American Journal of Physiology-
Heart and Circulatory Physiology

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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.

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

Editor’s Selected Articles
Differential vulnerability of skeletal muscle feed arteries to dysfunction in insulin resistance: impact of fiber type and daily activity
Shawn B. Bender, Sean C. Newcomer, and M. Harold Laughlin

Myostatin from the Heart - Local and Systemic Actions in Cardiac Failure and Muscle Wasting
Astrid Breitbart, Mannix Auger-Messier, Jeffery D. Molkentin, and Joerg Heineke

Regulation of in vivo cardiac contractility by phospholemman: role of Na+/Ca2+ exchange

Catechin treatment improves cerebrovascular flow-mediated dilation and learning abilities in atherosclerotic mice
Annick Drouin, Virginie Bolduc, Nathalie Thorin-Trescases, Elisabeth Belanger, Priscilla Fernandes, Edward Baraghas, Frederic Lesage, Marc-Antoine Gillis, Louis Villeneuve, Edith Hamel, Guylaine Ferland, and Eric Thorin

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Full text online at ajpheart.org

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To submit your MANUSCRIPT, go to: www.apscentral.org
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For the Editorship of

Physiology

Nominations are invited for the Editorship of Physiology to succeed W. Boron, who will complete his term as Editor on June 30, 2012. The Publications Committee plans to interview candidates in the Fall of 2011.

Applications should be received before August 15, 2011.

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

Hershel Raff, Ph.D.
American Physiological Society
9650 Rockville Pike
Bethesda, MD 20814-3991
2011 American Physiological Society Conferences

2011 APS Conference:
7th International Symposium on Aldosterone and the ENaC/Degenerin Family of Ion Channels: Molecular Mechanisms and Pathophysiology

DATE: September 18-22, 2011
PLACE: Asilomar Conference Grounds
Pacific Grove, California (USA)

Abstract: June 1, 2011
Registration: August 12, 2011
Housing: August 12, 2011

For more information or to register, visit:
www.the-aps.org/enac

Preliminary Program
- Structure and Function of ENaC and Related Transporters
- Structure and Function of Mineralocorticoid and Glucocorticoid Receptors
- Regulation of ENaC Biogenesis, Trafficking and Gating
- Aldosterone Synthesis and Regulation of Adrenal Cortex Function
- Non-Epithelial Actions of Aldosterone and Crosstalk with Other Systems
- ENaC Pathophysiology
- Aldosterone Pathophysiology

2011 APS Conference:
Physiology of Cardiovascular Disease: Gender Disparities

DATE: October 12-14, 2011
PLACE: University of Mississippi Medical Center
Jackson, Mississippi (USA)

Abstract: June 20, 2011
Advance Registration: September 12, 2011
Housing: September 15, 2011

For more information or to register, visit:
www.the-aps.org/gender2011

Preliminary Program
- Aging and Cardiovascular Disease
- Gender Disparities in Renal Disease
- Diabetes, Obesity and Cardiovascular Disease
- Neuro Mechanisms and Depression in Cardiovascular Disease
- Gender Disparities in Cardiology
- Cardiovascular Disease and Inflammation
- Gender Differences in Vascular Function
- Cardiovascular Disease and Fertility

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IN NEXT ISSUE

AIRWAY EPITHELIAL CELLS
TGF-β2 reduces nitric oxide synthase mRNA through a ROCK-dependent pathway in airway epithelial cells
Jingjing Jiang and Steven C. George

PULMONARY HYPERTENSION
Enhancement of myofilament calcium sensitivity by acute hypoxia in rat distal pulmonary arteries
Letitia A. Weigand, Larissa A. Shimoda, and J. T. Sylvester
Human immunodeficiency virus transgenic rats exhibit pulmonary hypertension
Amie K. Lund, JoAnn Lucero, Lindsay Herbert, Yushi Liu, and Jay S. Naik

LUNG DEVELOPMENT AND GROWTH
Quantitative characterization of postnatal growth trends in proximal pulmonary arteries in rats using phase-contrast magnetic resonance imaging
Hedi Razavi, Shahrzad Yeganeh Zarafshar, Hirofumi Sawada, Charles Anthony Taylor, and Jeffrey Allan Feinstein

LUNG INFLAMMATION
Organic dust augments nucleotide-binding oligomerization domain (NOD2) expression via an NF-κB pathway to negatively regulate inflammatory responses
J. A. Poole, Tammy Kielian, Todd A. Wyatt, Angela M. Gleason, Jeremy Stone, Kelsey Palm, William W. West, and Debra J. Romberger

PRENATAL BIOLOGY
Pulmonary and systemic inflammatory responses to intraamniotic IL-1α in fetal sheep
Suhas G. Kallapur, Boris W. Kramer, Ilias Nitsos, J. Jane Pillow, Jennifer J. P. Collins, Graeme R. Polglase, John P. Newnham, and Alan H. Jobe

CYSTIC FIBROSIS
Increased folding and channel activity of a rare cystic fibrosis mutant with CFTR modulators
Ray A. Caldwell, Diane E. Grove, Scott A. Houck, and Douglas M. Cyr

AIRWAY SMOOTH MUSCLE CELLS
Mechanical stimuli and IL-13 interact at integrin adhesion complexes to regulate expression of smooth muscle myosin heavy chain in airway smooth muscle tissue
Leena P. Desai, Yidi Wu, Robert S. Tepper, and Susan J. Gunst

LUNG ENDOTHELIAL BIOLOGY
Stiffness and heterogeneity of the pulmonary endothelial glycocalyx measured by atomic force microscopy
Ryan O’Callaghan, Kathleen Marie Job, Randal O. Duli, and Vladimir Hlady