

**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  $\text{TxA}_2$ .

### 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<sub>ATP</sub> 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<sub>ATP</sub> 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<sub>ATP</sub> 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<sub>ATP</sub> 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<sub>ATP</sub> 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<sub>ATP</sub> channels

**A-683 Room 309, 10/18/2000 2:00 PM - 3:30 PM (PD)**  
**Isoflurane Sensitizes the Cloned Pancreatic K<sub>ATP</sub> 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<sub>ATP</sub> 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.