CALL FOR NOMINATIONS

for the Editorship of

Physiological Reviews

Nominations are invited for the Editorship of Physiological Reviews to succeed S. L. Hamilton, who will complete her term as Editor on December 31, 2008. The Publications Committee plans to interview candidates in the Spring of 2008.

Applications should be received before February 15, 2008.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the Publications Committee:

Kim E. Barrett, Ph.D.
APS
9650 Rockville Pike
Bethesda, MD 20814-3991
Call for Papers

American Journal of Physiology-Regulatory, Integrative and Comparative Physiology

Physiological and Molecular Mechanisms Implicated in the Neural Control of Circulation

The American Journal of Physiology-Regulatory, Integrative and Comparative Physiology is soliciting submission of original manuscripts addressing the physiological and molecular mechanisms implicated in neural control of circulation. This call for papers is in recognition of advances in understanding of neural mechanisms involved in short- and long-term control of blood pressure and cardiovascular function. Appropriate topics include the role of central and systemic autonomic mechanisms, brain renin-angiotensin-aldosterone systems, neuroendocrine mediators, and actions of reactive oxygen species and nitric oxide in the central nervous system in blood pressure control. In addition, papers addressing the role of neural mechanisms relating risk (obesity, stress) and protective factors (sexual dimorphism, exercise) to cardiovascular disorders are also highly relevant. This call for manuscripts is understood to include cellular/molecular, integrative, and translational studies.

Responding authors should indicate in their cover letter that the submitted manuscript is in response to this 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. Papers will be published online immediately upon acceptance.

The submission deadline for this topic is February 1, 2008. 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).
Call for Papers

American Journal of Physiology-Regulatory, Integrative and Comparative Physiology

Neural Integration of Peripheral Signals Implicated in the Control of Energy Homeostasis and Metabolism

The American Journal of Physiology-Regulatory, Integrative and Comparative Physiology is soliciting submission of original manuscripts addressing the physiological and molecular mechanisms implicated in neural control of energy homeostasis and metabolism. This call for papers is in recognition of advances in our understanding of the way in which neural, hormonal, and metabolic signals from the periphery are sensed and integrated by specialized collections of neurons within the brain as a means of monitoring and controlling energy homeostasis and metabolic processes. Appropriate topics include the interactions between central regulatory systems and the production, sensing, and signaling of hormones such as leptin, insulin, and ghrelin, peptides such as CCK, PYY, and amylin, which signal through peripheral neural pathways such as the vagus, and the basic mechanisms that allow specialized peripheral and central sensors to respond to metabolic signals such as glucose, fatty acids, and ketone bodies. Papers dealing with aberrant function of these systems in obesity, diabetes, and other metabolic or neuroendocrine disorders are particularly encouraged, as are those dealing with the impact of sexual dimorphism, stress, exercise, age, and other physiological variables on these control mechanisms. This call for manuscripts includes cellular/molecular, biochemical, integrative, comparative, and translational studies.

Responding authors should indicate in their cover letter that the submitted manuscript is in response to this 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. Papers will be published online immediately upon acceptance.

The submission deadline for this topic is June 30, 2008. 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).
American Journal of Physiology-
Regulatory, Integrative and Comparative Physiology

Scope of Journal
The American Journal of Physiology-
Regulatory, Integrative and Comparative Physiology publishes original investigations that illuminate normal or abnormal regulation and integration of physiological mechanisms at all levels of biological organization, ranging from molecules to humans, including clinical investigations. Major areas of emphasis include:

- appetite, obesity, digestion, and metabolism
- genetically modified animals and model organisms
- inflammation and cytokines
- renal hemodynamics and cardiorenal integration
- neurohumoral control of cardiovascular function
- developmental physiology and pregnancy
- environmental, exercise and respiratory physiology
- comparative and evolutionary physiology
- sleep and temperature regulation
- water and electrolyte homeostasis

Authors are required to submit papers online at www.apscentral.org.

A Few HOT Articles

“Drink at least eight glasses of water a day.” Really? Is there scientific evidence for “8 × 8”?
Heinz Valtin

Biochemistry of exercise-induced metabolic acidosis
Robert A. Robergs, Farzehan Ghiasvand, Daryl Parker

Maternal and fetal adaptations during pregnancy: lessons in regulatory and integrative physiology
Joey P. Granger

An integrated view of oxidative stress in aging: basic mechanisms, functional effects, and pathological considerations
Kevin C. Kregel, Hannah J. Zhang

Photic phase response curve in Octodon degus: assessment as a function of activity phase preference
Martien J. H. Kas, Dale M. Edgar

Reader & Author Benefits

- Fully searchable text, including PubMed
- Rich color and sharp resolution of figures
- Editor’s Home Page at www.the-aps.org/publications/ajpregu
- FREE access to the extensive collection of back issues available online 12 months after publication
- FREE e-mail notification of new content as it becomes available
- Manuscripts online within days of acceptance
- Perpetual/Electronic Archiving of the LOCKSS and CLOCKSS systems preserves the electronic content of all APS journals.

AuthorChoice
www.authorchoice.org

Authors can choose to pay $2,000 on top of regular author fees and have their article made free immediately.

To start your SUBSCRIPTION, e-mail: subscriptions@the-aps.org
To submit your MANUSCRIPT go to: www.apscentral.org
Track the Topics, Authors, and Articles important to you with...

What is CiteTrack?
CiteTrack is a free service that will alert you by e-mail whenever new articles matching a search criteria of your choice are published in an American Physiological Society (APS) journal or when a new article published in any of the participating journals in this program (which includes over 1,020 titles) cites an APS journal article of your interest. You can track the following:

- **Topics**...tell CiteTrack which words or subjects to watch for in new content.
- **Authors**...be alerted whenever key authors you are following publish a new paper.
- **Articles**...know whenever a paper of interest to you is referenced by another paper or letter.

Who Can Use CiteTrack Services?
CiteTrack services are provided free to individual subscribers of each APS print or online journal. If you are not a subscriber but you are interested in subscribing to this free service (or changing your current subscription), then all you need to do is provide us with your e-mail address. Once set up, CiteTrack will let you access for free the abstract of any article. If you want to see the full text of articles, you or your library will need a an online subscription to that particular journal.

Sign up for CiteTrack Today...
Visit the individual APS journal web sites (listed below), click on <Subscriptions>, and select <CiteTrack>.

- **E-mail alerts** include citations and URLs for articles that match your criteria in each journal you are tracking.

### APS Print and *Online Journals*
- American Journal of Physiology (AJP consolidated) . . . . . . . ajpcon.org
- AJP-Cell Physiology . . . . . . . . . . . . . . . . . . . . ajpcell.org
- AJP-Endocrinology and Metabolism . . . . . . . . . ajpendo.org
- AJP-Gastrointestinal and Liver Physiology . . . . . ajpgi.org
- AJP-Lung Cellular and Molecular Physiology . . . ajplung.org
- AJP-Heart and Circulatory Physiology . . . . . . ajpheart.org
- AJP-Regulatory, Integrative and Comparative Physiology . ajpregu.org
- AJP-Renal Physiology . . . . . . . . . . . . . . . . . ajprenal.org
- Journal of Applied Physiology . . . . . . . . . . . . . . . . . . jap.org
- Journal of Neurophysiology . . . . . . . . . . . . . . . . . . . . jn.org
- Physiological Genomics . . . . . . . . . . . . . . . . . . . . . . . . physiolgenomics.org
- Physiological Reviews . . . . . . . . . . . . . . . . . . . . prrv.org
- Physiology . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . physiologynline.org
- Advances in Physiology Education . . . . . . . . . . . . . . . . . . . advan.org

* Online journals are published by APS with the assistance of Stanford University Library’s HighWire Press.

To Subscribe to the APS Print and Online Journal Collection, Contact:
The American Physiological Society, Subscription Department
9650 Rockville Pike, Bethesda, MD 20814-3991 (USA)
Tel: 301-634-7180, Fax: 301-634-7418, E-mail: subscriptions@the-aps.org, Web: www.the-aps.org

9.10.07
The American Physiological Society

MEMBER BENEFITS

Your Professional and Career Development

APS embraces a wide variety of disciplines devoted to human and animal health and function—including systems biology, genomics, translational research and all other life sciences.

Meet like-minded colleagues through the following distinctive groups:

• Serve on APS sections—and—APS committees
• Serve on special interest groups
• Organize an APS conference
• Serve on FASEB boards and committees
• Participate in APS education programs
• Participate in APS honors and awards programs

Your Access to the Scientific Community

• Discount registration rates for Experimental Biology
• Discount registration rates for APS Conferences
• Specialized listservs

Your Source for Information Services

• **Free online access** to current content and the legacy content of all 15 APS research journals (this legacy content is an online package of over 100 years of historical scientific research, and is normally $2,000 for nonmembers)
• **Free essential color figures** to APS members (Regular and Student) who are first or last authors of articles published in any APS journal
• **Free print subscriptions** to 3 of APS’s 15 research journals (Physiology, Advances in Physiology Education, and The Physiologist)—and over 50% discount on the other 12 APS print research journals
• 20% discount on subscription to Annual Reviews
• Up to 75% discount on APS scholarly books
• Over 30% discount on subscription to the AAAS Signal Transduction Knowledge Environment

Become a member today...apply online at www.the-aps.org

or Call: 301.634.7171, Fax: 301.634.7241, Email: Members@the-aps.org
Abbreviations

Listed are abbreviations and their definitions. These may be used without definition in the APS Journals. See Information for Authors (www.the-aps.org/publications/journals/pub_quick.htm) for other abbreviations, symbols, and terminology.