A-650  Room D, 10/16/2000 2:00 PM - 4:00 PM (PS) Chronic Milrinone Reduces the Negative Myocardial Functional and Metabolic Effects of Nitric Oxide in Donkeys James T. To, Ph.D., M.D.; Mark W. Huang, M.D.; Harvey R. Weiss, Ph.D.; Peter M. Scholz, M.D., Anesthesiology, Physiology & Biophysics and Surgery, UMDNJ- Robert Wood Johnson Medical School, New Brunswick, NJ, United States. Chronic milrinone reduces myocardial effects of nitric oxide suggesting defects in cGMP system.

A-651  Room D, 10/16/2000 2:00 PM - 4:00 PM (PS) Preconditioning with Sevoflurane Enhances Calcium Sensitivity after Ischemia in Intact Guinea Pig Hearts Srinivasan G. Varadarajan, M.D.; Hanszobong An, M.D; Enis Nordjif, M.D; David F. Stowe, M.D PhD, Anesthesiology and Physiology, Medical College of Wisconsin, Milwaukee, WI, United States. Sevoflurane preconditioning before ischemia improves contractility and myocyte calcium sensitivity in intact hearts.

A-652  Room D, 10/16/2000 2:00 PM - 4:00 PM (PS) Volatile Anesthetics Beneficially Affect bcl-2-to-bax Ratio in Calcium-Overloaded Adult Rat Ventricular Myocytes M. Zaugg, M.D; S. A. Shafii, Ph.D; Maq Siddiqui, Ph.D; Department of Anatomy and Cell Biology, SUNY, Brooklyn, NY, United States. Volatile anesthetics increase bcl-2-to-bax ratio in calcium-overloaded cardiocytes representing a new mechanism of apoptotic cardioprotection.

A-653  Room D, 10/16/2000 2:00 PM - 4:00 PM (PS) b2-Adrenergic Stimulation Does Not Induce Apoptosis in Adult Cardiomyocytes Michael Zaugg, M.D; Eliana Lucchinni, M.S; Maq Siddiqui, Ph.D; Department of Anatomy and Cell Biology, SUNY, Brooklyn, NY, United States. b2-adrenergic stimulation does not induce apoptosis in cardiocytes and thus may serve as periphereal molecular ventricular assistance.

Experimental Circulation: Emerging Clinical Issues

A-654  Room 301, 10/17/2000 9:00 AM - 10:30 AM (PD) Assessment of the Efficacy of External Vest Assist for the Treatment of Acute Heart Failure in Dogs Marc L. Dickstein, M.D.; Mark Gelfand; Henry Halpert; Michael Weisfeld; Daniel Burkhoff, M.D., Anesthesiology, Columbia University, New York, NY, United States. Cardiac cycle-specific chest compression with a circumthoracic pneumatic vest does not improve cardiac output in a canine model of heart failure.

A-655  Room 301, 10/17/2000 9:00 AM - 10:30 AM (PD) Troponin Ic (cTnl) for Diagnosis of Postoperative Myocardial Infarction (PMI) after Coronary Artery Bypass Graft (CABG) Surgery with Cardiopulmonary Bypass (CPB) Denis P. Libbe, MD; Philippe Bizeauarn, MD; Jacques Hella, MD; Odile Delarocbe, MD; Yvonnick A. Blaneboel, MD, Ass Profess, Anesthesiology, CHU, Nantes, France. Troponin Ic did not predict postoperative myocardial infarction in coronary surgery.

A-656  Room 301, 10/17/2000 9:00 AM - 10:30 AM (PD) Effect of High Thoracic Epidural Anesthesia (TEA) on Global Left Ventricular (LV) Function in Patients with Coronary Artery Disease (CAD) Christoph Schmidt, MD; Stefan Wirtz, MD; Hugo Van Aken, MD, PhD; Thomas Moelhoff, MD, PhD; Elmar Berendes, MD, PhD; Klinik fuer Anaesthesiologie, Westfaelische Wilhelms-Universitaet Muenster, Muenster, NRW, Germany. TEA results in improved LV function in patients with CAD.

A-657  Room 301, 10/17/2000 9:00 AM - 10:30 AM (PD) Inhibition of Complement, Neutrophil and Platelet Activation by an Anti-Factor D Antibody during Extracorporeal Circulation Paul G. Lobsor, M.D; Michael Fung, Ph.D; Aki Unrod, Ph.D; Raquel Reyina, R.N.; William K. Vaughan, Ph.D., Anesthesiology, Baylor College of Medicine, Houston, TX, United States. Action of anti-factor D mab on alternative pathway activation during ex vivo extracorporeal circulation.

A-658  Room 301, 10/17/2000 9:00 AM - 10:30 AM (PD) Nitric Oxide Gas (NO) Attenuates Sickle Hemoglobin Polymerization, In Vitro C. Alvin Head, M.D.; Pedro Montero-Huerta, M.D.; Jay X. Tang, Ph.D.; George H. Addona, Ph.D.; Kenneth R. Bridges, M.D., Anesthesiology and Critical Care, Massachusetts General Hospital, Boston, MA, United States. Sickle hemoglobin (HbS) polymerizes with deoxygenation. Our study demonstrates that nitric oxide gas reduces HbS polymerization.


A-661  Room 301, 10/17/2000 9:00 AM - 10:30 AM (PD) Series Oxygenation Configuration Enhances O2 Delivery W. Kelly, MD; Y. Xia, MD; R. Harker, MD; J. Raiton, BS; CCP; T. Smith, BS, CCP, Department of Anesthesiology, The Ohio State University, Columbus, OH, United States. A study comparing oxygenator efficiency in a series vs. parallel system. A series configuration is more efficient at oxygen delivery compared to a single oxygenator or 2 oxygenators in parallel.

Experimental Circulation: Systemic & Reflex Circulatory Control

A-662  Room 220-222, 10/17/2000 10:30 AM - 12:00 PM (PD) Inhaled Isoflurane Inhibits Cardiovascular Responses to Glutamate Microinjection into Nucleus Tractus Solitarius in Unanesthesitized Decerebrate Rats Kyoung S.K. Chang, MD,PhD; Jong S. Lee, MD; Don R. Morrow; BS; Michael C. Andreassen, PhD, Anesthesiology, Oregon Health Sciences University, Portland, OR, United States. Isoflurane may depress baroreflex control of HR by suppressing NTS glutamate receptors.