**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 Dohi, MD, Department of Anesthesiology, Gifu University School of Medicine, Gifu City, Gifu, Japan.* Since cerebral pial vasoconstriction following aortic declamping is attenuated by seratrodast, 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 KATP Channel: Implications for Anesthetic Preconditioning** *Kazuhiro Fujimoto, MD, PhD; Zeljko J. Bosnjak, PhD; Wai-Meng Kwok, PhD, Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States.* Isoflurane modulates PKC activated KATP 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.* Sevoflourane 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 KATP and Stretch-Activated Channels in Isoflurane-Induced Preconditioning** *Vincent Piriou, MD, PhD; Pascal Chiari, MD; Jean Neidecker, MD; Michel Ovize, MD, PhD; Jean-Jacques Lehot, MD, PhD, EA 1896. Anesthesie-Reanimation, Hopital 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 KATP 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 KATP 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. Nishida, MD, PhD; V. Leunens, 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.