For instructions on how to prepare your manuscript to conform to APS style, please see http://www.the-aps.org/publications/i4a/index.htm

Manuscripts to AJP-Regulatory, Integrative and Comparative Physiology are submitted online through www.apscentral.org.

Mandatory Submission Forms and Fee Forms customized to your manuscript become available on completion of the submission process. For extra copies of blank forms, see http://www.the-aps.org/publications/journals/index.htm

If you use a blank form, please write the manuscript number, title, and author’s name CLEARLY on the form.
The Columbus Instruments Oxymax - CLAMS (Comprehensive Lab Animal Monitoring System) is a versatile device for monitoring metabolic performance of mice and rats. Customers choose from a selection of sub-systems that allow for the measurement of these possible parameters:

- VO2/VCO2 & RER
- Food Intake
- 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

For more information: [www.colinst.com](http://www.colinst.com)

### 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
- Path of Movement
- Ambulatory Movement
- Stereotypic Movement
- Rearing (Vertical)
- Rotations
- Open Field
- Hole Poke
- Light / Dark
- Time-In-Square

### Rota-Rod: Rotamex-5

The Rotamex-5 measures coordination in up to four mice or rats by recording the latency to fall from a spinning rod. Key features include:

- Reports latency time to fall for each subject
- Reports rod speed in RPMin. or in cm/sec.
- Adjustable speed from 0-99.9 RPMin.
- Fully adjustable acceleration 0.1-20 RPMin/sec.
- Fall detection by photocells above the rod
- Detection of passive rotation (looping) in mice

### Animal Treadmill

The Exer 3/6 Treadmill provides 6 mouse lanes or 3 rat lanes for general purpose exercise. Speed is adjustable from 2-102 m/min and acceleration is programmable in 0.1 m/min steps per second. Available with or without electric stimulus or optional stimulus detection system.

### Non-Invasive Blood Pressure: Columbus NIBP

The Columbus Instruments NIBP system measures blood pressure in mice and rats by way of specially designed tail cuffs. The system can support measurements in up to 8 animals, key features include:

- Systolic, Diastolic, and Mean Blood Pressure
- Warming Compartment heats the tail only for stronger Heart Rate signal with lower stress
- Thermostatic and adjustable Warming control
- Supports Manual and Automatic measurements
- Each measurement takes only 16 seconds
- Measurement quality is graded and reported
Call for Papers
Integrative and Translational Physiology: Inflammation and Immunity in Organ System Physiology

All papers accepted for publication will be published immediately online, and will appear in the next available print issue. Each print issue will have a special section dedicated to the Call for Papers.

Submission deadline: April 30, 2012

The American Journal of Physiology—Regulatory, Integrative and Comparative Physiology is soliciting submission of original manuscripts and review articles, addressing novel roles for inflammation and immunity in organ system physiology and pathophysiology.

This Call for Papers is in recognition of advances in our understanding of the participation of innate and adaptive immune responses in diverse conditions, such as obesity, insulin resistance, atherosclerosis, hypertension, neoplasia, lung disease, and bone biology. Appropriate topics include the role of phagocytes, T cells, and B cells, as well as the effect of cytokines, pattern recognition receptors, and inflammatory signaling molecules in modulation of normal and abnormal organ function. Papers addressing how inflammation and immunity are triggered to perturb organ function are particularly encouraged. These could include, but are not limited to, those dealing with exercise, aging, sex differences, and/or various cellular stressors (i.e., hypoxia, temperature, etc.) and specific disorders, including obesity, diabetes, cancer, and diseases of the cardiovascular, kidney, respiratory, and central nervous systems. This Call for Papers includes cellular/molecular, biochemical, integrative, comparative, and translational studies.

The Organizing Editor is David M. Pollock. David G. Harrison from Vanderbilt University will be the Guest Editor for this Call for Papers. Dr. Harrison is an internationally recognized leader in research exploring the role of the immune system in cardiovascular physiology.

Organizing Editor:
David M. Pollock: dpollock@georgiahealth.edu

Guest Editor:
David G. Harrison: david.g.harrison@vanderbilt.edu

Note to Authors: All manuscripts should be submitted online via eJournal Press, http://ajpregu.msubmit.net. During the online submission, under the “Keywords, Categories, Special Section” tab, please choose “Inflammation, Immunity, and Organ System Physiology” under “Category.” In addition, include a note in your cover letter indicating you are responding to the “Inflammation, Immunity, and Organ System Physiology” Call for Papers.

The manuscript will undergo normal peer review. If accepted, the article will be highlighted simultaneously with other papers appearing in response to this announcement, if possible. Submissions will be reviewed as they are received, and will be published online immediately upon acceptance.

Manuscripts can be submitted anytime, but to be eligible for inclusion in this Call for Papers, manuscripts must be submitted by April 30, 2012. 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).

An editorial introducing the topic is available at:
Call for Papers
Integrative and Translational Physiology: Integrative Aspects of Energy Homeostasis and Metabolic Diseases

All papers accepted for publication will be published immediately online, and will appear in the next available print issue. Each print issue will have a special section dedicated to the Call for Papers.

Submission deadline: April 30, 2012

The American Journal of Physiology—Regulatory, Integrative and Comparative Physiology is soliciting original manuscripts and review articles addressing the physiological and metabolic factors involved in the three major components of energy homeostasis: intake, expenditure, and storage. Specific emphasis will be on those integrative factors that are either affected by, or contribute to, the development and maintenance of metabolic diseases, such as obesity and diabetes.

The organizing editor is Dr. Barry Levin. Each component of energy metabolism will have two or three guest editors who will help to identify potential authors of reviews in these areas, as well as encourage researchers within their areas to submit original publications. The guest editors are listed below. Appropriate topics in the energy intake area include central and peripheral factors involved in regulating feeding, including, but not limited to, gastric bypass and pharmacotherapy. Energy expenditure topics may include, but are not limited to, surgically, pharmacologically, exercise-, and diet-induced changes in expenditure and sources of expenditure. Energy storage topics can involve any factor having to do with adipocyte biology and regulation but may also include ectopic storage in muscle and liver and other organs. These topics should relate in some way to metabolic diseases. Finally, this Call for Papers is especially meant to address the integration of different levels of scientific analysis, from molecular to cellular, systemic to behavioral, as well as the connections among homeostatic and reward-based, peripheral, and central factors involved in energy homeostasis regulation.

Note to Authors: All manuscripts should be submitted online via eJournal Press, http://ajpregu.msubmit.net. During the online submission, under the “Keywords, Categories, Special Section” tab, please choose “Energy Homeostasis and Metabolic Diseases” under “Category.” Indicate in the cover letter that the submitted manuscript is in response to the “Integrative Aspects of Energy Homeostasis and Metabolic Diseases” Call for Papers and also indicate the specific area of energy homeostasis at which it is aimed. Because some papers will involve more than one area, authors should provide a priority list of the areas in which they would like the paper to be reviewed.

Manuscripts will undergo normal peer review. If accepted, the article will be highlighted simultaneously with other papers appearing in response to this announcement, if possible. Submissions will be reviewed as they are received and will be published online immediately upon acceptance. While most reviews will be solicited by the guest editors, we will also accept suggestions from authors who wish to write a relevant review and submit this request by e-mail to an appropriate guest editor.

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Guest Editors: Energy Intake
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Manuscripts can be submitted anytime, but to be eligible for inclusion in this Call for Papers, manuscripts must be submitted by April 30, 2012. 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: aip-regulatory@uiowa.edu).