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**What:** Course in writing and reviewing for scientific journals and poster presentation skills

**Where:** Disney World, Lake Buena Vista, Florida

**When:** Every January

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Call for Papers
Mitochondrial Function/Dysfunction in Health and Disease

Submission deadline: December 31, 2010

The American Journal of Physiology–Regulatory, Integrative and Comparative Physiology is soliciting submission of original manuscripts addressing the physiological, cellular, and molecular mechanisms by which mitochondrial function/dysfunction is determined and regulated.

This Call for Papers is in recognition of advances in our understanding of the diverse mechanisms by which mitochondria sense and respond to acute and chronic challenges and how such altered function integrates cellular and organ processes in both health and disease. Appropriate topics include regulation of mitochondrial biosynthesis, control of mitochondrial respiration, reactive oxygen species production/scavenging, mitochondrial signaling, substrate flux control/metabolic flexibility, morphology, fission/fusion, coupling/uncoupling, bioenergetics, permeability transition, mitophagy, and apoptosis. Papers dealing with normal as well as aberrant mitochondrial function in the context of physiological systems are encouraged, particularly those dealing with exercise, aging, and/or various cellular stressors (i.e., hypoxia, temperature, etc.) as well as specific disorders including obesity, diabetes, cancer, and diseases of the cardiovascular, kidney, respiratory, and central nervous systems. This call for manuscripts includes cellular/molecular, biochemical, integrative, comparative, and translational studies.

To be eligible for inclusion in this Call for Papers, manuscripts must be submitted by December 31, 2010.

Note to Authors: All manuscripts should be submitted online via eJournalPress, http://ajpregu.msubmit.net. During the online submission, under the “Keywords, Categories, & Special Section” tab, please choose “Mitochondrial Function/Dysfunction in Health and Disease” under “categories.”

In addition, include a note in your cover letter indicating you are responding to the “Mitochondrial Function/Dysfunction in Health and Disease” Call for Papers.

The manuscript will undergo normal peer review. If published, the article will be highlighted together in print with other papers appearing in response to this Call and will carry a banner indicating the paper was submitted in response to this Call for Papers. Submissions will be reviewed as they are received, and will be published online immediately upon acceptance.

If you have any questions or already have a manuscript in this area submitted to the American Journal of Physiology–Regulatory, Integrative and Comparative Physiology and would like to have it included in this series, please contact the Editor-in-Chief, Dr. Curt D. Sigmund (phone: 319-384-2857; e-mail: ajp-regulatory@uiowa.edu).
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- Drinking Volume
- Urine Production
- Body Mass
- Breaths / Minute
- Animal Activity
- Yoked and/or Paired Feeding
- Core Temp. & Heart Rate
- Running Wheel Activity
- Optional Environmental Enclosure

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Animal Activity Monitor

The Columbus Instruments Auto-Track Activity Meter presents the ultimate flexibility for measuring in home or special cages. Measures these parameters:

- Distance Traveled
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- Ambulatory Movement
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- Adjustable speed from 0-99.9 RPMin.
- Fully adjustable acceleration 0.1-20 RPMin/sec.
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APS Intersociety Meeting: Global Change and Global Science: Comparative Physiology in a Changing World

Date & Location: August 4-7, 2010
Westin Westminster Hotel, Westminster, Colorado
Abstracts Due: May 3, 2010  Advance Registration: June 25, 2010

Preliminary Program:
- The Role of Physiology in Organismal Responses to Global Warming
- Off the Beaten Path: Integrative Aspects of Muscle Function During Diverse Locomotor Behaviors
- Hydration, Desiccation, Regulation: The Comparative Physiology of Water Balance
- Physiological Effects of Ocean Acidification on Marine Animals in Times of Ocean Warming: Ecosystem Implications
- Evaluating the Effects of Global Climate Change to the Fauna of South American Biomes: Consequences to Diversity from a Physiological Perspective
- Environmental Adaptations of Cardio-Respiratory Systems
- Putting Comparative Physiology to Work in the Field: Stable Isotopes as Tracers of Ecological Processes
- Genomics and Proteomics Approaches to Understanding Environmental Stress
- The Life History Physiology Nexus
- Global Change and the Emerging Threat of Dead Zones: Can Individuals, Populations, Species, and Communities Respond to Increasingly Hypoxic Oceans?

For more info or to register, visit: www.the-aps.org/comparative

APS Conference: Inflammation, Immunity and Cardiovascular Disease

Date & Location: August 25-28, 2010
Westin Westminster Hotel, Westminster, Colorado
Abstracts Due: May 14, 2010  Advance Registration: July 23, 2010

Preliminary Program:
Basic Aspects of Immunology
- Basic Aspects of T Cell Function
- How to Measure and Study Immune Responses
- Events in the Lifespan of a T Cell
- Cytokines and the Use of Cytokine Directed Therapy
- Roles of NK and NKT Cells During Early Lesion Formation

Cell Interactions and Antigen Presentation
- Antigen Presentation and Dendritic Cell Function
- The Dendritic Cell and Transition from Innate to Adaptive Immunity

Inflammation and the Metabolic Syndrome
- Obesity and Inflammation
- Toll-Like Receptors and Metabolic Syndrome

Inflammation, the Vascular Wall and Lesion Formation
- Immunobiology of the Endothelium
- The Adaptive Immune Response and Atherosclerosis
- Innate Immunity and Lesion Formation
- Immune Cell Recruitment and Atherosclerosis

Inflammation, Immunity, Hypertension and Renal Disease
- Innate and Adaptive Immune Mechanisms in Salt-Sensitive Hypertension
- T Regulatory Cells, Renal Discourse and Hypertension
- IL-17 and Hypertension
- Immune Cells in Sodium-Sensitive Hypertension
- Renal Inflammation and Renal Injury

For more info or to register, visit: www.the-aps.org/inflammation