

The Dependence of Unloaded Shortening Velocity on Ca⁺⁺, Calmodulin, and Duration of Contraction in "Chemically Skinned" Smooth Muscle. <i>Richard J. Paul, Glenn Doerman, Claudia Zeugner, and J. Casper Rüegg</i>	342
Compartmentalization of Adriamycin and Daunomycin in Cultured Chick Cardiac Myocytes: Effects on Synthesis of Contractile and Cytoplasmic Proteins. <i>William Lewis, Marlene Galizi, and Saul Puszkin</i>	352
Intracardiac Flow Patterns in Early Embryonic Life: A Reexamination. <i>Hitoshi Yoshida, Frank Manasek, and Rene A. Arcilla</i>	363
Rabbit Arterial Endothelium and Subendothelium: A Change in Interfacial Free Energy that May Promote Initial Platelet Adhesion. <i>John F. Boyce, Philip C. Wong, Samuel Schürch, and Margot R. Roach</i>	372
Myocardial Healing and Repair after Experimental Infarction in the Rabbit. <i>Robert H. Lerman, Carl S. Apstein, Herbert M. Kagan, Ellen L. Osmers, Clinton O. Chichester, W. Mark Vogel, Carolyn M. Connelly, and William P. Steffee</i>	378
Mechanism of Constriction of Large Coronary Arteries by β-Adrenergic Receptor Blockade. <i>Stephen F. Vatner and Thomas H. Hintze</i>	389
Direct Determination of Vasa Recta Blood Flow in the Rat Renal Papilla. <i>Christopher Holliger, Kevin V. Lemley, Susan L. Schmitt, Frances C. Thomas, Channing R. Robertson, and Rex L. Jamison</i>	401
<hr/>	
BRIEF COMMUNICATIONS	
Differences in Thallium-201 Uptake in Reperfused and Nonreperfused Myocardial Infarction. <i>Jacques A. Melin, Lewis C. Becker, and Bernadine Healy Bulkley</i>	414
Natriuretic Activity of Human and Monkey Atria. <i>Moufid N. Nemeah and Joseph P. Gilmore</i>	420
Morphology of Rapidly Frozen Aortic Endothelial Cells: Glutaraldehyde Fixation Increases the Number of Caveolae <i>Paul G. McGuire and T. Alan Twietmeyer</i>	424
<hr/>	
NEWS FROM THE AMERICAN HEART ASSOCIATION	430

No. 4 (October)

Glomerular Ultrafiltration Coefficient after Ischemic Renal Injury in Dogs. <i>Virginia J. Savin, Ram V. Patak, Garrett Marr, Arlo S. Hermreck, Steven M. Ridge, and Kristy Lake</i> ...	439
The Effect of Intracellular Oxygen Concentration on Lactate Release, Pyridine Nucleotide Reduction, and Respiration Rate in the Rat Cardiac Tissue. <i>Ryuichiro Araki, Mamoru Tamura, and Isao Yamazaki</i>	448
Vibratory Ventilation Decreases Filtration of Fluid in the Lungs of Newborn Lambs. <i>J. Usha Raj, Robert B. Goldberg, and Richard D. Bland</i>	456
Age-Associated Alterations in Viscoelastic Properties of Canine Aortic Strips. <i>Frank C.P. Yin, Harold A. Spurgeon, and Clayton H. Kallman</i>	464
Evidence that Serotonin Receptors Mediate the Cutaneous Vasoconstriction Produced by 5-Hydroxytryptamine in Canine Forelimbs. <i>David E. Dobbins, Stan W. Adamski, Mustafa F. Lokhandwala, and George J. Grega</i>	473
Effects of Cations, Phospholipases, and Neuraminidase on Calcium Binding to "Gas-Dissected" Membranes from Cultured Cardiac Cells. <i>G.A. Langer and L.M. Nudd</i>	482
Vascular Smooth Muscle Cell Hypertrophy and Hyperploidy in the Goldblatt Hypertensive Rat. <i>Gary K. Owens and Stephen M. Schwartz</i>	491
Carotid Bifurcation Atherosclerosis: Quantitative Correlation of Plaque Localization with Flow Velocity Profiles and Wall Shear Stress. <i>Christopher K. Zarins, Don P. Giddens, B.K. Bharadvaj, Vikrom S. Sottiurai, Robert F. Mabon, and Seymour Glagov</i>	502
The Oxygen Sensitivity of Hamster Cheek Pouch Arterioles: In Vitro and in Situ Studies. <i>William F. Jackson and Brian R. Duling</i>	515
Propagation through Electrically Coupled Cells: Effects of Regional Changes in Membrane Properties. <i>Ronald W. Joyner, John Picone, Richard Veenstra, and David Rawling</i>	526
<hr/>	
BRIEF COMMUNICATIONS	
Vasoactive Intestinal Peptide Inhibitory Innervation in Bovine Mesenteric Lymphatics: A Histochemical and Pharmacological Study. <i>Toshio Ohhashi, John A. Olschowka, and David M. Jacobowitz</i>	535

Relationship of Binding of a Calcium Channel Blocker to Inhibition of Contraction in Intact Cultured Embryonic Chick Ventricular Cells. <i>James D. Marsh, Evan Loh, Daniel Lachance, William H. Barry, and Thomas W. Smith</i>	539
Isolation and Characterization of Single Canine Cardiac Purkinje Cells. <i>Michael F. Sheets, Craig T. January, and Harry A. Fozzard</i>	544
<hr/>	
NEWS FROM THE AMERICAN HEART ASSOCIATION	549

No. 5 (November)

BRIEF REVIEW

Role of Endothelium in Responses of Vascular Smooth Muscle. <i>Robert F. Furchgott</i>	557
<hr/>	
Role of Intrapulmonary Release of Eicosanoids and Superoxide Anion as Mediators of Pulmonary Dysfunction and Endothelial Injury in Sheep with Intermittent Complement Activation. <i>Sandra Z. Perkowski, Andrew M. Havill, John T. Flynn, and Marlys H. Gee</i>	574
Hydrogen Peroxide and Hydroxyl Radical Mediation of Activated Leukocyte Depression of Cardiac Sarcoplasmic Reticulum: Participation of the Cyclooxygenase Pathway. <i>G. Thomas Rowe, Nancy H. Manson, Martin Caplan, and Michael L. Hess</i>	584
Relative Contribution of Vasopressin and Angiotensin II to the Altered Renal Microcirculatory Dynamics in Two-Kidney Goldblatt Hypertension. <i>Iekuni Ichikawa, Ronald A. Ferrone, Kenneth L. Duchin, Maurice Manning, Victor J. Dzau, and Barry M. Brenner</i>	592
Vagal Afferent Inhibition of Spinothalamic Cell Responses to Sympathetic Afferents and Bradykinin in the Monkey. <i>W. Steve Ammons, Robert W. Blair, and Robert D. Foreman</i>	603
Effect of Coronary Artery Pressure on Transmural Distribution of Adrenergic Coronary Vasoconstriction in the Dog. <i>Charles W. Buffington and Eric O. Feigl</i>	613
Transcapillary Water and Protein Flux in the Canine Intestine with Acute and Chronic Extrahepatic Portal Hypertension <i>Charles L. Witte, John F. Myers, Marlys H. Witte, and Murray A. Katz</i>	622
Factors Modifying the Early Nondiuretic Vascular Effects of Furosemide in Man: The Possible Role of Renal Prostaglandins. <i>G. Dennis Johnston, William R. Hiatt, Alan S. Nies, N. Ann Payne, Robert C. Murphy, and John G. Gerber</i>	630
Phasic Release of Adenosine during Steady State Metabolic Stimulation in the Isolated Guinea Pig Heart. <i>Donald F. DeWitt, Roger D. Wangler, Carl I. Thompson, and Harvey V. Sparks, Jr.</i>	636
Resting and Exercise Renal Blood Flows in Immature Ovine Aortic Coarctation: Impact of Gradient Relief. <i>James E. Lock, Thomas J. Kulik, Thomas P. Green, Theresa Niemi and Stanley Einzig</i>	644
The Effects of Adriamycin on Normal and Ouabain-Toxic Canine Purkinje and Ventricular Muscle Fibers. <i>Ofer Binah, Ira S. Cohen, and Michael R. Rosen</i>	655
Normothermic Ischemic Cardiac Arrest of the Isolated Working Rat Heart: Effects of Time and Reperfusion on Myocardial Ultrastructure, Mitochondrial Oxidative Function, and Mechanical Recovery. <i>Y. Edoute, E. van der Merwe, D. Sanan, J.C.N. Kotzé, C. Steinmann, and A. Lochner</i>	633
Influence of Polymyxin B, a Probe for Anionic Phospholipids, on Calcium Binding and Calcium and Potassium Fluxes of Cultured Cardiac Cells. <i>Janis M. Burt, Carmen J. Duenas, and Glenn A. Langer</i>	679
Cardiac and Pulmonary Norepinephrine Release and Removal in the Dog. <i>Peter A. Blombery and Birger G.J. Heinzow</i>	688
Activation of Contraction and ATPase Activity in Intact and Chemically Skinned Smooth Muscle of Rat Portal Vein: Dependence on Ca⁺⁺ and Muscle Length. <i>Anders Arner and Per Hellstrand</i>	695
Modulation of Cellular Calcium Stores in the Perfused Rat Heart by Isoproterenol and Ryanodine. <i>Douglas R. Hunter, Robert A. Haworth, and Herbert A. Berkoff</i>	703
<hr/>	
NEWS FROM THE AMERICAN HEART ASSOCIATION	713

No. 6 (December)

Changes in Cardiac Transcapillary Exchange with Metabolic Coronary Vasodilation in the Intact Dog.	
<i>Daniel Cousineau, Colin P. Rose, Daniel Lamoureux, and Carl A. Goresky</i>	719
Effect of Sulfinpyrazone on Homocysteine-Induced Endothelial Injury and Arteriosclerosis in Baboons.	
<i>Laurence A. Harker, John M. Harlan, and Russell Ross</i>	731
Effects of Acetylcholine on Electrophysiological Properties of Rabbit Cardiac Purkinje Fibers	
<i>Kanigula Mubagwa and Edward Carmeliet</i>	740
Coexistence of β_1- and β_2-Adrenoceptors in Human Right Atrium: Direct Identification by (\pm)-[¹²⁵I]Iodocyanopindolol Binding.	
<i>Otto-Erich Brodde, Karsten Karad, Hans-Reinhard Zerkowski, Norbert Rohm, and J. Christoph Reidemeister</i>	752
Energy Levels at Systole vs. Diastole in Normal Hamster Hearts vs. Myopathic Hamster Hearts.	
<i>Richard Sievers, William W. Parmley, Thomas James, and Joan Wikman-Coffelt</i>	759
The Contractile State as the Major Determinant in the Evolution of Left Ventricular Dysfunction in the Spontaneously Hypertensive Rat.	
<i>Israel Mirsky, Janice M. Pfeffer, Marc A. Pfeffer, and Eugene Braunwald</i>	767
Activation-Dependent Cumulative Depletions of Extracellular Free Calcium in Guinea Pig Atrium Measured with Antipyrylazo III and Tetramethylmurexide.	
<i>Donald W. Hilgemann, Michael J. Delay, and Glenn A. Langer</i>	779
Mechanisms of Escape from Desmopressin in the Rat.	
<i>Peter A. Gross, Jin K. Kim, and Robert J. Anderson</i>	794
Effects of Endothelial Denudation and Cholesterol Feeding on In Vivo Transport of Albumin, Glucose, and Water across Rabbit Carotid Artery.	
<i>Aram V. Chobanian, James O. Menzoian, Jane Shipman, Kevin Heath, and Christian C. Haudenschild</i> .	805
<hr/>	
BRIEF COMMUNICATIONS	
Electrical and Mechanical Restitution of the Human Heart at Different Rates of Stimulation.	
<i>Michael R. Franz, Jochen Schaefer, Michael Schöttler, W. Anthony Seed, and Mark I.M. Noble</i>	815
Unitary Sodium Channels in Isolated Cardiac Myocytes of Rabbit.	
<i>Augustus O. Grant, C. Frank Starmer, and Harold C. Strauss</i>	823
Inhibition of Indium-111 Platelet Accretion onto Venous Thrombi in Dogs by Prostacyclin.	
<i>G. Czer, K.M. Moser, R. Konopka, and M.T. Hartman</i>	830
<hr/>	
LETTERS TO THE EDITOR	834
ERRATA	836
RETRACTION	837
ACKNOWLEDGMENT TO REVIEWERS	838
NEWS FROM THE AMERICAN HEART ASSOCIATION	841
AUTHOR INDEX	846
SUBJECT INDEX	848