

A-677 Room 220-222, 10/17/2000 3:30 PM - 5:00 PM (PD)
Changes in Cerebral Microcirculation after the Release of Aortic Clamp in Rabbits Masayoshi Uchida, MD; Hiroki Iida, MD; Mami Iida, MD; Shuji Dobi, MD, Department of Anesthesiology, Gifu University School of Medicine, Gifu City, Gifu, Japan. Since cerebral pial vasoconstriction following aortic declamping is attenuated by seratro-dast, it could be induced by TxA_2 .

Experimental Circulation: Preconditioning & Potassium Channels

A-678 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Effect of Isoflurane on PKC Activated K_{ATP} Channel: Implications for Anesthetic Preconditioning Kazubiro Fujimoto, MD, PhD; Zeljko J. Bosnjak, PhD; Wai-Meng Kwok, PhD, Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Isoflurane modulates PKC activated K_{ATP} channel via an intracellular mechanism.

A-679 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Sevoflurane Pre-treatment Improves Function and Reduces Formation of Peroxynitrite after Global Ischemia in Isolated Hearts Enis Novalija, MD; Jianzhong An, MD; Amadou Camara, PhD; Srinivasan G. Varadarajan, MD, PhD; David F. Stowe, MD, PhD, Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Sevoflurane pre-treatment improves function and reduces peroxynitrite after ischemia.

A-680 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Diabetes and Acute Hyperglycemia Abolish Mitochondrial K_{ATP} Channel-Induced Cardioprotection In Vivo Judy R. Kersten, MD; Wolfgang G. Toller, MD; Paul S. Pagel, MD PhD; David C. Warltier, MD PhD, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Diazoxide does not reduce myocardial infarct size in diabetic or hyperglycemic dogs.

A-681 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Role of Mitochondrial K_{ATP} and Stretch-Activated Channels in Isoflurane-Induced Preconditioning Vincent Piriou, MD, PhD; Pascal Cbiari, MD; Jean Neidecker, MD; Michel Ovize, MD, PhD; Jean-Jacques Lebot, MD, PhD, EA 1896. Anesthésie-Reanimation, Hôpital Cardiovasculaire Louis Pradel, Lyon, France. We showed that 5-hydroxydecanoate and gadolinium antagonized isoflurane-induced preconditioning.

A-682 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Chronic Intermittent Consumption of Low Doses of Ethanol Reduces Experimental Myocardial Infarct Size by K_{ATP} Channel Activation in Dogs Paul S. Pagel, MD PhD; Wolfgang G. Toller, MD; Eric R. Gross, BS; Judy R. Kersten, MD; David C. Warltier, MD PhD, Anesthesiology, Medicine, and Pharmacology, Medical College of Wisconsin, Milwaukee, WI, United States. Ethanol reduces infarct size by activating K_{ATP} channels

A-683 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Isoflurane Sensitizes the Cloned Pancreatic K_{ATP} Channel to Diazoxide Anna Stadnicka, PhD; Wai-Meng Kwok, PhD; Zeljko J. Bosnjak, PhD, Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Isoflurane inhibits current through cloned pancreatic K_{ATP} channels expressed transiently in HEK293 cells, and sensitizes the channel to diazoxide.

A-684 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Remote Preconditioning Improves Lung Function after Repeated Coronary Artery Occlusion and Reperfusion Zhengyuan Xia, MD; Paul Herijgers, MD, PhD; P. Wouters, MD, PhD; T. Nisbida, MD, PhD; V. Leumens, Center for Experimental Surgery and Anesthesiology, Catholic University of Leuven, Leuven, Leuven, Belgium. RPC improves lung gas exchange after repeated coronary artery occlusion and reperfusion.

A-685 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)
Ischemic Preconditioning of the Kidney Does Not Result in Alterations of Reperfusion Blood Flow in a Rat Model of Ischemic Reperfusion Injury Dwight D. Deal, B.S.; Jason C. Vernon, B.S.; James Zboyovski, B.S.; David M. Colonna, M.D.; David A. Zvara, M.D., Dept. of Anesthesiology, Wake Forest Univ. Sch. of Med., Winston-Salem, NC, United States. Ischemic preconditioning does not alter reperfusion renal blood flow.