



Graduate Program in



Neuroscience and Cell Biology



Laboratory of Experimental
Neuropharmacology

[Graduate Program
in Tropical Disease](#)

**IBRO COURSE IN NEUROSCIENCE
FEDERAL UNIVERSITY OF PARÁ
BELEM, BRAZIL
February 17-25, 2016**



Organizers:

Local Organizers:

A.M. Herculano, PhD, Professor, Graduate Program in Neuroscience and Cell Biology, UFPA, Belem, Brazil.

G.S. Souza, Ph.D, Graduate Program in Tropical Disease, UFPA, Belem, Brazil.

P. N. Schneider, Ph.D, Graduate Program in Neuroscience and Cell Biology, UFPA, Belem, Brazil.

K.R. Oliveira, Ph.D, Graduate Program in Neuroscience and Cell Biology, UFPA, Belem, Brazil

International Organizer:

U. J. McMahan, Ph.D., Professor, Department of Biology, Texas A&M University, College Station, Texas, USA.

Lecturers:

Prof. Elaine Del Bel, Department of Morphology/Physiology/Pathology, University of Sao Paulo, Ribeirao Preto, Brazil,

Prof. Francisco F. De-Miguel, Institute for Cellular Physiology, UNAM, Mexico City, Mexico.

Prof. Emanuel Mora Macias, Department of Animal Biology, Faculty of Biology, Havana University, Havana, Cuba.

Prof. Jack McMahan, Department of Biology, Texas A&M University, College Station, Texas, USA.

Prof. Shlomo Rotshenker, Department of Anatomy/Cell Biology, Hebrew University Medical School, Jerusalem, Israel.

Topics will include:

- Principles of neural signaling
- Structure, function and formation of synapses.
- Channels and receptors
- Structural and functional organization of the visual system
- Sensory transduction
- Neural development, degeneration, regeneration, and pathogenesis
- Mechanisms of plasticity

Thirty-five lectures last for about 50 minutes each. Conferences are used for discussion of questions that arise from the lectures and consist of small groups that rotate day by day to different lecturers. Students will have the opportunity to present 10 min. talks on their own work if they wish. Tutorials on how to present the talks according to the format of international meetings are given at the end of each day. There will also be formal discussions about studentships and postdoctoral opportunities in Europe and North America. The course is open to graduate students in biomedical sciences, medical students, medical residents, junior faculty members and advanced undergraduate students. Interested students of mathematics, physics, engineering and computer science are also welcome to apply.