan NG**: Metabolism of arachidonic acid in the central nervous system. The enzymatic cyclooxygenation and lipoxygenation of arachidonic acid in the mammalian retina. In:

- Phospholipids in the Nervous System, Vol 2, Physiological Roles. L Horrocks, J Kanfer, G Porcellatti (eds), Raven Press, NY, pp 193-205, 1985.
40. Bazan HEP, **Bazan NG**: Metabolism of docosahexaenoyl groups in phosphatidic acid and in other phospholipids of the retina. In: Phospholipids in the Nervous System, Vol 2, Physiological Roles. L Horrocks, J Kanfer, G Porcellatti (eds) Raven Press, NY, pp 209-217, 1985.
41. **Bazan NG**, Birkle DL, Reddy TS: Biochemical and nutritional aspects of the metabolism of polyunsaturated **fatty acids** and phospholipids in experimental models of retinal degeneration. In: Retinal Degeneration: Experimental and Clinical Studies. MM LaVail, G Anderson, J Hollyfield (eds), Alan R. Liss, Inc., NY, pp 159-187, 1985.
42. **Bazan NG**, Birkle DL: Depolarization or convulsions increase the formation of HETE and PG in the central nervous system. In: Advances in Prostaglandin, Thromboxane and Leukotriene Research, Vol 13, O Hayaishi, S Yamamoto (eds), Raven Press, NY, pp 569-571, 1985.
43. **Bazan NG**, Birkle DL, Tang W, Reddy TS: The accumulation of free arachidonic acid and the formation of prostaglandins and lipoxygenase reaction products in the brain during experimental epilepsy. In: Basic Mechanisms of the Epilepsies. Molecular Cellular Approaches. Advances in Neurology, Vol 47. AV Delgado-Escueta, AA Ward, DM Woodbury (eds), Raven Press, NY, pp 879-902, 1986.
44. Birkle DL, **Bazan NG**: The arachidonic acid cascade and phospholipid and **docosahexaenoic acid** metabolism in the retina. In: Progress in Retinal Research, Vol 5. N Osborne and J Chader (eds), Pergamon Press, London pp 309-335, 1986.
45. **Bazan NG**, Birkle DL, Reddy TS, Vadnal RE: Diacylglycerols and arachidonic acid in the molecular pathogenesis of brain injury. In: Phospholipid Research and the Nervous System. Biochemical and Molecular Pharmacology, FIDIA Res Series Vol 4. L Horrocks, L Freysz, G Toffano (eds), Liviana Press, Padova, pp 169-180, 1986.
46. Bazan HEP, Ridenour B, Birkle DL, **Bazan NG**: Unique metabolic features of docosahexaenoate metabolism related to functional roles in brain and retina. In: Phospholipid Research and the Nervous System. Biochemical and Molecular Pharmacology, FIDIA Res Series Vol 4. L Horrocks, L Freysz, G Toffano (eds), Liviana Press, Padova, pp 67-78, 1986.
47. **Bazan NG**, Birkle DL: Polyunsaturated **fatty acids** in inositol phospholipids at the synapse in neuronal responsiveness. In: Molecular Mechanisms of Neuronal Responsiveness. Y Ehrlich, RH Lennox, E Kornecki, OW Berry (eds), Plenum Press, New York, pp 45-68, 1987.
48. **Bazan NG**, Scott BL: **Docosahexaenoic acid** metabolism and inherited retinal degeneration. In: Degenerative Retinal Disorders: Clinical and Laboratory Investigations. JG Hollyfield, RE Anderson, MM Lavail (eds), Alan R. Liss, NY, pp 103-118, 1987.
49. Scott BL, **Bazan NG**: Polyunsaturated **fatty acids** in retinal development. Proceedings of the American Oil Chemists' Society, pp. 534-539, 1987.
50. **Bazan NG**, U'Prichard D: Molecular Neurobiology, 1:1-2, 1987.
51. **Bazan NG**: Phospholipid in nervous tissues. *J Neurosci Res* 17:96, 1987. (Book review).
52. Marcheselli VL, Scott BL, Reddy TS and **Bazan NG**: Quantitative analysis of acyl group composition of brain phospholipids, neutral lipids, and free **fatty acids**. In: Lipids and Related Compounds, Neuromethods Vol 7, AA Boulton, GB Baker, LA Horrocks (eds), Humana Press, NJ, pp 83-110, 1988.
53. Birkle DL, Bazan HEP, **Bazan NG**: Use of radiotracer techniques and HPLC with flow scintillation detection in the analysis of free **fatty acids** and eicosanoids. In: Progress in HPLC, Vol 3, Parvez et al (eds), VNU International Science Press, pp 11-26, 1988.
54. Birkle DL, Bazan HEP, **Bazan NG**: Analysis of prostaglandins, leukotrienes and related compounds in retina and brain. In: Lipids and Related Compounds, Neuromethods Vol 7, AA Boulton, GB Baker, LA Horrocks, (eds), Humana Press, NJ, pp 227-244, 1988.
55. Clostre F, Millerin M, Betin C, **Bazan NG**, Braquet P: Effects of two platelet-activating factor

- antagonists, BN 52063 and alprazolam on force swimming-induced behavioural despair of mice. In: Ginkgolides - Chemistry, Biology, Pharmacology and Clinical Perspectives, Vol. I, P Braquet (ed), J.R. Prous Science, Barcelona, Spain, pp 649-664, 1988.
56. Gebhardt BM, Braquet PG, Bazan HEP, **Bazan NG**: Ginkgolide BN 52021 blocks platelet-activating factor mediated suppression of cellular immunity. In: Ginkgolides - Chemistry, Biology, Pharmacology and Clinical Perspectives, Vol. I, P Braquet (ed), J.R. Prous Science, Barcelona, Spain, pp 719-729, 1988.
57. Bazan HEP, **Bazan NG**: Effect of BN 52021 on the arachidonic acid cascade in the inflamed cornea. In: Ginkgolides - Chemistry, Biology, Pharmacology and Clinical Perspectives, Vol I, P Braquet (ed), J.R. Prous Science, Barcelona, Spain, pp 769-773, 1988.
58. **Bazan NG**, Panetta T, Marcheselli VL, Braquet P, Spinnewyn B: A platelet-activating factor antagonist inhibits the cerebral blood flow and neurochemical changes caused by cerebral injury-reperfusion. In: Ginkgolides - Chemistry, Biology, Pharmacology and Clinical Perspectives, Vol. I, P Braquet (ed), J.R. Prous Science, Barcelona, Spain, pp 681-685, 1988.
59. **Bazan NG**, Horrocks LA, Toffano G, Editors: Phospholipid Research and the Nervous System. Biochemical and Molecular Pathology, Liviana Press, Springer Verlag, Padova, Italy, 293 pages, 31 chapters, 1989.
60. **Bazan NG**: The metabolism of omega-3 polyunsaturated **fatty acid** in the eye: The possible role of **docosahexaenoic acid** and docosanoids in retinal physiology and ocular pathology. In: The Ocular Effects of Prostaglandins and Other Eicosanoids, L. Bito (Ed.), Alan R. Liss, NY, pps. 95-112, 1989.
61. **Bazan NG**: Metabolism of arachidonic acid in the retina and retinal pigment epithelium: Biological effects of oxygenated metabolites of arachidonic acid. In: The Ocular Effects of Prostaglandins and Other Eicosanoids, L. Bito, (Ed.), Alan R. Liss, NY, pps. 15-37, 1989.
62. **Bazan NG**: Lipid-derived metabolites as possible retina messengers: Arachidonic acid, leukotrienes, docosanoids, and platelet-activating factor. In: Extracellular and Intracellular Messengers in the Vertebrate Retina Neurobiology, Vol. 49, Redburn D and Pasantes Morales H, (Eds.), Alan R. Liss, NY, pp. 269-300, 1989.
63. **Bazan NG**, Gordon WC: The role of essential polyunsaturated **fatty acids** in retinal photoreceptor cell function and in degenerative diseases. In: Les Séminaires Ophthalmologiques d'IPSEN, Tome 1: Biologie fondamentale et clinique de la rétine, Aspects récents en biologie et pharmacologie oculaire, Y Christen, M Doly, M-T Droy Lefaix, (Sous la direction de), Springer-Verlag, Paris, France, pp 97-115, 1989.
64. Braquet P, Spinnewyn B, Demerle C, **Bazan NG**, Hosford D: The role of PAF and PAF antagonists in cerebral impairments. In: Pharmacology of Cerebral Ischemia 1988, Kriegstein J (Ed.), CRC Press, Inc., Boca Raton, FL, pp 273-279, 1989.
65. Fitzpatrick JH, Hogan K, Gilboe DD, Kintner DB, Potter KT, Carmi JK, **Bazan NG**, Braquet P: Effects of NMDA receptor antagonist MK-801 and the platelet-activating factor antagonist BN 52021 on cerebral metabolism and auditory evoked potentials following 14 minutes of ischemia and 60 minutes of reoxygenation. In: Pharmacology of Cerebral Ischemia 1988, Kriegstein J (Ed.), CRC Press, Inc., Boca Raton, FL, pp 235-238, 1989.
66. **Bazan NG**, de Abreu MT: Cellular responses and chemical mediators in ocular inflammation. In: World Uveitis Symposium, Proceedings First World Uveitis Symposium, R Belfort Jr, AMN Petrilli and R Nussenblatt (eds), Livraria Roca Ltda, São Paulo, Brazil, pp 47-68, 1989.
67. **Bazan NG**: Ginkgolide B (BN 52021) decreases brain phospholipase A₂ activated by ischemia or electroconvulsive shock. In: Ginkgolide - Chemistry, Biology, Pharmacology and Clinical Perspectives, Vol. II, P Braquet (ed), J.R. Prous Science pp 629-637, 1989.
68. Gilboe DD, Fitzpatrick JH Jr, Kintner D, Emoto SE, **Bazan NG**, Braquet P: Biochemical changes in normoxic and post-ischemic brain tissue following treatment with BN 52021. In: Ginkgolide -

- Chemistry, Biology, Pharmacology and Clinical Perspectives, Vol. II, P Braquet (ed), J.R. Prous Science, pp 639-648, 1989.
- 69.de Abreu MT, **Bazan NG**, Bazan HEP, Guidugli T, Belfort Jr. R: Estudo dos leucotrienos no humor aquoso e soro de pacientes portadores de uveítis e controles. Análise de 93 casos. *Arquivos Brasileiros de Oftalmologia* 52(4):97-101, 1989.
- 70.Braquet P, Hosford D, Spinnewyn B, Dunerger D, **Bazan NG**, Pirotzky E: The therapeutic potential of ginkgolides and other PAF antagonist in cerebral ischemia. In: Platelet-Activating Factor and Diseases, K Saito, DJ Hanahan (eds), International Medical Publishers, Tokyo, Japan, pp 85-102, 1989.
- 71.Barkai AI, **Bazan NG**, Editors: Arachidonic acid metabolism in the nervous system: Physiological and pathological significance. In: Annual of the New York Academy of Sciences, Vol 559, The New York Academy of Sciences, New York, NY, 504 pages, 52 chapters, 1989.
- 72.Panetta T, Marcheselli VL, Braquet P, **Bazan NG**: Arachidonic acid metabolism and cerebral blood flow in normal, ischemic and reperfused gerbil brain. Inhibition of ischemia reperfusion induced cerebral injury by a platelet-activating factor antagonist (BN 52021). *Ann New York Acad of Sci* 559:340-351, 1989.
- 73.Marcheselli VL, Panetta T, Braquet P, Thibodeaux T, **Bazan NG**: Effects of platelet-activating factor antagonist (BN 52021) on cerebral lipid metabolism following ischemia reperfusion in the gerbil. *Ann New York Acad of Sci* 559:468-470, 1989.
- 74.**Bazan NG**: Arachidonic acid (AA) in the modulation of excitable membrane function and at the onset of brain damage. *Ann New York Acad of Sci* 559:1-16, 1989.
- 75.Braquet P, Spinnewyn B, Demerle C, Hosford D, Marcheselli V, Rossowska M, **Bazan NG**: The role of platelet activating factor in cerebral ischemia and related disorders. *Ann New York Acad of Sci* 559:296-312, 1989.
- 76.**Bazan NG**: The identification of a new biochemical alteration early in the differentiation of visual cells in inherited retinal degeneration. In: Inherited and Environmentally Induced Retinal Degenerations, Alan R. Liss, NY, pps 191-215, 1989.
- 77.**Bazan NG**: The supply of omega 3 polyunsaturated fatty acids to photoreceptors and synapses. In: Dietary ω3 and ω6 Fatty Acids, C. Galli, A.P. Simopoulos (Eds.), Plenum Publishing Corporation, NY, pps. 227-239, 1989.
- 78.**Bazan NG**: Supply of n-3 polyunsaturated **fatty acids** and their significance in the central nervous system. In: Nutrition and the Brain, Vol 8. RJ Wurtman and JJ Wurtman (eds), Raven Press Ltd, NY, pp 1-24, 1990.
- 79.**Bazan NG** and Bazan HEP: Ocular responses to inflammation and the triggering of wound healing: Lipid mediators, proto-oncogenes, gene expression and neuromodulation. In: New Trends in Lipid Mediators Research. Lipid Mediators in Eye Inflammation, Vol 5, NG Bazan (ed), Karger, Basel, Switzerland, pp 168-180, 1990.
- 80.**Bazan NG**: Involvement of arachidonic acid and platelet-activating factor in the response of the nervous system to ischemia and convulsions. In: New Trends in Lipid Mediators Research. Lipid Mediators in Ischemic Brain Damage and Experimental Epilepsy, Vol 4, NG Bazan (ed), S Karger AG, Basel, Switzerland, pp 241-252, 1990.
- 81.**Bazan NG**, Bazan HEP: Lipid mediators in uveitis and ocular inflammation. In: Séminaires Ophthalmologiques d'IPSEN t.2, Physiologie, pathologie et génétique oculaires, Y Christen, M Doly, MT Droy-Lefaix (Eds), Springer, Verlag pp 53-61, 1990.
- 82.Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Preferential uptake and metabolism of **docosahexaenoic acid** in membrane phospholipids from rod and cone photoreceptor cells of human and monkey retinas. In: J Neurosci Res- Annual Bound, Special Topics Edition. Wiley-Liss, NY, 1990.
- 83.**Bazan NG**, Scott BL: Dietary omega-3 **fatty acids** and accumulation of **docosahexaenoic acid** in rod

- photoreceptor cells of the retina and at synapses. *Uppsala J Med Sci, Suppl* 48:97-107, 1990.
84. **Bazan NG:** Lipoxygenation of arachidonic acid (AA) in retina. In: Proceedings of the 17th Collegium Internationale Neuro-Psychopharmacologicum Congress. Clinical Neuropharmacology 13:651-652, Raven Press, NY, 1990.
85. **Bazan NG:** Neuronal cell signal transduction and second messengers in cerebral ischemia. In: Pharmacology of Cerebral Ischemia, Proceedings of the Third International Symposium on Pharmacology of Cerebral Ischemia, J Kriegstein, H Oberpichler (eds), Wissenschaftliche Verlagsgesellschaft, Stuttgart (FRG) pp. 391-398, 1990.
86. Gilboe DD, Kintner D, Fitzpatrick JH, Emoto SE, Braquet PG, **Bazan NG:** Treatment of post-ischemic brain with a free radical scavenger and a platelet-activating factor antagonist: Recovery of metabolism and function. In: Pharmacology of Cerebral Ischemia, J Kriegstein, H. Oberpichler (eds) Wissenschaftliche Verlagsgesellschaft mbH Stuttgart, pp. 399-407, 1990.
87. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: **Docosahexaenoic acid** and phospholipid metabolism in photoreceptor cells and in retinal degeneration. In: Retinal Degenerations, Chapter 14, RE Anderson, JG Hollyfield, MM LaVail (eds), CRC Press, Boca Raton, Florida, pp. 151-165, 1991.
88. **Bazan NG:** New insights in retinal degenerative diseases: The role of polyunsaturated **fatty acids** in visual cell function. In: New Frontiers in Ophthalmology, Excerpta Medica, International Congress Series 920, CY Khoo, BC Ang, WW Cheah, PTK Chew, ASM Lim (eds), Elsevier Science Publishers B.V., The Netherlands, pp 602-604, 1991.
89. Balazy M, Cluzel J, **Bazan NG:** A novel method for the analysis of PAF and alkyl-ether phospholipids by mass spectrometry. Adv in Prostaglandin, Thromboxane, and Leukot Res, Vol 21, Samuelsson B et al (eds), Raven Press, Ltd., NY, pp. 323-327, 1991.
90. **Bazan NG**, Braquet P, Ginsberg MD, Editors: Neurochemical Correlates of Cerebral Ischemia. Vol 7 Advances in Neurochemistry. Plenum Press, NY, 1992.
91. Ginsberg MD, Braquet P, **Bazan NG:** Introduction: Current biochemical and molecular approaches to the study of cerebral ischemia. In: Neurochemical Correlates of Cerebral Ischemia. Vol 7 Advances in Neurochemistry. NG Bazan, P Braquet, MD Ginsberg (eds). Plenum Press, NY, pp 1-8, 1992.
92. **Bazan NG:** Modulators of neural cell signaling and triggering of gene expression following cerebral ischemia. In: Neurochemical Correlates of Cerebral Ischemia. Vol 7 Advances in Neurochemistry. NG Bazan, P Braquet, MD Ginsberg (eds). Plenum Press, NY, pp 321-333, 1992.
93. **Bazan NG**, Gordon WC, Rodriguez de Turco EB: **Docosahexaenoic acid** uptake and metabolism in photoreceptors: Retinal conservation by an efficient retinal pigment epithelial cell-mediated recycling process. In: Neurobiology of Essential Fatty Acids, Vol. 318, (NG Bazan, M Murphy, G Toffano eds), Plenum Press, NY, pp 295-306, 1992.
94. **Bazan NG**, Rodriguez de Turco EB: Accumulation of lipid-derived second messengers during seizures and ischemia: Decreased seizure-induced phospholipase C activation in the hippocampus by EGb 761. In: Effects of Ginkgo biloba Extract (EGb 761) on the Central Nervous System. (Y. Christen, J. Costentin, M. Lacour, eds), Elsevier, Paris, pp 159-169, 1992.
95. **Bazan NG:** Supply, uptake and utilization of **docosahexaenoic acid** during photoreceptor cell differentiation. In: Polyunsaturated Fatty Acids in Human Nutrition, Bracco U, Deckelbaum (eds.), Nestlé Nutrition Workshop Series, Vol. 28, Nestec Ltd., Vevey/Raven Press Ltd., NY, pp 121-133, 1992.
96. **Bazan NG**, Cluzel JM: Membrane-derived lipid second messengers as targets for neuroprotection: Platelet-activating factor. In: Emerging Strategies in Neuroprotection, Advances in Neuroprotection, Marangos PJ, Lal H (eds), Birkhäuser, Boston, pp 238-251, 1992.
97. Clark GD, Happel LT, Zorumski CF, **Bazan NG:** A novel presynaptic receptor that modulates the release of excitotoxic neurotransmitters. In: Pharmacology in Cerebral Ischemia, J. Kriegstein, H.

- Oberpichler-Schwenk (eds), Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart, pp 65-71, 1992.
98. Doucet JP, **Bazan NG**: Excitable membranes, lipid messengers, and immediate-early genes: Alteration of signal transduction in neuromodulation and neurotrauma. *Mol Neurobiol* 6(4):407-424, 1992.
99. Yavin E, Kunievsky B, **Bazan NG**, Harel S: Regulation of arachidonic acid metabolism in the perinatal brain during development and under ischemic stress. In: *Adv Exp Med Biol*. pp 315-323, 1992.
100. **Bazan NG**: Second messengers derived from excitable membranes are involved in ischemic and seizure-related brain damage. *Path Physiol & Exp Therapy* 4:11-16, 1992.
101. Rodriguez de Turco EB, Droy-Lefaix MT, **Bazan NG**: EGb 761 inhibits stress-induced polydipsia in rats. *Physiology and Behavior* 53:1001-1002, 1993.
102. **Bazan NG**, Martin RE, Rodriguez de Turco EB, Gordon WC: Alterations in the metabolism and supply of an essential **fatty acid** to photoreceptor cells in retinal degenerative diseases. In: *Proceedings International Symposium Retinitis Pigmentosa*, E. Rinaldi (ed), Liviana Medicina pp. 115-130, 1993.
103. **Bazan NG**, Doucet JP: Platelet-activating factor and intracellular signaling pathways that modulate gene expression. In: *Platelet-Activating Factor Receptors: Signal Mechanisms and Molecular Biology*, S. Shukla, (ed) CRC Press Inc., Boca Raton, FL, pp 137-146, 1993.
104. **Bazan NG**, Rodriguez de Turco EB, Gordon WC, Strand VC, Martin RE: Systemic alterations in **docosahexaenoic acid** metabolism in inherited retinal degenerations. In: *Retinal Degenerations: Clinical and Laboratory Applications*. J.G. Hollyfield, M.M. LaVail, and R.E. Anderson (eds.). Plenum Press, NY, pp 259-270, 1993.
105. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: Supply, uptake, and retention of **docosahexaenoic acid** by the developing mature retina and brain. In: *Lipids, Learning, and the Brain: Fats in Infant Formulas*. Report of the 103rd Ross Conference on Pediatric Research, Dobbing J (ed). Columbus, OH: Ross Laboratories, pp. 27-46, 1993.
106. Doucet JP, **Bazan NG**: A neural primary genomic response to the lipid mediator platelet-activating factor. In: *Phospholipids and Signal Transmission*. R Massarelli, LA Horrocks, JN Kanfer, R Löffelholz, (eds). Springer-Verlag Berlin Heidelberg, Germany, vol 70, pp 411-426, 1993.
107. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: **Docosahexaenoic acid** supply to the retina and its conservation in photoreceptor cells by active retinal pigment epithelium-mediated recycling. In: *World Review of Nutrition and Dietetics, Vol. 75*, Bazan, NG *et al.* (eds.), Basel, Karger, pp. 120-3, 1994.
108. **Bazan NG**: Platelet-activating factor is a synapse messenger and an intracellular modulator of gene expression. Plenary Lecture at Fourth International Congress on PAF and Related Lipid Mediators, Snowbird, UT. *J Lipid Med* 10:83-86, 1994.
109. **Bazan NG**: Signals, messages and genes in cerebral ischemia: Novel sites for neuroprotection. In: *Pharmacology of Cerebral Ischemia 1994*. J Kriegstein, H Oberpichler-Schwenk (eds.), Wissenschaftliche Verlagsgesellschaft mbH Stuttgart, pp. 3-15, 1994.
110. **Bazan NG**, Allan G: Phospholipid degradation, second messengers and activation of cell signaling genes. In: *Cell Signal Transduction, Second Messengers, and Protein Phosphorylation in Health and Disease*. AM Municio and MT Miras-Portugal (eds.), Plenum Press, New York, pp. 95-100, 1994.
111. **Bazan NG**: Inflammation: A signal terminator. *Nature* 374:501-502, 1995.
112. **Bazan NG**, Marcheselli VL, Mukherjee PK: Inducible prostaglandin synthase in cell injury. In: *Advances in Prostaglandin, Thromboxane, and Leukotriene Research*, Vol 23, B Samuelsson *et al.*, (eds.) Raven Press, New York, pps. 317-323, 1995.
113. Lukiw WJ, **Bazan NG**, McLachlan DRC: Relative RNA message abundance in control and Alzheimer's disease-affected human neocortex. In: *Research Advances in Alzheimer's Disease and Related Disorders*, Chapter 47, K Iqbal, JA Mortimer, B Wimblad, HM Wisniewski (eds.),

- John Wiley & Sons, England, pp 438-445, 1995.
114. **Bazan NG:** Regulation of the inducible prostaglandin synthase gene and second messengers in brain: Implications for stroke. In: Cerebrovascular Diseases, Nineteenth Princeton Stroke Conference, Chapter 20, MA Moskowitz and LR Caplan (eds), Butterworth-Heinemann, Newton, MA, pp 231-250, 1995.
115. Cluzel J, Doly M, **Bazan NG**, Bonhomme B, Braquet P: Inhibition of platelet-activating factor-induced retinal impairments by cholera and pertussis toxins. *Ophthalmic Res* 27(3): 153-7, 1995.
116. **Bazan NG:** Editorial Comment. *Stroke* 26:2327, 1995.
117. **Bazan NG:** Editorial Comment. *Stroke* 27:535, 1996.
118. **Bazan NG**, Rodriguez de Turco EB: Alterations in plasma lipoproteins and **DHA** transport in progressive rod-cone degeneration (prcd). In: Retinal Degeneration and Regeneration, Proceedings of an International Symposium in Kanazawa, Japan, July 8-9, 1995. S Kato, NN Osborne, and M Tamai, (eds.), Kugler Publications, Amsterdam, NY, pps. 89-97, 1996.
119. **Bazan NG**, Allan G, Marcheselli VL: An inhibitor of injury-induced COX-2 transcriptional activation elicits neuroprotection in a brain damage model. In: Improved Non-Steroid Anti-Inflammatory Drugs: COX-2 Enzyme Inhibitors. Sir J Vane, J Botting and R Botting (eds.), Kluwer Academic Publishers, Lancaster, United Kingdom, 9:145-166, 1996.
120. Lukiw WJ, McLachlan DR, **Bazan NG**: RNA message levels in normal aging- and in Alzheimer's disease (AD) affected-human temporal lobe neocortex. In: Neurodegenerative Diseases: Molecular and Cellular Mechanisms and Therapeutic Advances, G Fiskum (ed.), Plenum Publishing Corporation, NY, pp 141-145, 1996.
121. **Bazan NG**, Kolko M, Allan G: Excitable membrane-derived lipid mediators: Glutamate release and regulation of gene expression. In: Neurodegenerative Diseases: Molecular and Cellular Mechanisms and Therapeutic Advances, G Fiskum (ed.), Plenum Publishing Corporation, NY, pps 409-425, 1996.
122. **Bazan NG**, Allan G: Platelet-activating factor is both a modulator of synaptic function and a mediator of cerebral injury and inflammation. In: Advances in Neurology, Vol. 71: Cellular and Molecular Mechanisms of Ischemic Brain Damage. B Siesjö and T Wieloch (eds.), Lippincott-Raven Publishers, Philadelphia, 37:475-484, 1996.
123. **Bazan NG**, Marcheselli VL, Allan G, van Meter K, Moises JP: Brain COX-2 in experimental models of epilepsy and stroke: Signaling pathways leading to enhanced expression. In: New Targets in Inflammation:Inhibitors of COX-2 or Adhesion Molecules, NG Bazan, J Botting, JR Vane (eds.), William Harvey Press and Kluwer Academic Publishers, United Kingdom, pp 1-14, 1996.
124. **Bazan NG**, Botting J, Vane JR (editors): New Targets in Inflammation:Inhibitors of COX-2 or Adhesion Molecules, William Harvey Press and Kluwer Academic Publishers, United Kingdom, 1996.
125. **Bazan NG:** Inflammatory signaling pathways in pharmacology of cerebral ischemia. In: Pharmacology of Cerebral Ischemia. J Kriegelstein, Medpharm Scientific Publ, Stuttgart, pp 173-180, 1996.
126. **Bazan NG**, Ranwell Caputto (January 1, 1914-April 19, 1994): A life of commitment to science. *Molecular Neurobiology* 12(2) 1996.
127. **Bazan NG:** In memoriam: Ranwell Caputto (January 1, 1914-April 19, 1994): A life of commitment to science. *J Neurosci Res* 46(3):393-4, 1996.
128. **Bazán NG**, Martínez J, Rodríguez de Turco EB, Palacios R: Biología molecular en la alergia y en la respuesta inflamatoria. *XX Jornadas Cararias de Alergia e Immunología Clínica*, pp. 315-325, 1997.
129. **Bazan NG**, Allan G: Signal transduction and gene expression in eye: A contemporary view of the pro-inflammatory, anti-inflammatory and modulatory roles of prostaglandins and other bioactive lipids. *Surv of Ophthalmol* 41[Suppl 2]:S23-S34, 1997.

130. **Bazan NG:** Lipid messengers and prostaglandin endoperoxide synthase-2 in neuronal cell death. In: Primer Cerebrovascular Diseases. M Welsh, L Chaplan, D Reis, B Siesjö, B Weir (eds), Academic Press, pp 193-195, 1997.
131. **Bazan NG:** Synaptic messengers, inflammatory mediators, and neuronal plasticity in cerebral ischemia. In: Maturation Phenomenon in Cerebral Ischemia II, Neuronal Recovery and Plasticity, U Ito, T. Kuroiwa, I. Klatzo (eds), Springer-Verlag Berlin Heidelberg, pps 19-25, 1997.
132. Gordon WC, **Bazan NG:** Retina. In: Retinal Biochemistry. Chapter 6, John J. Harding (ed). Chapman and Hall, London, pps. 144-246, 1997.
133. **Bazan NG**, Marcheselli VL, Mukherjee PK, Lukiw WJ, Gordon WC, Zhang D: COX-2 in brain and retina: Role in neuronal survival. In: Selective COX-2 Inhibitors, Pharmacology, Clinical Effects and Therapeutic Potential. J Vane, J Botting (eds), Chapter 4, Kluwer Academic Publishers and William Harvey Press, London, UK, pp. 47-53, 1997.
134. **Bazan NG**, Allan G: The site of action of bioactive lipids as a target for neuroprotection. In: Neuroprotection in CNS Diseases. PR Bär, MF Beal (eds.), Marcel Dekker, Inc., NY, pps. 205-224, 1997.
135. **Bazan NG** and Allan G: Platelet-activating factor and other bioactive lipids. In: Cerebrovascular Disease, Pathophysiology, Diagnosis and Management. MD Ginsberg, J Bogousslavsky (eds). Chapter 37, Blackwell Science Publishers, Malden, Massachusetts, pps. 532-555, 1998.
136. **Bazan NG:** The neuromessenger, platelet-activating factor, in plasticity and neurodegeneration. In: Progress in Brain Research. RR Mize, TM Dawson, VL Dawson and MJ Friedlander (eds), Elsevier Science BV, Amsterdam, Chapter 20, pp. 281-291, 1998.
137. **Bazan NG:** Bioactive lipids and gene expression in neuronal plasticity. *Adv Exp Med Biol* 446:37-49, 1998.
138. **Bazan NG**, Black B: Synaptic signaling dysfunction in status epilepticus: Injury messenger gene expression. In: Advances in Neurology: Status Epilepticus. AV Delgado-Escueta, CG Wasterlain, DM Treiman, RJ Porter (eds), Lippincott-Raven Publishers, NY, 1998.
139. Lukiw WJ, **Bazan NG:** Aluminum and gene transcription in Alzheimer's disease and related neurodegenerative disorders. In: Proceedings of the Vth Conference of the International Society for Trace Element Research in Humans (ISTERH), Lyon, France, September 26-October 1, 1998, Smith-Gordon Company, Limited London.
140. **Bazan NG:** Eicosanoids, platelet-activating factor and inflammation. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 6th Edition, GJ Siegel *et al.*, (eds), Chapter 35, Lippincott-Raven Publishers, Philadelphia, 731-741, 1999.
141. Gordon WC, Colangelo V, **Bazan NG** and Klatzo I: Aspects of the maturation phenomenon observed by the TUNEL method. In: Maturation Phenomenon in Cerebral Ischemia III, Defensive Mechanisms vs. Apoptosis; Neuronal Recovery and Protection in Cerebral Infarction. U Ito, C Fieschi, F Orzi, T Kuroiwa and I Klatzo (eds), Springer-Verlag Berlin Heidelberg pps. 15-23, 1999.
142. **Bazan NG:** The inflammatory mediator platelet-activating factor and the inducible prostaglandin synthase (COX-2) gene in CNS diseases. In: Inflammatory Cells and Mediators in CNS Diseases. Ruffolo *et al* (eds), Harwood Academic Publishers, Amsterdam, The Netherlands, pp. 245-255, 1999.
143. Lukiw WJ, **Bazan NG:** Aluminum impairs transcription from RNA and DNA templates. In Proceedings of the Vth Conference of the International Society for Trace Element Research in Humans (ISTERH), September 26-30, 1998, Lyon, France, M Bost and S Gamon (eds), Smith-Gordon Company, Limited, London, pps. 185-190, 1999.
144. **Bazan NG**, Serou M: Second messengers, long-term potentiation, gene expression and epileptogenesis. In: Jasper's Basic Mechanisms of the Epilepsies, Third Edition: Advances in Neurology, Vol. 79, AV Delgado-Escueta, WA Watson, RW Olsen and RJ Porter (eds), Lippincott

- Williams & Wilkins, Philadelphia, pps. 659-64, 1999.
145. **Bazan NG**: COX-2 as a multifunctional neuronal modulator. *Nature Medicine* 7:414-415, 2001.
146. **Bazan NG**, Ito U, Marcheselli VL, Kuroiwa T, and Klatzo I (editors): Maturation Phenomenon in Cerebral Ischemia IV. Springer-Verlag Publishers, Heidelberg, Germany, 2001.
147. **Bazan NG**: Docosanoids and retina neuroprotection. In: New Strategies in the Management of Glaucoma. *Rev of Ophthal* (Suppl) 6:15-18, 2001.
148. **Bazan NG** and Rodriguez de Turco EB: Synaptic lipid signaling and neuronal survival: Potential targets for pharmacological intervention. In: Neuroprotection: Basic & Clinical Aspects, Chapter 9, Eng H. Lo and Joe Marwah (eds.), Prominent Press, pps. 196-214, 2001.
149. **Bazán NG**, Barreiro SB, Soriano MH, Rodríguez de Turco EB: Nuevos conceptos en la patofisiología de glaucoma: Sobrevivencia de las células ganglion de la retina. *Médico Oftalmólogo* 14:20-23, 2001.
150. **Bazan NG**, Palacios-Pelaez R, Lukiw WJ: Hypoxia signaling to genes: Significance in Alzheimer's disease. *Molecular Neurobiology* Fifteenth Anniversary Issue 26 (2/3):283-298, 2002.
151. **Bazan NG**, Tu B, Rodriguez de Turco, EB: What synaptic lipid signaling tells us about seizure-induced damage and epileptogenesis? In: Do Seizures Damage the Brain? Vol. 135, T. Sutula and A. Pikänen (eds.), Elsevier Science B.V. *Prog in Brain Res* Chapter 15, pps. 175-185, 2002.
152. **Bazan NG**, Colangelo V, Lukiw WJ: Prostaglandins and other lipid mediators in Alzheimer's disease. In: Prostaglandins and Other Lipid Mediators. Molecular Biology of the Arachidonate Cascade, 2nd Edition S. Yamamoto and WL Smith (eds.) 68-69, 197-210, 2002.
153. **Bazan NG**: Synaptic signaling and mitochondrial dysfunction in ischemia-reperfusion damage: Pharmacologic targets in intracellular lipid signaling. In: Pharmacology of Cerebral Ischemia 2002, Kriegstein J and Klumpp S (eds.) medpharm Scientific Publishers, Stuttgart, pps. 17-29, 2002.
154. Rodriguez de Turco, EB, Belayev L, Liu Y, Bust R, Parkins N, **Bazan NG**, Ginsberg MD: The effects of transient focal cerebral ischemia and of neuroprotective therapy with human albumin on systemic **fatty acids** response. In: Pharmacology of Cerebral Ischemia 2002, Kriegstein J and Klumpp S (eds.) pps. 431-439, 2002.
155. **Bazan NG**: Juana Maria Pasquini: A role model for young neurochemists. *Neurochem Res* 11:1257-8, 2002.
156. Pappola MA, Petanceska S, Refolo L, **Bazan NG**: Cholesterol, beta-amyloid, and Alzheimer's disease. In: Advances in Cell Aging and Gerontology, Membrane Lipid Signaling in Aging and Age-Related Diseasese, M. Mattson (ed.), Chapter 9, pps. 163-176, 2003.
157. **Bazan NG**, Rodriguez de Turco EB: Retinal **docosahexaenoic acid**, age-related diseases, and glaucoma. In: Advances in Cell Aging and Gerontology, Membrane Lipid Signaling in Aging and Age-Related Diseases, M. Mattson (ed.), Chapter 11, pps.205-222, 2003.
158. Cortina MS, Gordon WC, Lukiw WJ, **Bazan NG**: DNA repair in photoreceptor survival. *Mol Neurobiol* 28:111-122, 2003.
159. **Bazan NG**: Synaptic lipid signaling: Significance of polyunsaturated **fatty acids** and platelet-activating factor. *J Lipid Res* 44:2221-2233, 2003.
160. Cortina MS, Gordon WC, Lukiw WJ, **Bazan NG**: Light-induced photoreceptor damage triggers DNA repair: Differential fate of rods and cones. In: Retinal Degenerations: Mechanisms and Experimental Therapy. La Vail MM, Hollyfield JG, Anderson RE (eds.) Kluwer Academic/Plenum Publishers, New York, NY pps. 229-240, 2003.
161. Saunders RD, **Bazan NG**: Arachidonate remodeling, platelet-activating factor signaling, and the inflammatory response in the central nervous system. In: Arachidonate Remodeling and Inflammation. Fonteh AF, Wykle RL (eds.), Birkhauser Verlag Basel/Switzerland pps. 131-143, 2004.
162. Deo DD, **Bazan NG**, Hunt JD: Lipid second messengers and receptors. In: Encyclopedia of

- Endocrine Diseases, Vol. 3, Elsevier Inc., pps. 182-188, 2004.
163. Ginsberg MD, Belayev L, **Bazan NG**, Marcheselli VL, Hill MD, Palesch YY, Khoutorova L, Rodriguez de Turco EB, Ryckborst K, Tamariz D, Bustó R: Albumin-based neurotherapeutics for acute ischemic stroke: From bench to bedside. In Symposium on the Pharmacology of Cerebral Ischemia 2004, Marburg, Germany, (eds.) J. Kriegstein and S. Klumpp, medpharm Scientific Publishers, Stuttgart, pps. 421-433.
164. **Bazan NG**: Endogenous neuroprotection in ischemia-reperfusion by novel **docosahexaenoic acid**-derived messengers. In: Symposium on the Pharmacology of Cerebral Ischemia 2004, Marburg, Germany, (eds.) J. Kriegstein and S. Klumpp, medpharm Scientific Publishers, Stuttgart, pps. 435-443.
165. Lukiw WJ, Pappolla M, Pelaez RP, **Bazan NG**: Alzheimer's disease-a dysfunction in cholesterol and lipid metabolism. *Cell Mol Neurobiol* 25:475-483, 2005.
166. **Bazan NG**: Synaptic signaling by lipids in the life and death of neurons. *Mol Neurobiol* 31:219-30, 2005.
167. **Bazan NG**: Lipid signaling in neural plasticity, brain repair, and neuroprotection. *Mol Neurobiol*. 32:89-103, 2005.
168. Chen C, **Bazan NG**: Lipid signaling: Sleep, synaptic plasticity, and neuroprotection. *Prostaglandins and other Lipid Mediators* 77:65-76, 2005.
169. Tian X, **Bazan NG**: Neuroprotection by platelet-activating factor antagonism. *Ann N Y Acad Sci* 1053:455-456, 2005.
170. **Bazan NG**, Marcheselli VL, Cole-Edwards K: Brain response to injury and neurodegeneration: endogenous neuroprotective signaling. *Ann N Y Acad Sci* 2005, 1053:137-147, 2005.
171. Cole-Edwards KK, **Bazan NG**: Lipid signaling in experimental epilepsy. *Neurochem Res* 30:847-853, 2005.
172. **Bazan NG**: Arachidonic acid signaling in the nervous system. In: Encyclopedia of Life Sciences, John Wiley & Sons, Ltd., 2005.
173. Bazan NG, Marcheselli VL, Cole-Edwards K: Brain response to injury and neurodegeneration. *Ann NY Acad Sci* 1053:137-47, 2005.
174. **Bazan NG**: Eicosanoids, platelet-activating factor, and inflammation. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 7th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (eds.), Chapter 33:575-591, 2006.
175. Mattson MP, **Bazan NG**: Apoptosis and necrosis. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 7th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (eds.), Chapter 35:603-615, 2006.
176. **Bazan NG**: Searching for a new strategy to protect the brain. *Cerebrum* 12-20, 2006.
177. **Bazan NG**: Cell survival matters: **docosahexaenoic acid** signaling, neuroprotection and photoreceptors. *Trends Neurosci* 29:241-294, 2006.
178. Lukiw WJ, **Bazan NG**: Survival signaling in Alzheimer's disease. *Biochem Soc Trans* 34:1277-82, 2006.
179. **Bazan NG**: The onset of brain injury and neurodegeneration triggers the synthesis of docosanoid neuroprotective signaling. *Cell Mol Neurobiol* 26(4-6):901-913, 2006.
180. **Bazan NG**: Survival signaling in retinal pigment epithelial cells in response to oxidative stress: Significance in retinal degenerations. *Adv Exp Med Biol* 572:531-40, 2006.
181. **Bazan NG**: Omega-3 **fatty acids**, pro-inflammatory signaling and neuroprotection. *Curr Opin Clin Nutr Metab Care* 10 (2):136-41, 2007.
182. **Bazan NG**: Homeostatic regulation of photoreceptor cell integrity: Significance of the potent mediator neuroprotectin D1 biosynthesized from docosahexaenoic acid. ARVO 2007 Proctor Medal and Lecture, *Invest Ophthalmol Vis Sci* 48(11):4866-81, 2007.
183. **Bazan NG**: Neurotrophins induce neuroprotective signaling in the retinal pigment epithelial cell by

- activating the synthesis of the anti-inflammatory and anti-apoptotic neuroprotectin D1. In: Recent Advances in Retinal Degeneration, Advances in Experimental Medicine and Biology, R.E. Anderson, M.M. LaVail and J.G. Hollyfield (eds.), Springer, pps. 39-44, 2007.
184. **Bazan NG**: Vision and neurological function supported by potent, stereospecific mediator neuroprotection D1 biosynthesized from docosahexaenoic acid. In: Poly-unsaturated Fatty Acids Neural Function and Mental Health. Proceedings of an International and Interdisciplinary Symposium, Aug. 9, 2007. O.G. Mouritsen and M.A. Crawford (eds.), The Royal Danish Academy of Sciences and Letters, pps. 75-81, 2007.
185. Mukherjee PK, Chawla A, Lozyza MS, **Bazan NG**: Docosanoids are multifunctional regulators of neural cell integrity and fate: Significance in aging and disease. *Prostaglandins, Leukotrienes and Essential Fatty Acids* 77(5-6):233-8, 2007.
186. **Bazan NG**, Marcheselli VL, Lu Y, Hong S, Jackson F: Lipidomic approaches to neuroprotection signaling in the retinal pigment epithelium. In: Signal Transduction in the Retina. S.J. Fliesler and O.G. Kisselev (eds.), Chapter 15: 349-373, 2008.
187. **Bazan NG**: Cell signaling by polyunsaturated fatty acids in epileptogenesis. Encyclopedia of Basic Epilepsy Research, 2008.
188. **Bazan NG**, Musto AE: Inositol lipid signaling in synaptic activity, neuronal plasticity and epileptogenesis. Encyclopedia of Basic Epilepsy Research, 2008.
189. Belayev L, Khoutorova L, Atkins K, Gordon WC, Alvarez-Builla J, **Bazan NG**: LAU-901, a novel platelet-activating factor antagonist, is highly neuroprotective in cerebral ischemia. *Exp Neurol* 214(2):253-8, 2008.
190. **Bazan NG**: Neuroprotectin D1-mediated anti-inflammatory and survival signaling in stroke, retinal degeneration and Alzheimer's disease. *J Lipid Res* 50:S400-405, 2009.
191. Niemoller TD, Stark DT, **Bazan NG**: Omega-3 fatty acid docosahexaenoic acid is the precursor of **neuroprotectin D1** in the nervous system. In: Omega-3 Fatty Acids, the Brain and Retina, AP Simopoulos and NG Bazan (eds.), World Rev Nutr Diet, Basel, Karger, Vol. 99, pps. 46-54, 2009.
192. Galluzzi L, Aaronson SA, Abrams J, Alnermi ES, Andrews DW, Baehrecke EH, **Bazan NG**, Blagoskonny MV, Blomgren K, Borner C, Bredesen DE, Brebber C, Castedo M, Cidlowski JA, Ciechanover A, Cohen GM, De Laurenzi V, De Maria R, Deshmukh M, Dynlacht BD, El-Deiry WS, Flavell RA, Fulda S, Garrido C, Golstein P, Gougeon ML, Green DR, Gronemeyer H, Hajnóczky G, Hardwick JM, Hengartner MO, Ichijo H, Jäättelä M, Kepp O, Kimchi A, Klosky DJ, Knight RA, Kornbluth S, Kumar S, Levine N, Lipton SA, Lugli E, Madeo F, Malorni W, Marine JC, Martin SJ, Medema JP, Mehlen P, Melino, Moll UM, Morselli E, Nagata S, Nicholson DW, Nicteria P, Nuñez G, Oren M, Penninger J, Pervaiz S, Peter ME, Piacentini M, Prehn JH, Puthalakath H, Rabinovich GA, Rizzuto R, Rodrigues CM, Rubinsztein DC, Rudel R, Scorrano L, Simon HU, Steller H, Tschoopp J, Tsujimoto Y, Vandenberghe P, Vitale I, Vousden KH, Youle RJ, Yuan J, Zhivotovsky B, Kroemer G: Guidelines for the use and interpretation of assays for monitoring cell death in higher leukocytes. *Cell Death Diff* 16(8):1093-107, 2009.
193. **Bazan NG**: Cellular and molecular events mediated by docosahexaenoic acid-derived neuroprotectin D1 signaling in photoreceptor cell survival and brain protection. *Prostaglandins Leukot Essent Fatty Acids* 81(2-3):205-11, 2009.
194. Niemoller TD, **Bazan NG**: Docosahexaenoic acid neurolipidomics. *Prostaglandins Other Lipid Mediator* 2010;91(3-4):85-9
195. Zhang C, **Bazan NG**: Lipid-mediated cell signaling protects against injury and neurodegeneration. *J Nutr* 140:858-63, 2010.
196. Calandria JM, Bazan NG: Neuroprotectin D1 modulates the induction of pro-inflammatory signaling and promotes retinal pigment epithelial cell survival during oxidative stress. *Adv Exp Med Biol* 664:663-70, 2010.
197. Lukiw WJ, **Bazan NG**: Inflammatory, apoptotic and survival gene signaling in Alzheimer's disease:

- A Review on the bioactivity of neuroprotectin D1 and apoptosis. *Mol Neurobiol Special Issue Proceedings on Cell Death Signaling at British Pharmacological Society meeting, Edinburgh, UK* 42:10-6, 2010.
198. Palacios-Pelaez R, Lukiw WJ, **Bazan NG**: Omega-3 essential fatty acids modulate initiation and progression of neurodegenerative disease. *Mol Neurobiol Special Issue Proceedings on Novel Strategies for Intervention in Neurodegenerative Diseases at ISN Satellite meeting, Taiwan, Taipei* 41:367-74, 2010.
199. **Bazan NG**, Calandria JM, Serhan CN: Rescue and repair during photoreceptor cell renewal mediated by docosahexaenoic acid-derived neuroprotectin D1. *J Lipid Res* 51:2018-31, 2010.
200. Molina MF, **Bazan NG**: The bioactive mediator neuroprotectin D1. *Lipids News* July 2011.
201. Stark DT, **Bazan NG**: Neuroprotectin D1 induces neuronal survival and downregulation of amyloidogenic processing in Alzheimer's disease cellular models. *Mol Neurobiol Special Issue Proceedings From Synapsis to Neurodegeneration at European Brain Research Institute (EBRI), DZNE and Cell Death & Disease International Conference in honor of Rita Levi-Montalcini, Rome, Italy, July 2010* 43:131-8, 2011.
202. **Bazan NG**, Molina MF, Gordon WC: Docosahexaenoic acid signalolipidomics in nutrition: Significance in aging, neuroinflammation, macular degeneration, Alzheimer's and other neurodegenerative diseases. *Annul Rev of Nutrition* 31:321-51, 2011.
203. **Bazan NG**, Musto AE, Knott EJ: Endogenous signaling by omega-3 docosahexaenoic acid-derived mediators sustains homeostatic synaptic and circuitry integrity. *Mol Neurobiol* 44(2):216-22, 2011.
204. Molina MF, **Bazan NG**: The bioactive mediator neuroprotectin D1 derived from docosahexaenoic acid is a homeostatic cell survival sentinel in the nervous system. *ASBMB Today* 2011 52(9):1601-8.
205. **Bazan NG**, Halabi A, Ertel M, Petasis NA: Neuroinflammation. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 8th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (eds.), Chapter 34, pps. 610-620, 2012.
206. **Bazan NG**, Stark DT, Petasis NA: Lipid mediators: Eicosanoids, docosanoids and platelet-activating factor. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 8th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (eds.), Chapter 36, pps. 643-662, 2012.
207. Belayev L, Lu Y, **Bazan NG**: Brain ischemia and reperfusion: Cellular and molecular mechanisms in stroke injury. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 8th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (eds.), Chapter 35, pps. 621-642, 2012.
208. Mattson MP, **Bazan NG**: Apoptosis and necrosis. In: Basic Neurochemistry: Molecular, Cellular and Medical Aspects, 8th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (eds.), Chapter 37, pps. 663-676, 2012.
209. Brenna T, **Bazan N**, Calder P, Cunnane S. Docosahexaenoic acid in translational medicine: the Tenth Fatty Acids and Cell Signaling meeting (FACS-10). *Prostaglandins Leukot Essent Fatty Acids*. 2013;88(1):1.
210. Melino G, Benedetti B, **Bazan N**. On Rita Levi-Montalcini. *Mol Neurobiol*. 2013;47(2):443-5.
211. Afshordel S, Hagl S, Werner D, Röhner N, Kögel D, **Bazan NG**, Eckert GP. Omega-3 polyunsaturated fatty acids improve mitochondrial dysfunction in brain aging - Impact of Bcl-2 and NPD-1 like metabolites. *Prostaglandins Leukot Essent Fatty Acids*. 2014. pii: S0952-3278(14)00084-2.
212. **Bazan NG**. Is there a molecular logic that sustains neuronal functional integrity and survival? Lipid signaling is necessary for neuroprotective neuronal transcriptional programs. *Mol Neurobiol*. 2014;50(1):1-5.
213. **Bazan NG**. Molecular Principles for Decoding Homeostasis Disruptions in the Retinal Pigment Epithelium: Significance of Lipid Mediators to Retinal Degenerative Diseases. *Adv Exp Med Biol*.

2016;854:385-91.

214. Inflammatory transcription confronts homeostatic disruptions, *Journal of Biological Chemistry Thematic Minireview series 2017*, Nicolas Bazan and George Carman (http://www.jbc.org/site/thematics/inflammatory_transcription/)

Books:

1. **Bazan NG**, Brenner RR, Giusto NM, Editors: Function and Biosynthesis of Lipids. Advances in Experimental Medicine and Biology, Vol. 83, Plenum Publishing Corporation, New York, 646 pages, 53 chapters, 1977.
2. **Bazan NG** and Lolley RN, Editors: Neurochemistry of the Retina, Pergamon Press, Oxford, 572 pages, 40 chapters, 1980.
3. **Bazan NG**, Paoletti R, Iacono J, Editors: New Trends in Nutrition, Lipid Research and Cardiovascular Diseases. Current Topics in Nutrition and Disease. Alan R. Liss, New York, 314 pages, 25 chapters, 1981.
4. Sun GY, **Bazan NG**, Wu JY, Porcellati G, and Sun A, Editors: Neural Membranes, Humana Press, New Jersey, 584 pages, 38 chapters, 1983.
5. **Bazan NG** and U'Prichard D, Editors: Molecular Neurobiology. Humana Press, New Jersey, 1988.
6. **Bazan NG**, Horrocks LA, Freysz L, Toffano G (Editors): Phospholipid Research and the Nervous System. Biochemical and Molecular Pharmacology, Livinia Press, Springer Verlag, Padova, Italy, 1986
7. **Bazan NG** and U'Prichard D, Editors: Molecular Neurobiology. Humana Press, New Jersey, 1989.
8. Barkai AI, **Bazan NG**, Editors: Arachidonic Acid Metabolism in the Nervous System: Physiological and Pathological Significance. Annals of the New York Academy of Sciences, Vol 559, The New York Academy of Sciences, New York, NY, 1989.
9. **Bazan NG**, Editor: Lipid Mediators in Brain Damage and Experimental Epilepsy. New Trends in Lipid Mediators Research, Vol 4, S Karger AG, Basel, Switzerland, 1990.
10. **Bazan NG**, Editor: Lipid Mediators in Eye Inflammation. New Trends in Lipid Mediators Research, Vol 5, S Karger AG, Basel, Switzerland, 1990.
11. **Bazan NG** and U'Prichard D, Editors: Molecular Neurobiology. Humana Press, New Jersey, 1990.
12. **Bazan NG** and U'Prichard D, Editors: Molecular Neurobiology. Humana Press, New Jersey, 1991.
13. **Bazan NG**, Toffano G, Murphy M: Neurobiology of Essential Fatty Acids. Plenum Press, New York, 1991.
14. **Bazan NG** and U'Prichard D, Editors: Molecular Neurobiology. Humana Press, New Jersey, 1992.
15. **Bazan NG**, Braquet P, Ginsberg M, Editors: Neurochemical Correlates of Cerebral Ischemia. Advances in Neurochemistry, Plenum Press, New York, 1992.
16. **Bazan NG**, Botting J, Vane JR, Editors: New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules, William Harvey Press and Kluwer Academic Publishers, United Kingdom, 1996.
17. **Bazan NG**, Ito U, Marcheselli VL, Kuroiwa T, and Klatzo I, Editors: Maturation Phenomenon in Cerebral Ischemia IV. Springer-Verlag Publishers, Heidelberg, Germany, 2001.
18. **Bazan NG**, Marcheselli VL, Lu Y, Hong S, Jackson F: Lipidomic approaches to neuroprotection signaling in the retinal pigment epithelium. 2007.
19. Simopoulos A and **Bazan NG**, Editors: Omega-3 Fatty Acids, the Brain and Retina, World Review of Nutrition and Dietetics, Vol. 99, Karger, 2009.
20. Brady ST, Siegel G, Albers R, Price D, (Editors); Benjamins J, Fisher S, Hall A, **Bazan NG**, Coyle J, Sisodia S (Associate Editors). In: Basic Neurochemistry: Principles of Molecular, Cellular, and Medical Neurobiology, 8th edition. Academic Press, 2012 (new edition is currently being worked on)

Other Books, Films and Collaborations:

1. Una Vida: A Fable of Music and the Mind; Nicolas Bazan (<https://www.amazon.com/Una-Vida-Fable-Music-Mind/dp/158985098X>)
2. The Dark Madonna: A Fable of Resiliency and Imagination; Nicolas Bazan (https://www.amazon.com/Dark-Madonna-Fable-Resiliency-Imagination/dp/0983605890/ref=sr_1_1?s=books&ie=UTF8&qid=1502810231&sr=1-1&keywords=The+Dark+Madonna%2C+Bazan)
3. *Of Mind and Music* (Nicolas Bazan, co-screenplay writer and executive producer; based on the novel Una Vida: A Fable of Music and the Mind) (https://www.amazon.com/Mind-Music-Aunjanue-Ellis/dp/B01DEC7BT8/ref=sr_1_1?ie=UTF8&qid=1502810468&sr=8-1&keywords=of+mind+and+music)

Selected Major Publications - Listed in groups preceded by a brief description of the findings

Finding of brain free docosahexaenoic and arachidonic acid release during seizures and ischemia through phospholipase A₂ (1970).

1. **Bazan NG**: Effects of ischemia and electroconvulsive shock on free **fatty acid** pool in the brain. *Biochim Biophys Acta* 218:1-10, 1970. (**Citation Classic**, "Neural Stimulation or Onset of Cerebral Ischemia Activates Phospholipase A₂", **Bazan NG** *Current Content/Life Sciences* 30:10, 1991).
2. **Bazan NG**, Joel CD: Gradient-thickness thin-layer chromatography for the isolation and analysis of trace amounts of free **fatty acids** in large lipid samples. *J Lipid Res* 11:42-47, 1970.
3. **Bazan NG**, Rakowski H: Increased levels of brain free **fatty acids** after electroconvulsive shock. *Life Sci* 9:501-507, 1970.
4. **Bazan NG**: Free **fatty acid** production in cerebral white and grey matter of the squirrel monkey. *Lipids* 6:211-212, 1971.
5. **Bazan NG**: Changes in free **fatty acids** of brain by drug-induced convulsions, electroshock and anesthesia. *J Neurochem* 18:1379-1385, 1971.

This finding has been referred as the "Bazan effect".

Horrocks LA, Farooqui AA: NMDA receptor-stimulated release of arachidonic acid: Mechanisms for the Bazan effect. In: Cell Signal Transduction, Second Messengers, and Protein Phosphorylation in Health and Disease, AM Municio, MT Miras-Portugal (eds.), Plenum Press, New York, pps. 113-128, 1994.

Sun GY, Xu J, Jensen MD, Simonyi A: Phospholipase A₂ in central nervous system: Implications for neurodegeneration diseases. *J Lipid Res* 45:205-213, 2004.

Demonstration that the brains of newborn mammal and adult poikilotherms accumulate free arachidonic and docosahexaenoic acid sluggishly, correlating with the known resistance of these animals to anoxia. In contrast, mature homeothermic animals, vulnerable to relatively short periods of anoxia, rapidly accumulate arachidonic acid as a result of phospholipase A₂ activation.

6. Aveldano MI, **Bazan NG**: Differential lipid deacylation during brain ischemia in a homeotherm and a poikilotherm. Content and composition of free **fatty acids** and triacylglycerols. *Brain Res* 100:99-110, 1975.
7. Rodriguez de Turco EB, **Bazan NG**: Changes in free **fatty acids** and diglycerides in mouse brain at birth and during anoxia. *J Neurochem* 41:794-800, 1983.

Finding that the diacylglycerol accumulated in brain in ischemia is derived from inositol lipids and postulated the hypothesis that selective vulnerability at synapses is due to degradation of inositol lipids.

8. Aveldano MI, **Bazan NG**: Rapid production of diacylglycerols enriched in arachidonate and stearate during early brain ischemia. *J Neurochem* 25:919-920, 1975.

Demonstration that the activation of phospholipase A₂ that gives rise to brain free arachidonic acid upon stimulation is related to neurotransmission.

9. Aveldano de Caldironi MI, **Bazan NG**: Alpha-Methyl-p-Tyrosine inhibits the production of free arachidonic acid and diacylglycerols in brain after a single electroconvulsive shock. *Neurochem Res* 4:213-221, 1979.

Identification of inositol lipid degradation, and of phospholipase A₂ activation, in neural cell damage in experimental epilepsy and stroke.

10. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Diffusion of intracerebrally injected [¹⁻¹⁴C]arachidonic acid and [2-³H]glycerol in the mouse brain. Effects of ischemia and electroconvulsive shock. *Neurochem Res* 7:1453-1463, 1982.
11. **Bazan NG**, Morelli de Liberti SM, Rodriguez de Turco EB: Arachidonic acid and arachidonoyl-di-glycerides increase in rat cerebrum during bicuculline-induced status epilepticus. *Neurochem Res* 7:839-843, 1982.
12. Pediconi MF, Rodriguez de Turco EB, **Bazan NG**: Effects of post decapitation ischemia on the metabolism of [¹⁴C]arachidonic acid and [¹⁴C]palmitic acid in the mouse brain. *Neurochem Res* 8:835-845, 1983.
13. Rodriguez de Turco EB, Morelli de Liberti S, **Bazan NG**: Stimulation of free **fatty acid** and diacylglycerol accumulation in cerebrum and cerebellum during bicuculline-induced status epilepticus. Effect of pretreatment with alpha-methyl-p-tyrosine and p-chlorophenylalanine. *J Neurochem* 40:252-259, 1983.
14. Van Rooijen LAA, Vadnal R, Dobard P, **Bazan NG**: Enhanced inositide turnover in brain during bicuculline-induced status epilepticus. *Biochim Biophys Res Comm* 136:827-834, 1986.
15. Vadnal RE, **Bazan NG**: Electroconvulsive shock stimulates polyphosphoinositide degradation and inositol trisphosphate accumulation in rat cerebrum: Lithium pretreatment does not potentiate these changes. *Neurosci Lett* 80:75-79, 1987.
16. Reddy TS, **Bazan NG**: Arachidonic acid, stearic acid and diacylglycerol accumulation correlates with the loss of phosphatidylinositol 4,5-bisphosphate in cerebrum 2 seconds after electroconvulsive shock. Complete reversion of changes 5 minutes after stimulation. *J Neurosci Res* 18:449-455, 1987.
17. Vadnal RE, **Bazan NG**: Carbamazepine inhibits the electroconvulsive shock-induced [H]-IP₃ accumulation in rat cerebral cortex and hippocampus. *Biochem Biophys Res Comm* 153:128-134, 1988.
18. Sheu F-S, Marais RM, Parker PJ, **Bazan NG**, Routtenberg A: Neuron-specific protein F1/GAP-43 shows substrate specificity for the beta subtype of protein kinase C. *Biochem Biophys Res Commun* 171:1236-1243, 1990.
19. Katsura K, Rodriguez de Turco EB, Folbergrová J, **Bazan NG**, Siesjö: The coupling among energy failure, loss of ion homeostasis, and lipolysis during ischemia. *J Neurochem* 61:1677-1684, 1993.
20. **Bazan NG**, Allan G, Rodriguez de Turco EB: Role of phospholipase A₂ and membrane-derived lipid second messengers in excitable membrane function and transcriptional activation of genes. Implications in cerebral ischemia. *Prog in Brain Res* 96:247-257, 1993.
21. Visioli F, Rihn LL, Rodriguez de Turco EB, Kreisman NR, **Bazan NG**: Free **fatty acid** and diacylglycerol accumulation in rat brain during recurrent seizures is related to cortical oxygenation. *J Neurochem* 37:54-61, 1994.

Identification of unique features of docosahexaenoic acid metabolism in the retina.

22. Aveldano MI, **Bazan NG**: Free **fatty acids**, diacyl- and triacylglycerols and total phospholipids in vertebrate retina: Comparison with brain, choroid and plasma. *J Neurochem* 23:1127-1135, 1974.
23. Aveldano MI, **Bazan NG**: Displacement into incubation medium by albumin of highly unsaturated retina free **fatty acids** arising from membrane lipids. *Fefs Letters* 40:53-56, 1974.
24. Bazan HEP, **Bazan NG**: Phospholipid composition and (¹⁴C)glycerol incorporation into glycerolipids of toad retina and brain. *J Neurochem* 27:1051-1057, 1976.

25. Giusto NM, **Bazan NG**: Phospholipids and acylglycerols biosynthesis and $^{14}\text{CO}_2$ production from (^{14}C)glycerol in the bovine retina: The effect of incubation time, oxygen and glucose. *Exp Eye Res* 29:155-168, 1979.

Finding that phospholipids in photoreceptors contain two docosahexaenoyl chains per molecule, rather than a saturated chain at C₁ and an unsaturated chain at C₂. Identification of unique metabolism of these novel molecular species of phospholipids.

26. Aveldano de Caldironi MI, **Bazan NG**: Composition and biosynthesis of molecular species of retina phosphoglycerides. *Neurochem Internat* 1:381-392, 1980.
27. **Bazan NG**: Metabolism of phospholipids in the retina. *Vision Res* 22:1539-1548, 1982.
28. Aveldano MI, **Bazan NG**: Molecular species of phosphatidylcholine, -ethanolamine, -serine and -inositol in microsomal and photoreceptor membranes of bovine retina. *J Lipid Res* 24:620-627, 1983.
29. Aveldano MI, Pasquare de Garcia SJ, **Bazan NG**: Biosynthesis of molecular species of inositol, choline, serine, and ethanolamine glycerophospholipids in the bovine retina. *J Lipid Res* 24:628-638, 1983.

Identification of the activating enzyme for docosahexaenoic acid with very low Km that allows photoreceptors and other excitable membranes retain this fatty acid.

30. Reddy TS, **Bazan NG**: Kinetic properties of arachidonoyl-coenzyme A synthetase in rat brain microsomes. *Arch Biochem Biophys* 226:125-133, 1983.
31. Reddy TS, **Bazan NG**: Synthesis of arachidonoyl coenzyme A and docosahexaenoyl coenzyme A in retina. *Curr Eye Res* 3:1225-1232, 1984.
32. Reddy TS, Sprecher H, **Bazan NG**: Long-chain acyl coenzyme A synthetase from rat brain microsomes: Kinetic studies using [$1-^{14}\text{C}$]docosahexaenoic acid substrate. *Eur J Biochem* 145:21-29, 1984.
33. Reddy TS, **Bazan NG**: Synthesis of docosahexaenoyl-, arachidonoyl- and palmitoyl-coenzyme A in ocular tissues. *Exp Eye Res* 41:87-95, 1985.
34. Reddy TS, **Bazan NG**: Synthesis of arachidonoyl coenzyme A and docosahexaenoyl coenzyme A in synaptic plasma membranes of cerebrum, cerebellum and brain stem of rat brain. *J Neurosci Res* 13:381-390, 1985.

Demonstration that the concept commonly described in textbooks that the essential fatty acid docosahexaenoic acid is introduced through the acylation-deacylation cycle in retina membranes (and in other excitable membranes) is incorrect. Rather, Dr. Bazan laboratory found that this fatty acid is introduced through the de novo synthesis of phosphatidic acid.

35. Giusto NM, **Bazan NG**: Phosphatidic acid of retinal microsomes contains a high proportion of docosahexaenoate. *Biochem Biophys Res Comm* 91:791-794, 1979.
36. **Bazan NG**, di Fazio de Escalante MS, Careaga MM, Bazan HEP, Giusto NM: High content of 22:6 (docosahexaenoate) and active [$2-^3\text{H}$]glycerol metabolism of phosphatidic acid from photoreceptor membranes. *Biochim Biophys Acta* 712:702-706, 1982.
37. Bazan HEP, Careaga MM, Sprecher H, **Bazan NG**: Chain elongation and desaturation of eicosapentaenoate to docosahexaenoate and phospholipid labeling in the rat retina *in vivo*. *Biochim Biophys Acta* 712:123-128, 1982.
38. Bazan HEP, Sprecher H, **Bazan NG**: De novo biosynthesis of docosahexaenoyl phosphatidic acid in bovine retinal microsomes. *Biochim Biophys Acta* 796:11-19, 1984.

Identification that leukotrienes, HETEs (hydroxyeicosatetraenoic acids), inositol lipids and prostaglandins are key molecules in the communication between retinal pigment epithelial cells and photoreceptors.

39. Birkle DL, **Bazan NG**: Lipoxygenase and cyclooxygenase reaction products and incorporation into glycerolipids of radiolabeled arachidonic acid in the bovine retina. *Prostaglandins* 27:203-216, 1984.

40. Birkle DL, **Bazan NG**: Effects of K⁺ depolarization on the synthesis of prostaglandins and hydroxyeicosatetra(5,8,11,14)enoic acids (HETE) in the rat retina. Evidence for esterification of 12-HETE in lipids. *Biochim Biophys Acta* 795:564-573, 1984.
41. **Bazan NG**, Birkle DL, Reddy TS: **Docosahexaenoic acid** (22:6, n-3) is metabolized to lipoxygenase reaction products in the retina. *Biochem Biophys Res Comm* 125:741-747, 1984.
42. **Bazan NG**, Bazan HEP, Birkle DL, Rossowska M: Synthesis of leukotrienes in the frog retina and retinal pigment epithelium. *J Neurosci Res* 18:591-596, 1987.
43. Birkle DL, Rossowska M, Woodland J, **Bazan NG**: Increased levels of leukotriene C₄ in retinal pigment epithelium are correlated with early events in photoreceptor shedding in *Xenopus laevis*. *Curr Eye Res* 8:557-561, 1989.
44. Rodriguez de Turco EB, Gordon WC, **Bazan NG**: Light stimulates *in vivo* inositol lipid turnover in frog retinal pigment epithelial cells at the onset of shedding and phagocytosis of photoreceptor membranes. *Exp Eye Res* 55:719-725, 1992.
45. Beuckmann CT, Gordon WC, Kanaoka Y, Eguchi N, Marcheselli VL, Gerashchenko DY, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin-type prostaglandin D synthase (β -trace) is located in pigment epithelial cells of rat retina and accumulates within interphotoreceptor matrix. *J Neurosci* 16:6119-6124, 1996.
46. Gerashchenko DY, Beuckmann CT, Marcheselli VL, Gordon WC, Kanaoka Y, Eguchi N, Urade Y, Hayaishi O, **Bazan NG**: Localization of lipocalin-type prostaglandin D synthase (β -trace) in iris, ciliary body, and eye fluids. *Invest Ophthalmol Vis Sci* 39:198-203, 1998.
47. Gerashchenko D, Beuckmann CT, Kanaoka Y, Eguchi N, Gordon WC, Urade Y, **Bazan NG**, Hayaishi O: Dominant expression of rat prostanoid DP receptor mRNA in leptomeninges, inner segments of photoreceptor cells, iris epithelium, and ciliary processes. *J. Neurochem.* 71:937-45, 1998.

Finding that PAF is also an endogenous neurotoxin: demonstration of neuroprotection by PAF antagonists.

48. Panetta T, Marcheselli VL, Braquet P, Spinnewyn B, **Bazan NG**: Effects of a platelet-activating factor antagonist (BN 52021) on free **fatty acids**, diacylglycerols, polyphosphoinositides and blood now in the gerbil brain: Inhibition of ischemia-reperfusion induced cerebral injury. *Biochem Biophys Res Comm* 149:580-587, 1987.
49. Birkle DL, Kurian P, Braquet P, **Bazan NG**: Platelet-activating factor antagonist BN 52021 decreases accumulation of free polyunsaturated **fatty acid** in mouse brain during ischemia and electroconvulsive shock. *J Neurochem* 51:1900-1905, 1988.
50. Marcheselli VL, Rossowska M, Domingo MT, Braquet P, **Bazan NG**: Distinct platelet-activating factor binding sites in synaptic endings and in intracellular membranes of rat cerebral cortex. *J Biol Chem* 265:9140-9145, 1990.
51. Gilboe DD, Kinter D, Fitzpatrick JH, Emoto SE, Esanu A, Braquet PG, **Bazan NG**: Recovery of postischemic brain metabolism and function following treatment with a free radical scavenger and platelet-activating factor antagonists. *J Neurochem* 56:311-319, 1991.

Finding that seizure-induced PAF production activates gene expression.

52. Squinto SP, Block AL, Braquet P, **Bazan NG**: Platelet-activating factor stimulates a Fos/Jun/AP-1 transcriptional signaling system in human neuroblastoma cells. *J Neurosci Res* 24:558-566, 1989.
53. Squinto SP, Braquet P, Block AL, **Bazan NG**: Platelet-activating factor activates HIV promoter in transfected SH-SY5Y neuroblastoma cells and MOLT-4 T lymphocytes. *J Mol Neurosci* 2:79-84, 1990.
54. Marcheselli VL, Rossowska M, Domingo MT, Braquet P, **Bazan NG**: Distinct platelet-activating factor binding sites in synaptic endings and in intracellular membranes of rat cerebral cortex. *J Biol Chem* 265:9140-9145, 1990.
55. **Bazan NG**, Squinto SP, Braquet P, Panetta T, Marcheselli VL: Platelet-activating factor and polyunsaturated **fatty acids** in cerebral ischemia or convulsions: Intracellular PAF-binding sites and activation of a Fos/Jun/AP-1 transcriptional signaling system. *Lipids* 26:1236-1242, 1991.

56. Marcheselli VL, and **Bazan NG**: Platelet-activating factor is a messenger in the electroconvulsive shock-induced transcriptional activation of *c-fos* and *zif-268* in hippocampus. *J Neurosci Res* 37:54-61, 1994.

Identification of a new neuroprotection site.

57. Marcheselli VL, Rossowska M, Domingo MT, Braquet P, **Bazan NG**: Distinct platelet-activating factor binding sites in synaptic endings and in intracellular membranes of rat cerebral cortex. *J Biol Chem* 265:9140-9145, 1990.

Finding that PAF modulates glutamate release and is a retrograde messenger of long-term potentiation and enhances memory formation.

58. Clark GD, Happel LT, Zorumski CF, **Bazan NG**: Enhancement of hippocampal excitatory synaptic transmission by platelet-activating factor. *Neuron* 9:1211-1216, 1992.
59. Jerusalinsky D, Fin C, Quillfeldt JA, Beatriz CF, Schmitz PK, Da Silva RC, Walz R, **Bazan NG**, Medina JH, Izquierdo I: Effect of antagonists of platelet-activating factor receptors on memory of inhibitory avoidance in rats. *Behav and Neural Biol* 62:1-3, 1994.
60. Kato K, Clark GD, **Bazan NG**, Zorumski CF: Platelet activating factor as a potential retrograde messenger in Ca^1 hippocampal long-term potentiation. *Nature* 367:175-179, 1994.
61. Izquierdo I, Fin C, Schmitz PK, Da Silva RC, Jerusalinsky D, Quillfeldt JA, Ferreira MBG, Medina JH, **Bazan NG**: Memory enhancement by intrahippocampal, intraamygdala, or intraentorhinal infusion of platelet-activating factor measured in an inhibitory avoidance task. *Proc Natl Acad Sci* 92:5047-5051, 1995.
62. Packard MG, Teather L, **Bazan NG**: Effect of intra-caudate nucleus injections of platelet-activating factor and the PAF antagonist BN 52021 on memory. *Neurobiol Learn Mem* 66:177-182, 1996.

Finding that Platelet-activating factor (PAF) also activates transcription of the inducible prostaglandin synthase (COX-2).

63. **Bazan NG**, Fletcher BS, Herschman HR, Mukherjee PK: Platelet-activating factor and retinoic acid synergistically activate the inducible prostaglandin synthase gene. *Proc Natl Acad Sci* 91:5252-5256, 1994.
64. Marcheselli VL, **Bazan NG**: Sustained induction of prostaglandin endoperoxide synthase-2 by seizures in hippocampus: Inhibition by a platelet-activating factor antagonist. *J Biol Chem* 271:24794-24799, 1996.
65. Lukiw WJ, **Bazan NG**: Budesonide epimer R or dexamethasone selectively inhibit PAF- or IL-1 β -induced DNA-binding activity of cis-acting transcription factors and cyclooxygenase-2 gene expression in human epidermal keratinocytes. *Proceedings of the National Academy of Sciences* 95:3914-3919, 1998.

Finding that secretory phospholipases A modulate neuronal survival and glutamate transmission.

66. Kolko M, DeCoster MA, Rodriguez de Turco EB, **Bazan NG**: Synergy by secretory phospholipase A₂ and glutamate on inducing cell death and sustained arachidonic acid metabolic changes in primary cortical neuronal cultures. *J Biol Chem* 271:32722-32728, 1996.
67. Kolko M, Bruhn T, Christensen T, Lazdunski M, Lambeau G, **Bazan NG**, Diemer NH: Secretory phospholipase A₂ potentiates glutamate-induced rat striatal neuronal cell death *in vivo*. *Neurosci Letters* 274:167-170, 1999.
68. Rodriguez de Turco EB, Jackson FR, DeCoster MA, Kolko M, **Bazan NG**: Glutamate signaling and secretory phospholipase A₂ modulate the release of arachidonic acid from neuronal membrane. *J Neurosci Res* 68:558-567, 2002.
69. Kolko M, Nielsen M, **Bazan NG**, Diemer N: Secretory phospholipase A₂ induces delayed neuronal COX-2 expression as compared to glutamate. *J Neurosci Res* 69:169-177, 2002.

Finding that neuronal diacylglycerol kinase epsilon is necessary in seizures and neuroprotection.

70. Rodriguez de Turco EB, Tang W, Tophan MK, Sakane F, Marcheselli VL, Chen C, Taketomi A, Prescott SM, **Bazan NG**: Diacylglycerol kinase ε regulates seizure susceptibility and long-term potentiation through arachidonoyl-inositol lipid signaling. *Proc Natl Acad Sci* 98:4740-4745, 2001.

Demonstration that phagocytosis by retinal pigment epithelial cells induces gene expression.

71. Ershov AV, Lukiw WJ, **Bazan NG**: Selective transcription factor induction in retinal pigment epithelial cells during photoreceptor phagocytosis. *J Biol Chem* 271:28458-28462, 1996.
72. Rodriguez de Turco EB, Parkins N, Ershov AV, **Bazan NG**: Selective retinal pigment epithelial cell lipid metabolism and remodeling conserves photoreceptor **docosahexaenoic acid** following phagocytosis. *J Neurosci Res* 57:479-486, 1999.
73. Ershov AV, **Bazan NG**: Induction of cyclooxygenase-2 gene expression in retinal pigment epithelium cells by photoreceptor rod outer segment phagocytosis and growth factors. *J Neurosci Res* 58:254-261, 1999.
74. Ershov AV, **Bazan NG**: Photoreceptor phagocytosis selectively activates PPAR γ expression in retinal pigment epithelial cells. *J Neurosci Res* 60:328-337, 2000.
75. Ershov AV, Parkins N, Lukiw WJ, **Bazan NG**: Modulation of early response gene expression by prostaglandins in cultured rat retinal pigment epithelium cells. *Curr Eye Res* 21:968-974, 2000.
76. Ershov AV, **Bazan NG**: Selective cyclooxygenase-2 gene expression in retinal pigment epithelium cells by rod outer segments phagocytosis and growth factors. *J Neurosci Res* 58: 254-261, 1999.

Demonstration that genes are upregulated in models of retinal pathoangiogenesis.

77. Lukiw WJ, Gordon WC, Rogaev EI, Thompson H, **Bazan NG**: Presenilin-2 (PS2) expression up-regulation in a model of retinopathy of prematurity and pathoangiogenesis. *NeuroReport* 12:53-57, 2001.
78. Lukiw WJ, Ottlecz A, Lambrou G, Grueninger M, Finley J, **Bazan NG**: Activation of HIF-1 α and NF- κ B-DNA binding and COX-2 and VEGF gene transcription in monkey choroid-retinal RF/6A cells by hypoxia. *Invest Ophthalmol Vis Sci*
79. Lukiw WJ, Ottlecz A, Lambrou G, Grueninger M, Finley J, Thompson HW, **Bazan NG**: Coordinate activation of HIF-1 and NF- κ B DNA binding and COX-2 and VEGF expression in retinal cells by hypoxia. *Invest Ophthalmol Vis Sci* 44:4163-4170, 2003.

Identification that the conservation pathways for docosahexaenoic acid are impaired in Usher's syndrome.

80. **Bazan NG**, Scott BL, Reddy TS, Pelias MZ: Decreased content of docosahexanoate and arachidonate in plasma phospholipids in Usher's syndrome. *Biochem Biophys Res Commun* 141:600-604, 1986.
81. Rodriguez de Turco EB, Gordon WC, Peyman GA, **Bazan NG**: Preferential uptake and metabolism of **docosahexaenoic acid** in membrane phospholipids from rod and cone photoreceptor cells of human and monkey retinas. *J Neurosci Res* 27:522-532, 1990.

Identification of the liver to retina transport route for the essential fatty acid docosahexaenoic acid.

Demonstration of a mechanism for the supply and conservation of the essential fatty acid docosahexaenoic acid in photoreceptors.

82. **Bazan NG**, Reddy TS, Redmond TM, Wiggert B, Chader GJ: Endogenous **fatty acids** are covalently and non covalently bound to interphotoreceptor retinoid-binding protein in the monkey retina. *J Biol Chem* 260:13677-13680, 1985.
83. O'Brien PJ, St. Jules R, Reddy TS, **Bazan NG**, Zatz M: Acylation of disc membrane rhodopsin may be non-enzymatic. *J Biol Chem* 262:5210-5215, 1987.
84. Scott BL, Reddy TS, **Bazan NG**: Docosahexaenoate metabolism and **fatty acid** composition in developing retinas of normal and rd mutant mice. *Exp Eye Res* 44:101-113, 1987.

85. Scott BL, Racz E, Lolley RN, **Bazan NG**: Developing rod photoreceptors from normal and mutant rd mouse retinas: Altered **fatty acid** composition early in development of the mutant. *J Neurosci Res* 20:202-211, 1988.
86. Scott BL, **Bazan NG**: Membrane docosahexanoate is supplied to the developing brain and retina by the liver. *Proc Nat Acad Sci USA* 86:2903-2907, 1989.
87. Gordon WC, **Bazan NG**: **Docosahexaenoic acid** utilization during rod photoreceptor cell renewal. *J Neurosci* 10:2190-2204, 1990.
88. Rodriguez de Turco, EB, Gordon WC, **Bazan NG**: Rapid and selective uptake, metabolism, and cellular distribution of **docosahexaenoic acid** among rod and cone photoreceptor cells in the frog retina. *J Neurosci* 11:3667-3678, 1991.
89. Martin RE, **Bazan NG**: Changing **fatty acid** content of growth cone lipids prior to synaptogenesis. *J. Neurochem* 59:318-325, 1992.
90. Gordon WC, Rodriguez de Turco EB, **Bazan NG**: Retinal pigment epithelial cells play a central role in the conservation of **docosahexaenoic acid** by photoreceptor cells after shedding and phagocytosis. *Curr Eye Res* 11:73-83, 1992.
91. Gordon WC, **Bazan NG**: Visualization of [³H]**docosahexaenoic acid** trafficking through photoreceptors and retinal pigment epithelium by electron microscope autoradiography. *Invest Ophthalmol Vis Sci* 34:2402-2411, 1993.
92. **Bazan NG**, Gordon WC, Rodriguez de Turco EB: The uptake, metabolism, and conservation of **docosahexaenoic acid** (22:6ω3) in brain and retina: Alterations in liver and/or retinal 22:6 metabolism during inherited progressive retinal degeneration. *Amer Oil Chem Soc* pp. 107-115, 1993.
93. **Bazan NG**, Rodriguez de Turco EB, Gordon WC: Pathways for the uptake and conservation of **docosahexaenoic acid** in photoreceptors and synapses: Biochemical and autoradiographic analysis. *Can J Physiol Pharmacol* 71(9):690-698, 1993.
94. Martin RE, Rodriguez de Turco EB, **Bazan NG**: Developmental maturation of hepatic n-3 polyunsaturated **fatty acid** metabolism: Supply of **docosahexaenoic acid** to retina and brain. *J Nutr Biochem* 5:151-160, 1994.

Demonstration that docosahexaenoic acid is transported from the post-Golgi network to the photoreceptor disk membranes with rhodopsin.

95. Rodriguez de Turco EB, Deretic D, **Bazan NG**, Papermaster D: Post-golgi vesicles cotransport docosahexaenoyl-phospholipids and rhodopsin during frog photoreceptor membrane biogenesis. *J Biol Chem* 272:10491-10497, 1997.

Finding that photoreceptors have a DNA repair mechanism that is induced by light damage.

96. Gordon WC, Casey DM, Lukiw WJ, **Bazan NG**: DNA damage and repair in light-induced photoreceptor degeneration. *Invest Ophthalmol Vis Sci* 43:3511-3521, 2002.
97. Cortina MS, Gordon WC, Lukiw WJ, **Bazan NG**: DNA repair in photoreceptor survival *Mol Neurobiol* 28:111-122, 2003.

Identification of prostaglandin D synthetase in the interphotoreceptor matrix and cloning of its receptor.

98. Beuckmann CT, Gordon WC, Kanaoka Y, Eguchi N, Marcheselli VL, Gerashchenko DY, Urade Y, Hayaishi O, **Bazan NG**: Lipocalin-type prostaglandin D synthase (β-trace) is located in pigment epithelial cells of rat retina and accumulates within interphotoreceptor matrix. *J Neurosci* 16:6119-6124, 1996.
99. Gerashchenko DY, Beuckmann CT, Marcheselli VL, Gordon WC, Kanaoka Y, Eguchi N, Urade Y, Hayaishi O, **Bazan NG**: Localization of lipocalin-type prostaglandin D synthase (β-trace) in iris, ciliary body, and eye fluids. *Invest Ophthalmol Vis Sci* 39:198-203, 1998.
100. Geraschenko D, Beuckmann CT, Kanaoka Y, Eguchi N, Gordon WC, Urade Y, **Bazan NG**, Hayaishi O: Dominant expression of rat prostanoid DP receptor mRNA in leptomeninges, inner

segments of photoreceptor cells, iris epithelium, and ciliary processes. *J Neurochem* 71:937-45, 1998.

Introduction of the docosanoids concept and identification of bioactive enzyme-derived oxygenated messengers of docosahexaenoic acid.

101. Bazan NG, Birkle DL, Reddy TS: **Docosahexaenoic acid** (22:6, n 3) is metabolized to lipoxygenase reaction products in the retina. *Biochem Biophys Res Commun* 125:741-747, 1984.
102. Marcheselli VL, Hong S, Lukiw WJ, Tian XH, Gronert K, Musto A, Hardy M, Gimenez JM, Chiang N, Serhan CN, **Bazan NG**: Novel docosanoids inhibit brain ischemia-reperfusion-mediated leukocyte infiltration and pro-inflammatory gene expression. *J Biol Chem* 278:43807-43817, 2003.
103. Belayev L, Marcheselli VL, Khoutorova L, Rodriguez de Turco EB, Bustos R, Ginsberg MD, **Bazan NG**: **Docosahexaenoic acid** complexed to albumin elicits high-grade ischemic neuroprotection. *Stroke* 36:118-23, 2004.
104. Mukherjee PK, Marcheselli VL, Serhan CN, **Bazan NG**: **Neuroprotectin D1**: A docosahexanoic acid-derived docosatriene protects human retinal pigment epithelial cells from oxidative stress. *Proc Natl Acad Sci USA* 101:8491-8496, 2004.
105. Lukiw WJ, Cui JG, Marcheselli VL, Bodker M, Botkjaer A, Gotlinger K, Serhan CN, **Bazan NG**: A role for **docosahexaenoic acid**-derived **neuroprotectin D1** in neural cell survival and Alzheimer disease. *J Clin Invest* 115:2774-2783, 2005.
106. Mukherjee PK, Marcheselli VL, Barreiro S, Hu J, Bok D, **Bazan NG**: Neurotrophins enhance retinal pigment epithelial cell survival through **neuroprotectin D1** signaling. *Proc Natl Acad Sci USA* 104:13152-13157, 2007.
107. Mukherjee PK, Marcheselli VL, de Rivero Vaccari JC, Gordon WC, Jackson F, **Bazan NG**: Photoreceptor outer segment phagocytosis attenuates oxidative stress-induced apoptosis with concomitant **neuroprotectin D1** synthesis. *Proc Natl Acad Sci USA* 104:13158-13163, 2007.
108. **Bazan NG**: Homeostatic regulation of photoreceptor cell integrity: significance of the potent mediator **neuroprotectin D1** biosynthesized from **docosahexaenoic acid**: *the Proctor Lecture*. *Invest Ophthalmol Vis Sci* 48:4866-4881, 2007.
109. Asatryan A, Bazan NG. Molecular mechanisms of signaling via the docosanoid neuroprotectin D1 for cellular homeostasis and neuroprotection. *J Biol Chem*. 2017;292:12390-12397.

Finding of DHA protection in experimental ischemic stroke.

110. Belayev L, Marcheselli VL, Khoutorova L, Rodriguez de Turco EB, Bustos R, Ginsberg MD, **Bazan NG**: **Docosahexaenoic acid** complexed to albumin elicits high-grade ischemic neuroprotection. *Stroke* 36:118-123, 2005.
111. Belayev L, Khoutorova L, Atkins KD, **Bazan NG**: Robust docosahexaenoic acid-mediated neuroprotection in a rat model of transient focal cerebral ischemia. *Stroke* 40(9):3121-6, 2009.
112. Belayev L, Khoutorova L, Atkins KD, Eady TN, Hong S, Lu Y, Obenaus A, **Bazan NG**: **Docosahexaenoic acid** therapy of experimental ischemic stroke. *Transl Stroke Res* 2:33-41, 2011.
113. Eady TN, Khoutorova L, Atkins KD, **Bazan NG**, Belayev L. **Docosahexaenoic acid** complexed to human albumin in experimental stroke: neuroprotective efficacy with a wide therapeutic window. *Exp Transl Stroke Med*. 2012;4(1):19.
114. Eady TN, Belayev L, Khoutorova L, Atkins KD, Zhang C, **Bazan NG**. **Docosahexaenoic Acid** signaling modulates cell survival in experimental ischemic stroke penumbra and initiates long-term repair in young and aged rats. *PLoS One*. 2012;7(10):e46151.
115. Eady TN, Khoutorova L, Anzola DV, Hong SH, Obenaus A, Mohd-Yusof A, **Bazan NG**, Belayev L. Acute treatment with docosahexaenoic acid complexed to albumin reduces injury after a permanent focal cerebral ischemia in rats. *PLoS One*. 2013;8(10):e77237.

Finding of Neuroprotectin D1 protection in experimental epilepsy

- 116. Musto AE, Gjorstrup P, **Bazan NG**: The omega-3 fatty acid-derived **neuroprotectin D1** limits hippocampal hyperexcitability and seizure susceptibility in kindling epileptogenesis. *Epilepsia* 2011;52(9):1601-8.
- 117. Musto AE, Walker CP, Petasis NA, **Bazan NG**. Hippocampal neuro-networks and dendritic spine perturbations in epileptogenesis are attenuated by neuroprotectin d1. *PLoS One*. 2015;10(1):e0116543.

Finding of a transmembrane protein that is necessary for DHA uptake and, in turn, photoreceptor function and cell survival

- 118. Rice DS, Calandria JM, Gordon WC, Jun B, Zhou Y, Gelfman CM, Li S, Jin M, Knott EJ, Chang B, Abuin A, Issa T, Potter D, Platt KA, **Bazan NG**. Adiponectin receptor 1 conserves docosahexaenoic acid and promotes photoreceptor cell survival. *Nat Commun*. 2015;6:6228.

Identification of molecular principles of neuroprotection D1 bioactivity

- 119. Calandria JM, Marcheselli VL, Mukherjee PK, Uddin J, Winkler JW, Petasis NA, **Bazan NG**: Selective survival rescue in 15-lipoxygenase-1-deficient retinal pigment epithelial cells by the novel **docosahexaenoic acid**-derived mediator, **neuroprotectin D1**. *J Biol Chem* 284:17877-17882, 2009.
- 120. Faghiri Z, **Bazan NG**: P13K/Akt and mTOR/p70S6K pathways mediate neuroprotectin D1-induced retinal pigment epithelial cell survival during oxidative stress-induced apoptosis. *Exp Eye Res* 90:718-725, 2010.
- 121. Antony R, Lukiw WJ, **Bazan NG**: Neuroprotectin D1 induces dephosphorylation of BCL-X_L in a PP2A-dependent manner during oxidative stress and promotes retinal pigment epithelial cell survival. *J Biol Chem* 24:18301-18308, 2010.
- 122. Knott EJ, Sheets KG, Zhou Y, Gordon WC, **Bazan NG**: Spatial correlation of mouse photoreceptor-RPE thickness between SD-OCT and histology. *Exp Eye Res* 92:155-60, 2010.
- 123. Calandria J, Mukherjee PK, de Rivero Vaccari JC, Zhu M, Petasis NA, **Bazan NG**: Ataxin-1 poly-Q-induced proteotoxic stress and apoptosis are attenuated in neural cells by **docosahexaenoic acid**-derived **neuroprotectin D1**. *J Biol Chem* 2012;287(28):23726-39.
- 124. Calandria JM, Asatryan A, Balaszczuk V, Knott EJ, Jun BK, Mukherjee PK, Belayev L, **Bazan NG**. NPD1-mediated stereoselective regulation of BIRC3 expression through cREL is decisive for neural cell survival. *Cell Death Differ*. 2015;22(8):1363

Discovery of elovanoids, which illuminates the molecular principles and the bigger picture of docosahexaenoic acid in cellular responses counteracting homeostatic disruptions

- 125. Jun B, Mukherjee PK, Asatryan A, Kautzmann MA, Heap J, Gordon WC, Bhattacharjee S, Yang R, Petasis NA, Bazan NG. Elovanoids are novel cell-specific lipid mediators necessary for neuroprotective signaling for photoreceptor cell integrity. *Sci Rep*. 2017;7:5279.
- 126. Bhattacharjee S, Jun B, Belayev L, Kautzmann MA, Heap J, Obenaus A, Menghani H, Marcell SJ, Khoutorova L, Yang R, Petasis NA, Bazan NG. Elovanoids are a novel class of homeostatic lipid mediators that protect neural cell integrity upon injury. *Sci Adv*. 2017 (in review)