Circulation Research

ORIGINAL CONTRIBUTIONS

1-Arginine Augments Endothelium-Dependent Vasodilation in Cholesterol-Fed Rabbits
Xavier J. Gireld, Alan T. Hirsch, John P. Cooke, Victor J. Dzau, and Mark A. Creager ................. 1301

Baroreflex Control of Renal Sympathetic Nerve Activity Is Potentiated at Early Phase of Two-Kidney, One-Clip Goldblatt Hypertension in Conscious Rabbits
Hiroo Kumagai, Hiromichi Suzuki, Munekazu Ryzaki, Shigeaki Matsukawa, and Takao Saruta .... 1309

Vasoactive Intestinal Polypeptide Facilitates Atrioventricular Nodal Conduction and Shortens Atrial and Ventricular Refractory Periods in Conscious and Anesthetized Dogs
Dean F. Rigel and David A. Lathrop .................................................. 1323

Regional Changes in Creatine Kinase and Myocyte Size in Hypertensive and Nonhypertensive Cardiac Hypertrophy
Shirley H. Smith, Martha F. Kramer, Ilana Reis, Sanford P. Bishop, and Joanne S. Ingwall ........... 1334

Brain Natriuretic Peptide–like Immunoreactive Innervation of the Cardiovascular and Cerebrovascular Systems in the Rat
Clifford B. Saper, Melina R. Kibbe, Karen M. Hurley, Selden Spencer, H. Rodney Holmes, Kathy M. Leahy, and Philip Needelman ........................................ 1345

Remodeling of the Rat Right and Left Ventricles in Experimental Hypertension

Effect of Chemodenervation on the Cerebral Vascular and Microvascular Response to Hypoxia
Mujahid Anwar, Inna Kissen, and Harvey R. Weiss ........................................ 1365

Mono-1-arginine–Containing Compounds Dilate Piglet Pial Arterioles Via an Endothelium-Derived Relaxing Factor–like Substance
D.W. Busija, C.W. Leffler, and L.C. Wagerle ........................................... 1374

Chronic Calcium Channel Blockade Prevents the Progression of Myocardial Contractile and Electrical Dysfunction in the Cardiomyopathic Syrian Hamster
Joseph M. Capasso, Edmund H. Sonnenblick, and Piero Anversa ....................................... 1381

Prostaglandins Contribute to Activation of Baroreceptors in Rabbits: Possible Paracrine Influence of Endothelium
Hsing I. Chen, Mark W. Chapleau, Thomas S. McDowell, and Francois M. Abboud .................. 1394

Intrathoracic Current Flow During Transthoracic Defibrillation in Dogs: Transcardiac Current Fraction
O. Carlton Deale and Bruce B. Lerman ................................................. 1405

Relation Between Transcardiac and Transthoracic Current During Defibrillation in Humans
Bruce B. Lerman and O. Carlton Deale .................................................. 1420

Ellipsoidal Shell Subtraction Model of Right Ventricular Volume: Comparison With Regional Free Wall Dimensions as Indexes of Right Ventricular Function
Michael P. Feneley, Joseph R. Elbeery, J. William Gaynor, Stanley A. Gall Jr., James W. Davis, and J. Scott Rankin .......................................................... 1427

Evaluation of Left Ventricular Mechanical Restitution in Closed-Chest Dogs Based on Single-Beat Elastance
Gregory L. Freeman and James T. Colston ............................................. 1437
Endothelium-Derived Relaxing Factor Released From Canine Femoral Artery by Acetylcholine Cannot Be Identified as Free Nitric Oxide by Electron Paramagnetic Resonance Spectroscopy
Stanley S. Greenberg, Dean E. Wilcox, and Gabor M. Rubanyi .............................................. 1446

Enhanced Chemiluminescence as a Measure of Oxygen-Derived Free Radical Generation During Ischemia and Reperfusion

Role of the Area Postrema in the Modulation of the Baroreflex Control of Heart Rate by Angiotensin II
Shigeaki Matsukawa and Ian A. Reid ......................................................... 1462

Collagen Phenotypes During Development and Regression of Myocardial Hypertrophy in Spontaneously Hypertensive Rats
Debabrata Mukherjee and Subha Sen ......................................................... 1474

Regeneration of Myocardial Phosphocreatine in Pigs Despite Continued Moderate Ischemia

Ouabain Increases the Calcium Concentration in Intracellular Stores Involved in Stimulus–Response Coupling in Human Platelets
Peter Roevens and Didier de Chaffoy de Courcelles .............................................. 1494

The Magnetocardiogram as Derived From Electrocardiographic Data
A. van Oosterom, T.F. Oostendorp, G.J. Huiskamp, and H.J.M. ter Brake ..................... 1503

Nonlinear Dynamics of Rate-Dependent Activation in Models of Single Cardiac Cells
Alain Vinet, Dante R. Chialvo, Donald C. Michaels, and José Jalife ...................... 1510

β-Adrenergic Agonists Stimulate the Oxidative Pentose Phosphate Pathway in the Rat Heart
Heinz-Gerd Zimmer, Hans Ibel, and Ulrich Suchner .............................................. 1525

Specific α1-Adrenergic Receptor Subtypes Modulate Catecholamine-Induced Increases and Decreases in Ventricular Automaticity
Ughetta del Balzo, Michael R. Rosen, Gabriella Malfatto, Linda M. Kaplan, and Susan F. Steinberg . 1535

In Vivo Thrombin Inhibition Enhances and Sustains Arterial Recanalization With Recombinant Tissue-type Plasminogen Activator
Ik-Kyung Jang, Herman K. Gold, Robert C. Leinbach, John T. Fallon, and Desire Collen ............ 1552

Characterization of the Vascular Thromboxane A2/Prostaglandin Endoperoxide Receptor in Rabbit Aorta: Regulation by Dexamethasone
William C. Sessa, Perry V. Halashka, Anselm Okwu, and Alberto Nasjletti ....................... 1562

VOLUME AUTHOR INDEX ................................................................. 1570
VOLUME SUBJECT INDEX .................................................................. 1573
NEWS FROM THE AMERICAN HEART ASSOCIATION ...................................... A1591