

Rene Anand, PhD

Assistant Professor, Neuroscience Center and Neurology Dept., 1997-2006

Associate Professor, Neuroscience Center and Neurology Dept., 2003-2006

LSU Neuroscience Center of Excellence

Current Position:

Associate Professor

Department of Pharmacology

The Ohio State University College of Medicine

Selected Publications while at LSU Neuroscience Center of Excellence:

Gerzanich, V., Kuryatov, A., **Anand, R.**, and Lindstrom, J. (1997). "Orphan" alpha6 nicotinic AChR subunit can form a functional heteromeric acetylcholine receptor. *Mol. Pharmacol.* 51, 320-327.

Peng, X., Gerzanich, V., **Anand, R.**, Wang, F., and Lindstrom, J. (1997). Chronic nicotine treatment up-regulates alpha3 and alpha7 acetylcholine receptor subtypes expressed by the human neuroblastoma cell line SH-SY5Y. *Mol. Pharmacol.* 51, 776-784.

Wells, G. B., **Anand, R.**, Wang, F., and Lindstrom, J. (1998). Water-soluble nicotinic acetylcholine receptor formed by alpha7 subunit extracellular domains. *J. Biol. Chem.* 273, 964-973.

Anand, R., Gerzanich, V., Wells, G. B., Nelson, M., and Lindstrom, J. (1998). Determinants of channel gating located in the N-terminal extracellular domain of nicotinic alpha7 receptor. *J. Pharmacol. Exp. Ther.* 287, 469-479.

Anegawa, N.J., Grant, E.R., Guttman, R.P., **Anand, R.**, Lindstrom, J., and Lynch, D.R. (2000). N-Methyl-D-aspartate receptor mediated toxicity in nonneuronal cell lines: characterization using fluorescent measures of cell viability and reactive oxygen species production. *Brain Res. Mol. Brain Res.* 77, 163-175.

Anand, R. (2000). Probing the topology of the glutamate receptor GluR1 subunit using epitope tag insertions. *Biochem. Biophys. Res. Comm.* 276, 157-161.

Wells, G. B., Lin, L., Jeanclos, E.M., and **Anand, R.**, (2001). Extracellular domains of the glutamate receptor GluR1 subunit are sufficient for subunit assembly and ligand-binding. *J. Biol. Chem.* 276, 3031-3036.

Jeanclos, E.M., Lin, L., Treuil, M.W., Rao, J., DeCoster, M.A., and **Anand, R.** (2001). The chaperone protein 14-3-3beta interacts with the nicotinic acetylcholine receptor alpha 4 subunit. Evidence for a dynamic role in subunit stabilization. *J. Biol. Chem.* 276, 28281-90.

Braunewell, K-H., Brackmann, M., Schaupp, M., Spilker, C., **Anand, R.**, and Gundelfinger, E.D. (2001). Intracellular neuronal calcium sensor (NCS) protein VILIP-1 modulates cGMP signalling pathways in transfected neural cells and cerebellar granule neurones. *J. Neurochem.* 78, 1277-1286.

Lin, L., Jeanclos, E.M., Braunewell, K.-H., Gundelfinger, E.D., and **Anand, R.** (2002). Functional Analysis of Calcium-binding EF-hand of Visinin-like protein-1 *Biochem. Biophys. Res. Comm.* 296, 827-832.

Lin, L., Jeanclos, E.M., Treuil, M., Braunewell, K.H., Gundelfinger, E.D., **Anand, R.** (2002). The calcium sensor protein visinin-like protein-1 modulates the surface expression and agonist sensitivity of the alpha 4beta 2 nicotinic acetylcholine receptor. *J. Biol. Chem.* 277, 41872-41878.

Brackmann, M, Schuchmann, S., **Anand, R.**, and Braunewell, K-H. (2005). Neuronal Ca⁺⁺ sensor protein VILIP-1 affects cGMP signalling by regulating receptor recycling of guanylyl cyclase B in hippocampal neurons. *J. Cell Science*, 118, 2495-2505.

Ren, X.Q., Cheng, S.B., Treuil, M.W., Mukherjee, J., Rao, J., Braunewell, K.H., Lindstrom, J.M., **Anand, R.** (2005). Structural determinants of alpha4beta2 nicotinic acetylcholine receptor trafficking. *J. Biol. Chem.* 280, 6676-6686.