Ligand-Gated Channels and Computational Neuroscience

October 10  GABA-A Receptors: Agonist Induced Conformational Changes and Protein Mobility in the Channel Lining Segments
MYLES AKABAS, PHD
Associate Professor, Departments of Physiology & Biophysics, Neuroscience, Albert Einstein College of Medicine, Bronx, NY

October 24  Identification of Heteromeric TRPC Channels in Mammalian Brain
CARSTEN STRUBING, PHD
Research Fellow, Department of Cardiovascular Research, Children's Hospital and Department of Neurobiology, Harvard Medical School, Boston, MA

November 7  Nicotinic Acetylcholine Receptors
ANTHONY AUERBACH, PHD
Professor, Department of Physiology & Biophysics, SUNY Buffalo - School of Medicine & Biomedical Sciences, Buffalo, NY

November 21  Color, Size and All the Rest: How Do They All Fit in the Visual Cortex?
EHUD KAPLAN, PHD
Jules & Doris Stein Research-to-Prevent-Blindness Professor, Departments of Ophthalmology, Physiology & Biophysics, Mount Sinai School of Medicine, New York, NY

December 5  GABA-A Receptors: Relating Structure to Function
JANET L. FISHER, PHD
Assistant Professor, Department of Pharmacology & Physiology, University of South Carolina School of Medicine, Columbia, SC

December 19  Hippocampus: Drug Effects and Behavioral Coding
SAMUEL A. DEADWYLER, PHD
Professor & Vice Chairman, Department of Physiology & Pharmacology, Wake Forest University School of Medicine, Winston-Salem, NC

January 16  Regulation of Synaptic Inhibition via the Alpha Subunit of the GABA-A Receptor
NEIL L. HARRISON, PHD
Professor of Neuroscience, Laboratory of Molecular Pharmacology, Weill Medical College of Cornell University, New York, NY

February 13  Regulation and Dynamics of Transmitter Release at a Central Synapse
DONALD S. FABER, PHD
Professor & Chairman, Department of Neuroscience, Albert Einstein College of Medicine, Bronx, NY

February 27  Brain Computer Interfaces
MIGUEL A.L. NICOLELIS, MD, PHD
Associate Professor, Department of Neurobiology, Duke University Medical Center, Durham, NC

March 13  GABA and Glutamate Receptor Subtype in Developing Cerebellar Synapses
STEFANO VICINI, PHD
Professor, Department of Physiology & Biophysics, Georgetown University Medical Center, Washington, DC

March 27  Modeling Rhythms in the Brain
JOHN RINZEL, PHD
Professor of Neural Science and Mathematics, Center for Neural Science, New York University, New York, NY

April 10  Algorithms for Neural Population Coding
EMERY N. BROWN, MD, PHD
Director, Neuroscience Statistics Research Laboratory, Department of Anesthesia and Critical Care, Massachusetts General Hospital, Boston, MA

April 24  Desensitization Mechanism of the GABA-A Receptor
DAVID S. WEISS, PHD
Professor, Department of Neurobiology, University of Alabama at Birmingham, Birmingham, AL

May 8  Extrasynaptic GABA-A Receptors: Thinking Outside the Box
BEVERLEY A. ORSER, MD, PHD
Professor, Department of Physiology, University of Toronto, Ontario, Canada

May 22  GABARAP Promotes Clustering of GABA-A Receptors with Altered Channel Properties and Pharmacology
RICHARD W. OLSEN, PHD
Professor, Department of Molecular and Medical Pharmacology, UCLA School of Medicine, Los Angeles, CA

June 5  Mechanisms of Learning in Limbic System Neurons
THOMAS H. BROWN, PHD
Professor of Psychology & Physiology, Department of Psychology, Yale University, New Haven, CT