



Neuroscience Center of Excellence

Calendar of Events 1996

Distinguished Lecturer Series

- January 25 Windsor Court Hotel**
- Josef Kriegelstein, MD, PhD, Director, Institut für Pharmakologie und Toxikologie, Philipps-Universität Marburg/Lahn, Marburg, Germany
Mechanisms of Neuroprotective Drug Actions
- Kyuya Kogure, MD, DMSci, Director, Foundation for Brain and Nerve Diseases, Institute of Neuropathology, Saitama-Ken, Japan; Professor, Department of Pharmacology, Tokyo Medical College, Tokyo, Japan
Post-Ischemic Inflammation of the Brain and Prospective Therapy of Cerebral Infarction
- Arne Schousboe, MD, DMSci, Professor, Department of Biological Sciences, Royal Danish School of Pharmacy, Copenhagen, Denmark
Excitotoxicity in Neuronal Cultures: Role of Glutamate Receptor Subtypes and Intracellular Ca²⁺ Homeostasis
- Claude G. Wasterlain, MD, Chief, Neurology Service, Professor of Neurology, Reed Neurological Research Center, UCLA School of Medicine, Los Angeles, California
Sommer Revisited: Hippocampal Lesions and Epilepsy
- Bo K. Siesjö, MD, PhD, Chancellor's Award Lecturer in Neuroscience, Professor of Neurobiology, Laboratory for Brain Research, Experimental Research Center, University of Lund, Sweden
Focal Ischemia: Pathophysiology and Therapeutic Windows
- Fred Plum, MD, Dean's Award Lecturer in Neuroscience, Chairman, Department of Neurology, Cornell University Medical College, New York, New York
Discussion Leader for Symposium: Fundamental Issues in Stroke and Epilepsy: Excitotoxicity, Cell Signaling, and Neuroprotection
- February 3 University of New Orleans**
- Eric R. Kandel, MD, Dean's Award Lecturer in Neuroscience, Center for Neurobiology & Behavior, College of Physicians & Surgeons of Columbia University, New York, New York
Genes, Synapse and Long Term Memory
- September 11 LSU Medical Education Building, Room to be announced**
- Gary Banker, PhD, Professor of Neuroscience, University of Virginia School of Medicine, Charlottesville, Virginia
The Development of Neuronal Polarity
- Date TBA LSU Medical Education Building, Room to be announced**
- Stanley Cohen, PhD, 1986 Nobel Laureate in Medicine, Distinguished Professor, Department of Biochemistry, Vanderbilt University School of Medicine, Nashville, Tennessee
EGF Signaling in the Intact Mouse

Symposium: Fundamental Issues in Stroke and Epilepsy: Excitotoxicity, Cell Signaling, and Neuroprotection

January 25, 1996
Windsor Court Hotel, New Orleans

Faculty: Josef Kriegelstein, MD, PhD, Kyuya Kogure, MD, DMSci., Arne Schousboe, MD, DMSci., Claude G. Wasterlain, MD, Nicolas G. Bazan, MD, PhD, Bo K. Siesjö, MD, PhD.
(See Distinguished Lecturer Series above for list of presentation topics.)

In addition, Nicolas G. Bazan (Symposium Organizer), LSUMC Neuroscience Center of Excellence will present a lecture on: *Excitable Membrane-Derived Messengers and Brain Damage in Stroke and Epilepsy: New Clues in Neuronal Plasticity and Neuroprotection*

Round Table: Clinical Implications

Chairmen: Nicolas G. Bazan, MD, PhD and Austin Sumner, MD

Discussion Leader: Fred Plum, MD, (see Distinguished Lecturer Series above).

The symposium will focus on fundamental issues of cerebrovascular disease, head injury and epilepsy. Many of these issues are also highly relevant to neurodegenerative diseases such as Alzheimer's and Parkinson's. The speakers will discuss the significance of intercellular signals as well as intracellular pathways of signal transduction in the pursuit of an understanding of critical pathophysiological events and of novel therapeutic targets.

Topics to be discussed include the involvement in neuronal damage and cell death of presynaptic release, receptors and transporters of neurotransmitters (excitatory and inhibitory), calcium homeostasis, modulators of ion channels and transporters, reactive oxygen species and other free radicals, transcription factors as signal transducers, gene expression, neurotrophins (neurotrophic factors) and their receptors, perikarya and nerve terminal mitochondria.

Alterations in cell signal transduction leading to abnormal forms of neuronal plasticity may play an important role in epileptogenesis. Various events of the pathophysiology of stroke and epilepsy offer novel targets for neuroprotection. The symposium will conclude with a round table discussion during which the clinical significance of the latest cellular and molecular discoveries relevant to stroke and epilepsy will be highlighted.

The Eighth Annual LSU Neuroscience Center Retreat

Saturday, February 3, 1996, 8:00 a.m. to 2:00 p.m.
University of New Orleans

Keynote Lecturer: Eric R. Kandel, MD

Dean's Award Lecturer in Neuroscience, Center for Neurobiology & Behavior
College of Physicians & Surgeons of Columbia University, New York, New York

Topic: *Genes, Synapse and Long Term Memory*

Posters (8' wide by 4' high) of current research may include data recently presented or which is to be presented at a future meeting. Informal layouts of ongoing projects are also encouraged. Please send abstracts by January 19, 1996 to the LSU Neuroscience Center.

Eight travel awards to be used to present a paper at a scientific meeting will be given for the best posters presented by postdoctoral fellows, residents, or students.

For commercial exhibits, please contact Dr. Ken Kratz at (504)568-4011/4015 or Dr. James May at (504) 286-6770.

LSU Neuroscience Center of Excellence, 2020 Gravier Street, Suite B, New Orleans, LA 70112

For Information: Phone (504) 568-6700 ext. 320, 321 • FAX (504) 568-5801
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Neuroscience Seminars

Medical Education Building, Seminar Room 5, 4:00 p.m.

- January 24** Cindy Linn, PhD, Department of Anatomy, LSU Medical Center, New Orleans, Louisiana
Regulation of Voltage-gated Ca²⁺ Channels in Teleost Retina
- February 14** Brian Davis, PhD, Department of Anatomy and Neurobiology, University of Kentucky, Chandler Medical Center, Lexington, Kentucky
Overexpression of Neurotrophins in Transgenic Mice: Surprising Effects on Sensory and Sympathetic Nervous Systems
- March 13** Jeff Magee, PhD, Division of Neuroscience, Baylor College of Medicine, Houston, Texas
Some Functions for Dendritic Voltage-gated Ion Channels
- April 10** Jean Jacob-LaBarre, PhD, Department of Ophthalmology, Lions Eye Center, LSU Medical Center, New Orleans, Louisiana
Novel Nerve Regeneration Guides
- May 15** Michael Friedlander, PhD, Neurobiology Research Center, University of Alabama, Birmingham, Alabama
Dynamic Modulation of Synaptic Transmission in Cerebral Cortex
- June 12** Geoff Schofield, PhD, Department of Physiology, Tulane Medical Center, New Orleans, Louisiana
Aspects of Potassium Channel Function in Genetic Hypertension
- September 18** John Maunsell, PhD, Department of Neuroscience, Baylor College of Medicine, Houston, Texas
Representations of Visual Targets in Monkey Cerebral Cortex
- October 16** Erin Schuman, PhD, Division of Biology, California Institute of Technology, Pasadena, California
Synaptic Signaling and Plasticity in the Hippocampus
- November 13** Peter Winsauer, PhD, Department of Pharmacology, LSU Medical Center, New Orleans, Louisiana
Central Serotonergic Mechanisms in Learning and Memory

Seminar Series Coordinators: Dr. Kurt Varner (504) 568-4740 and Dr. Daniel Carr (504) 568-4412.

Symposium: Sensory Systems

March 1, 1996

Medical Education Building, Seminar Room 4, 8:00 a.m. - 5:00 p.m.

Organized by: Drs. C. Linn & W. Guido, Co-Sponsored by the Department of Anatomy, LSU Medical Center, LSU Neuroscience Center of Excellence, and the Greater New Orleans Chapter of the Society for Neuroscience

Keynote Speaker: Dr. B.E. Stein, Department of Neurobiology and Anatomy, Bowman Gray Medical School, Wake Forest University, Winston-Salem, North Carolina.

Topic: *Neural Mechanisms for Synthesizing Information About Different Senses*

Invited Speakers: Drs. R. Bobbin (LSUMC), D. Webster (LSUMC), P. Guth (Tulane), C. Linn (LSUMC), W. Guido (LSUMC), T. Weyand (LSUMC), R. Erzurumlu (LSUMC), A. Vaccarino (UNO), T. Gilbertson (LSU-Baton Rouge), R. Bruch (LSU-Baton Rouge).

Symposium: New Targets in Inflammation: Inhibitors of COX-2 or Adhesion Molecules

April 15-16, 1996

Sheraton New Orleans Hotel, New Orleans, Louisiana

Conference Chairmen: Nicolas Bazan and Sir John Vane

Hosted by Louisiana State University Neuroscience Center of Excellence

Topics Include: Structure of cyclo-oxygenases [COX-1 and COX-2]; Induction of COX-2 in inflammation; Differential inhibition of COX-1 and COX-2 by NSAIDs; Development of selective COX-2 inhibitors; COX-2 expression in different organs including uterus, brain and synovial tissue; Toxicity of NSAIDs including renal side effects; Leukointegrins and ICAM-ligands; Cytokines and adhesion molecules in the inflammatory response.

Faculty Includes: Nicolas Bazan (LSUMC); Wolfgang Boltzen (Rheumaklinik Wiesbaden II); Michelle Browner (Roche Bioscience); Pedro Cuatrecasas (Parke-Davis); Leslie Crofford (Univ of Michigan); David Dewitt (Michigan State); Raymond DuBois (Vanderbilt Univ); Helmut Fenner (ETH, Zurich); Sergio Ferreira (U Fed Rio de Janeiro); G A Fitzgerald (Univ of Pennsylvania); Anthony Ford-Hutchinson (Merck Frosst Canada, Inc.); W M Gallatin (ICOS Corp.); Hershhal Jick (Boston Univ); Peter Lipsky (Univ of Texas); Patrick Loll (Univ of Pennsylvania); Scott Morham (Univ of North Carolina); John Oates (Vanderbilt Univ); Michel Pairet (Dr. Karl Thomae GmbH); Daniel Simmons (William Harvey Research Inst); John Vane (William Harvey Research Inst); and Peter Ward (Univ of Michigan).

Summer Undergraduate Neuroscience (SUN) Program and the High School Neuroscience Program

The LSU Neuroscience Center SUN Program is a unique opportunity for exceptionally well-qualified undergraduate and high school students from Louisiana to experience state-of-the-art neuroscience research in the laboratory working along with investigators and their research teams. During the eight week Program, students attend a formal lecture series highlighting the cellular and molecular aspects of the nervous system, and meet with the many distinguished neuroscientists that visit the campus. Excellent stipend support is provided to the selected undergraduate students. Nineteen-ninety-six will be the third year of the SUN Program. Undergraduate students should have completed the second year of college, be a Louisiana resident, or attend college in Louisiana. High school students should be from the New Orleans area, and will participate in an abbreviated form of the Program. Research experience is not necessary. Inquiries should be addressed to Dr. Roger W. Beuerman, Neuroscience SUN Program, LSU Eye Center Suite B, 2020 Gravier Street, New Orleans, LA 70112.

Interdisciplinary PhD Program in Neuroscience

Applications are now being accepted for the Interdisciplinary PhD Training Program in Neuroscience. The intensive training provided by this program reflects the breadth of faculty research programs -- including behavioral neuroscience and molecular neurobiology -- with concentrations ranging from genes, to cells, to human behavior. Stipend support is available on a competitive basis. Highly qualified individuals should send inquiries to: Nicolas G. Bazan, MD, PhD, or R. Ranney Mize, PhD, Co-Directors of the Interdisciplinary PhD Program, c/o LSU Neuroscience Center of Excellence.