

Announcement
Alexander Hollaender Outreach Committee
Environmental Mutagenesis and Genomics Society

4 Fellowships available to attend the workshop:

Mitochondrial Biochemistry, Genetics, and Molecular Biology
July 9 – July 14, 2017
University of Puerto Rico Medical Sciences Campus
San Juan, Puerto Rico

Mitochondria have emerged as central components of physiological processes and the pathophysiology of diseases such as neurodegenerative disorders, cancer, and diabetes, among others. Thus, it is imperative that faculty members at universities keep up with the rapid accumulation of knowledge generated in this field of research. The goal of this workshop is to provide faculty members that have little or no experience in mitochondrial research but actively engage in courses which cover mitochondrial related topics with the most fundamental aspects of mitochondrial research. The workshop will introduce participants to a variety of techniques to study mitochondrial biochemistry, genetics, and molecular biology. The workshop will include lectures and hands-on laboratory exercises presented by local and national instructors. Some of the activities that will be presented are:

Lectures

Mitochondrial Genetics and Cell Biology
Mitochondrial DNA Repair
Mitochondria in Health and Disease

Laboratories

Determination of mtDNA abundance and mutation rates in yeast cells
Determination of mitochondrial membrane potential
Detection of mitochondrial generated reactive oxygen species
Extracellular flux analysis to determine key bioenergetics parameters

Course Directors

Carlos A. Torres Ramos, Ph.D.
Department of Physiology

Sylvette Ayala Peña, Ph.D.
Department of Pharmacology and Toxicology
University of Puerto Rico Medical Sciences Campus

Keynote Speaker

Bennett Van Houten, Ph.D.
Department of Pharmacological and Chemical Biology
University of Pittsburgh

Fellowship will cover: airfare, lodging, per diem, and workshop tuition (up to \$1,500 per participant)

Fellowship application procedure: Send to carlos.torres27@upr.edu a one page statement summarizing: (1) your academic preparation, (2) current position, (3) recently taught courses that include mitochondria related topics, (4) any experience in mitochondria research and (5) impact of the workshop in coursework.

Deadline: May 9, 2017. Selected applicants will be notified shortly afterwards. Selected applicants must make their own travel arrangements. Reimbursement will be done during the workshop.