Mini Review

Regulation of Muscle Transcription by the MyoD Family: The Heart of the Matter
Eric N. Olson .......................................................... 1

Expedited Publication

After initial peer review, when reviewers and editors agree that a full length manuscript does not require major revision, the publication process will be expedited. Authors cannot submit their manuscripts as Expedited Publications. Qualification is based on the peer review process.

Acidic Fibroblast Growth Factor and Heart Development: Role in Myocyte Proliferation and Capillary Angiogenesis
Gary L. Engelmann, Craig A. Dionne, and Michael C. Jaye ..................................................... 7

Original Contributions

Endothelin as a Neuropeptide: Cardiovascular Effects in the Brainstem of Normotensive Rats
Rogelio Mosqueda-Garcia, Tadashi Inagami, Martin Appalsamy, Masanori Sugiyra, and Rose Marie Robertson ............................................................... 20

Induction of Vascular Smooth Muscle Cell Expression of Plasminogen Activator Inhibitor-1 by Thrombin
Hiromoto Noda-Heiny, Satoshi Fujii, and Burton E. Sobel ......................................................... 36

Blockade of ATP-Sensitive Potassium Channels Increases Infarct Size but Does Not Prevent Preconditioning in Rabbit Hearts
Jon D. Thornton, Christy S. Thornton, Diana L. Sterling, and James M. Downey ................................. 44

Altered Calcium Sensitivity of Isometric Tension in Myocyte-Sized Preparations of Porcine Postischemic Stunned Myocardium
P.A. Hofmann, W.P. Miller, and R.L. Moss ............................................................................. 50

Mechanical Properties of Rat Cardiac Skinned Fibers Are Altered by Chronic Growth Hormone Hypersecretion
Eric Mayoux, Renée Ventura-Clapier, José Timsit, Francine Béhar-Cohen, Claudia Hoffmann, and Jean-Jacques Mercadier .................................................. 57

A1-Adenosine Receptor–Mediated Inhibition of Isoproterenol-Stimulated Protein Phosphorylation in Ventricular Myocytes: Evidence Against a cAMP-Dependent Effect
Ramesh C. Gupta, Joachim Neumann, Pam Durant, and August M. Watanabe .................................. 65

Rate-Dependent Prolongation of Cardiac Action Potentials by a Methanesulfonanilide Class III Antiarrhythmic Agent: Specific Block of Rapidly Activating Delayed Rectifier K+ Current by Dofetilide
Nancy K. Jurkiewicz and Michael C. Sanguinetti ........................................................................ 75

XeCl Laser–Induced Fluorescence of Atherosclerotic Arteries: Spectral Similarities Between Lipid-Rich Lesions and Peroxidized Lipoproteins

Measurement of Na+-K+ Pump Current in Isolated Rabbit Ventricular Myocytes Using the Whole-Cell Voltage-Clamp Technique: Inhibition of the Pump by Oxidant Stress
Michael J. Shatock and Hiroshi Matsuura .............................................................................. 91
Age-Related Alterations in the Phosphorylation of Sarcoplasmic Reticulum and Myofibrillar Proteins and Diminished Contractile Response to Isoproterenol in Intact Rat Ventricle
Ming Tao Jiang, Margaret P. Moffat, and Njanoor Narayanan .................................................. 102

Mechanism of Preconditioning: Ionic Alterations
Charles Steenbergen, Michael E. Perlman, Robert E. London, and Elizabeth Murphy ................. 112

20-Hydroxyeicosatetraenoic Acid Is an Endogenous Vasoconstrictor of Canine Renal Arcuate Arteries
Yunn-Hwa Ma, Debebe Gebremedhin, Michal L. Schwartzman, John R. Falck, Joan E. Clark, Bettie Sue Masters, David R. Harder, and Richard J. Roman .................................................. 126

Effects of Intense Antecedent Sympathetic Stimulation on Sympathetic Neurotransmission in the Heart
Tianen Yang and Matthew N. Levy ................................................................. 137

Epicardial Mapping of Ventricular Defibrillation With Monophasic and Biphasic Shocks in Dogs
Xiaohong Zhou, James P. Daubert, Patrick D. Wolf, William M. Smith, and Raymond E. Ideker .......... 145

Effects of Lysolipids and Oxidatively Modified Low Density Lipoprotein on Endothelium-Dependent Relaxation of Rabbit Aorta
Earl L. Mangin Jr., Kiyotaka Kugiyama, Judy H. Nguy, Scott A. Kerns, and Philip D. Henry ............ 161

Altered Left Atrial Compliance After Atrial Appendectomy: Influence on Left Atrial and Ventricular Filling
Brian D. Hoit, Yanfu Shao, Liang-Min Tsai, Rashmi Patel, Marjorie Gabel, and Richard A. Walsh ........ 167

Substrate-Induced Changes in the Lipid Content of Ischemic and Reperfused Myocardium: Its Relation to Hemodynamic Recovery
Monique J.M. de Groot, Will A. Coumans, Peter H.M. Willemsen, and Ger J. van der Vusse .................. 176

Regional Myocardial Capillary Erythrocyte Transit Time in the Normal Resting Heart
Michael F. Allard, Craig T. Kamimura, Dean R. English, Sarah L. Henning, and Barry R. Wiggs .......... 187

Selective A2-Adenosine Receptor Agonists Do Not Alter Action Potential Duration, Twitch Shortening, or cAMP Accumulation in Guinea Pig, Rat, or Rabbit Isolated Ventricular Myocytes
John Shyock, Yejia Song, Desuo Wang, Stephen P. Baker, Ray A. Olsson, and Luiz Belardinelli .......... 194

Impairment by Damage of the Pterygopalatine Ganglion of Nitroxidergic Vasodilator Nerve Function in Canine Cerebral and Retinal Arteries
Noboru Toda, Kazuhide Ayajiki, Kazuhide Yoshida, Hiroshi Kimura, and Tomio Okamura .................. 206

Rapid Communications

Cationic Amphiphiles Prevent Calcium Leak Induced by ATP Depletion in Myocardial Cells
Jonathan R. Clague, Jan A. Post, and Glenn A. Langer .................................................. 214

Smooth and Skeletal Muscle Actin Are Mechanically Indistinguishable in the In Vitro Motility Assay
David E. Harris and David M. Warshaw .................................................................................. 219

Novel Cation-Selective Mechanosensitive Ion Channel in the Atrial Cell Membrane
Donghee Kim .................................................................................................................. 225

Pacemaker Current Exists in Ventricular Myocytes
Hangang Yu, Fang Chang, and Ira S. Cohen ........................................................................... 232

Erratum .......................................................................................................................... 237

News from the American Heart Association ............................................................................ A238
Failure of Prophylaxis for Bacterial Endocarditis: American Heart Association Registry
Kathryn Taubert, Adrian S. Dajani, David T. Durack, and Walter Wilson ................................. A239
Meetings Calendar ........................................................................................................... A240
The online version of this article, along with updated information and services, is located on the World Wide Web at:

http://circres.ahajournals.org/content/72/1.citation

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in Circulation Research can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the Permissions and Rights Question and Answer document.

Reprints: Information about reprints can be found online at:
http://www.lww.com/reprints

Subscriptions: Information about subscribing to Circulation Research is online at:
http://circres.ahajournals.org/subscriptions/