

## 2012 SUBSCRIPTION RATES

### Institution

For institutional rates, please visit:  
[the-aps.org/publications/subs](http://the-aps.org/publications/subs)

Non-Member	Domestic	Can/Mex	Other
Online Only	\$685	\$685	\$685
Member			
Online Only	Free	Free	Free

## ORDER INFORMATION

Order Form and More Information  
can be found at: [www.physiology.org](http://www.physiology.org)

### Frequency:

Published online, twice monthly

Printed monthly in the consolidated version of *AJP*

eISSN: 1522-1539

## CONTACT

### Customer Service:

The American Physiological Society  
9650 Rockville Pike  
Bethesda, Maryland 20814-3991 (USA)  
Web: [www.the-aps.org](http://www.the-aps.org)  
E-mail: [subscriptions@the-aps.org](mailto:subscriptions@the-aps.org)  
Call: 301-634-7180, Fax: 301-634-7418

### In Europe, contact:

David Charles, eLicensing  
92 avenue du General de Gaulle, 78600  
Maisons-Laffitte, France  
E-mail: [dc.licensing@orange.fr](mailto:dc.licensing@orange.fr)  
Phone: +011 33 1 39 12 29 29

### In Brazil, contact:

Jonathan Contes, PCG Brazil  
Edificio Esplanada Park  
Rua Jerônimo da Veiga, 164, Conj. 16C,  
São Paulo, SP 04536-000, Brazil  
E-mail: [jcontes@pcgplus.com](mailto:jcontes@pcgplus.com)  
Phone: +55 11 2337 0310

### In China, contact:

Lily Huang, Charlesworth China  
12th Floor, Xian Dai Bai Li Dasha  
(Beijing Modern Palace Building)  
No. 20  
Daluyuan Dongsanhuan Nanlu Chaoyang District  
Beijing 100022, China  
E-mail: [sales@charlesworth.com.cn](mailto:sales@charlesworth.com.cn)  
Phone: +86 10 6779 1601 ext 101

Submit your manuscript today!


<http://ajpheart.msubmit.net>

American Journal of Physiology

## HEART AND CIRCULATORY PHYSIOLOGY



[ajpheart.org](http://ajpheart.org)

 Listen to our Podcasts:  
[ajpheart.podbean.com](http://ajpheart.podbean.com)

 Find us on Facebook:  
American Journal of Physiology-Heart and Circulatory Physiology

 Follow us on Twitter:  
AJPHeartCirc



The American Physiological Society  
9650 Rockville Pike  
Bethesda, MD 20814

Call: 301-634-7180 Fax: 301-634-7418

Web: [www.physiology.org](http://www.physiology.org)  
E-mail: [subscriptions@the-aps.org](mailto:subscriptions@the-aps.org)



**aps**

A journal of the  
American  
Physiological  
Society

## Editorship



### Editor-in-Chief: William Stanley, PhD

William Stanley is Professor of Medicine and Physiology at the University of Maryland School of Medicine in Baltimore. He attended undergraduate and graduate school at the University of California, Berkeley. He received his PhD in exercise physiology under the mentorship of George Brooks in 1986 and performed studies on lactate kinetic in human skeletal and cardiac muscle.

**Editor's Home Page:** [www.the-aps.org/publications/ajpheart](http://www.the-aps.org/publications/ajpheart)  
**Editor's E-mail:** [wstanley@medicine.umaryland.edu](mailto:wstanley@medicine.umaryland.edu)

### Senior Associate Editor

**David Kass**, Johns Hopkins Univ Medical Institutions

### Associate Editors

**Ivor Benjamin**, Center for Cardiovascular Translational Biomedicine

**Mordecai Blaustein**, Univ of Maryland School of Medicine

**Meredith Bond**, Univ of Maryland School of Medicine

**Christine Des Rosiers**, Montreal Heart Institute

**Igor Efimov**, Washington Univ

**Nancy Kanagy**, Univ of New Mexico

**Masafumi Kitakaze**, National Cardiovascular Center

**Ronglih Liao**, Harvard Medical School

**Gary Lopaschuk**, Univ of Alberta

**Fabio Recchia**, New York Medical College

**Junichi Sadoshima**, Univ of Medicine and Dentistry of New Jersey

**Ajay Shah**, King's College London School of Medicine

**W. Gil Wier**, Univ of Maryland School of Medicine

**Leon de Windt**, Cardiovascular Research Institute Maastricht

**Irving Zucker**, Univ of Nebraska Medical Center

## Editor's Selected Articles

- **Hemin causes mitochondrial dysfunction in endothelial cells through promoting lipid peroxidation: the protective role of autophagy**  
Ashlee N. Higdon, Gloria A. Benavides, Balu K. Chacko, Xiaosen Ouyang, Michelle S. Johnson, Aimee Landar, Jianhua Zhang, and Victor M. Darley-Usmar  
Am J Physiol Heart Circ Physiol 302:H1394-H1409, 2012.  
First published 13 January 2012; doi:10.1152/ajpheart.00584.2011
- **Sympathetic nerve stimulation induces local endothelial Ca<sup>2+</sup> signals to oppose vasoconstriction of mouse mesenteric arteries**  
Lydia W. M. Nausch, Adrian D. Bonev, Thomas J. Heppner, Yvonne Tallini, Michael I. Kotlikoff, and Mark T. Nelson  
Am J Physiol Heart Circ Physiol 302:H594-H602, 2012.  
First published 2 December 2011; doi:10.1152/ajpheart.00773.2011
- **In pursuit of scientific excellence – sex matters**  
Virginia M. Miller  
Articles in PresS. Am J Physiol Heart Circ Physiol (February 10, 2012).  
doi:10.1152/ajpheart.00073.2012

## Scope of Journal

The *American Journal of Physiology–Heart and Circulatory Physiology* publishes original investigations on the physiology of the heart, blood vessels, and lymphatics, including experimental and theoretical studies of cardiovascular function at all levels of organization ranging from the intact animal to the cellular, subcellular, and molecular levels. It embraces new descriptions of these functions and of their control systems, as well as their bases in biochemistry, biophysics, genetics, and cell biology. Preference is given to research that provides significant new insights into the mechanisms that determine the performance of the normal and abnormal heart and circulation.

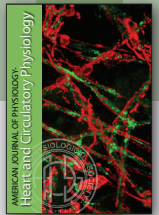
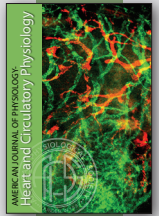
## Important Information for READERS, AUTHORS, and LIBRARIANS

- **Google search engine:** All online content searchable through the Google search engine.
- **Index Medicus, Biosis Previews, and ISI Web of Science** index APS journals. APS journal content indexed on **MEDLINE** and accessible through **PubMed**.
- **CiteTrack:** Receive e-mail alerts when new content matches criteria based on the topics, authors, and articles you want to track.
- **eTOCs:** Free e-mail notification of new tables of contents as they become available.
- **RSS Feeds:** A mechanism to subscribe to “headlines” from a web site.
- **Manuscripts published online** within days of acceptance.
- **LOCKSS and CLOCKSS:** Perpetual/Electronic Archiving of the LOCKSS and CLOCKSS systems preserves the electronic content of all APS journals.
- **CrossRef:** APS participates in CrossRef initiative, which links to over 5,600 journals worldwide.
- **Legacy Content** is an online package of over 100 years of historical scientific research from 13 APS research journals.
- **AuthorChoice** Authors can choose to pay a fee on top of regular author fees and have their articles publicly available upon publication.

## New Features

**EDITORIAL PODCAST SERIES:** *AJP-Heart and Circulatory Physiology* features an Editorial Podcast Series that highlights the latest cardiovascular research published in the journal. In each podcast, members of our new, international editorial team provide key insights and global perspectives. Subscribe today to be alerted to new content via your preferred digital media player at <http://ajpheart.podbean.com>.

**ARTICLE COLLECTIONS:** In January 2011 the Editors began subdividing the Table of Contents of each *AJP-Heart and Circulatory Physiology* journal issue, resulting in collections of content organized by research topic. New content is added on a monthly basis. Web: [ajpheart.physiology.org/cgi/collection/](http://ajpheart.physiology.org/cgi/collection/)



## Article Types

**RESEARCH ARTICLES:** Important new research results including the entire contents of a research project. Research articles include an abstract, an introduction, methods and results sections, a discussion, and relevant citations. Large data sets are welcome for inclusion in the online publication. Articles are peer-reviewed.

**PERSPECTIVES:** Short articles that disseminate new and original lines of thinking in physiology.

**INNOVATIVE METHODOLOGY:** Manuscripts submitted under this category should describe new methods for the recording, collection, and/or analysis of data relevant to understanding how the physiological system works.

**REVIEW ARTICLES:** Synthesis of state-of-the-art knowledge in a defined area highlighting new questions and pointing to future research directions. They encompass examination of biological processes, systems, models, and technologies for their study.

**LETTERS TO THE EDITOR:** Short letters reviewed by the appropriate Editor and subject to editing and possible abridgment. They do not include original, unpublished data. They also address matters of general interest to the readership.

**EDITORIALS:** Provide commentary by the Editor, Associate Editors, and other scientists and experts on issues related to the Journal's mission as well as of general interest to our readers.