Call for Papers

American Journal of Physiology-Regulatory, Integrative and Comparative Physiology

Control Mechanisms of Renin Synthesis and Release: A 21st Century Perspective

The American Journal of Physiology-Regulatory, Integrative and Comparative Physiology is soliciting the submission of original manuscripts in the field regarding the control mechanisms of renin synthesis and release. This call for papers reflects issues surrounding the renin-angiotensin system (RAS). RAS plays a pivotal role for a variety of cardiovascular functions. The diversity of renin actions is reflected by its complex control.

The 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 with other studies appearing in response to this call.

The submission deadline for this topic is December 31, 2007. 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 for this series, please contact Editor-in-Chief, Prof. Dr. Pontus B. Persson (+49 (0)30 450 528 172, e-mail: pontus.persson@charite.de).
Call for Papers

American Journal of Physiology-Regulatory, Integrative and Comparative Physiology

Insulin Resistance and the Cardiometabolic Syndrome: Adipose Tissue and Skeletal Muscle Factors

The American Journal of Physiology-Regulatory, Integrative and Comparative Physiology is soliciting the submission of original manuscripts addressing the physiological and molecular mechanisms accounting for impaired skeletal muscle and adipose tissue responses to insulin. This call for papers is in recognition of the fundamental role of skeletal muscle and adipose tissue in the metabolic dysregulation associated with obesity and physical inactivity and its contribution to type 2 diabetes mellitus and the cardiometabolic syndrome. Papers addressing the role of adipose tissue expansion and distribution, including intramuscular lipid accumulation, altered inflammatory cytokine pathways, increased renin-angiotensin system activity, and oxidative stress are sought. In addition, papers exploring altered skeletal muscle and adipose tissue metabolic flexibility, mitochondrial oxidative capacity, and substrate utilization in insulin-resistant states, particularly those associated with obesity and physical inactivity, are welcome. This call for manuscripts is understood to include both basic and translational studies.

The 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 with other studies appearing in response to this call.

The submission deadline for this topic is October 1, 2007. 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 for this series, please contact Guest Editor, Dr. Craig Stump (Phone: 520-626-3729; e-mail: cstump@deptofmed.arizona.edu).
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- appetite, obesity, digestion, and metabolism
- genetically modified animals and model organisms
- inflammation and cytokines
- renal hemodynamics and cardiorenal integration
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- developmental physiology and pregnancy
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Heinz Valtin
Nov 01, 2002; 283: 993-1004

Biochemistry of exercise-induced metabolic acidosis
Robert A. Robergs, Farzehn Ghiasvand, Daryl Parker
Sep 01, 2004; 287: 502-516

Maternal and fetal adaptations during pregnancy: lessons in regulatory and integrative physiology
Joey P. Granger
Dec 01, 2002; 283: 1289-1292

An integrated view of oxidative stress in aging: basic mechanisms, functional effects, and pathological considerations
Kevin C. Kriegel, Hannah J. Zhang
Jan 01, 2007; 292: 18-36

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