ASA ABSTRACTS

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; Mamiko Iida, MD; Shoji Dohi, MD, Department of Anesthesiology, Gifu University School of Medicine, Gifu City, Gifu, Japan. Since cerebral pial vasoconstriction following aortic declamping is attenuated by etorphine, it could be induced by TXA2.

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
Kazuhiko 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 Nosalija, MD; Jianzong An, MD; Anadon Camara, PhD; Srinivasan G. Varadarajan, MD,PhD; David F. Stone, 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 KATP Channel-Induced Cardioprotection In Vivo
Judy R. Kersten, MD; Wolfgang G. Toller, MD; Paul S. Pagel, MD,PhD; David C. Warriner, 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 Pirion, MD, PhD; Pascal Chiari, MD; Jean Neudecker, MD, Michel Orize, MD, PhD; Jean-Jacques Isbot, MD, PhD, EA 1896, Anesthesie-Resuscitation, 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 KATP Channel Activation in Dogs
Paul S. Pagel, MD,PhD; Wolfgang G. Toller, MD; Eric R. Gross, BS; Judy R. Kersten, MD; David C. Warriner, MD,PhD, Anesthesiology, Medicine, and Pharmacology, Medical College of Wisconsin, Milwaukee, WI, United States. Ethanol reduces infarct size by activating KATP 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. Remote preconditioning 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