A-97  Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Sevoflurane Anesthesia Does Not Induce Sister Chromatid Exchanges in Lymphocytes of Children Thorsten Krause, M.D.; Jens Scholz, M.D.; Lars Jansen, M.D.; Claudia Koch, M.D.; Jochen Schulte am Esch, M.D.; Anesthesiology, University-Hospital Eppendorf, Hamburg, Germany. Degradation products of sevoflurane produce genotoxicity in vitro. This was not confirmed in vivo after sevoflurane anesthesia.

A-98  Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
The Role of Nitric Oxide in Isoflurane-Mediated Vasodilation in Humans Ali Mbaourab, MD; Thomas J. Ebert, MD, PhD. Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Nitric oxide plays an important role in the vasodilation of vessels during isoflurane anesthesia, however whether it is active or permissive is not yet known.

A-99  Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Induction of Heme Oxygenase-1 Minimizes Venular Leukocyte-Endothelial Interaction Elicited by Halothane Anesthesia In Vivo Hiroshi Morisaki, MD; Tominbho Katayama, MD; Yoshifumi Kotoke, MD; Junzo Takei, MD; Makoto Suetsama, MD, Anesthesiology, Keio University School of Medicine, Tokyo, Japan. Induction of heme oxygenase-1 modified halothane-induced leukocyte adhesion in vivo.

A-100 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Intraoperative Morphee and Early Recovery after Remifentanil-Isoflurane-N2O Anesthesia Hernan R. Munoz, MD; Mario E. Guerrero, MD, Verena Brandes, MD, Department of Anesthesiology, Catholic University, Santiago, Chile. The intraoperative administration of morphine during a remifentanil-based anesthesia did not prolong the early recovery period compared to placebo.

A-101 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Sevoflurane-Vaporized Cardioplegia Improves Myocardial Wall Motion after Coronary Revascularization Nader D. Nader, M.D., Ph.D.; Carlos M. Li, M.D.; Wiam Z. Khadra, Ph.D; Anthony L. Pansos, M.D.; Paul R. Knight, M.D., Ph.D., Anesthesiology, University of Arkansas, Little Rock, AR, United States. Vaporizing cardioplegia solution with sevoflurane decreased wall motion abnormality after coronary revascularization.

A-102 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Minimum Alveolar Concentration (MAC) of Xenon with Sevoflurane in Humans Yoshinori Nakata, MD, MBA; Takabisa Goto, MD; Yoshiki Ishiguro, MD; Yoshinari Nittmi, MD; Sibgebo Morita, MD, Anesthesi, Teikyo University Ichibara Hospital, Ichibara, Chiba, Japan. The MAC values of xenon and sevoflurane are 63.1% and 1.74%, respectively.

A-103 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Deletion in RyRI Gene Associated with MH and with Abnormal Electrically Evoked Twitch Tension In Vitro Thomas E. Nelson, Ph.D.; Nyanmikhsg Sambuughin, Ph.D., Dept. of Anesthesiology, Wake Forest University School of Medicine, Winston-Salem, NC, United States. A novel 3-base deletion in the RyRI gene links to MH susceptibility and unusual contraction phenotype in 2 affected families.

A-104 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Verapamil and Nifedipine Differentially Modulate the Effect of Sevoflurane on Cardiac L-Type Calcium Channel Hirotsugu Okamoto, M.D., Ph.D.; Anthony J. Mazzese, M.D.; Zeikko I. Bosnjak, Ph.D.; Wai-Meng Kuok, Ph.D., Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Verapamil and nifedipine may interact with sevoflurane at distinct sites on cardiac L-type calcium channel.

A-105 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Effect of Halothane on IP3 and Ryndodine Receptor Calcium Release Channels in Airway Smooth Muscle Christina M. Pablick, M.D., Y.S. Prakash, Ph.D.; Gary C. Sieck, Ph.D., Department of Anesthesiology, Mayo Clinic, Rochester, MN, United States. Halothane depletes Ca2+ stores in airway smooth muscle by inducing leak through IP3 and ryanodine receptor channels.

A-106 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
 Intravenous Isoflurane Lipid Emulsion is More of a Myocardial Depressant Than Inhaled Isoflurane Christian Poppa, MD; John L. Fontana, MD; Paul D. Mongan, MD, Anesthesiology, Walter Reed Army Medical Center, Washington, DC, United States. We compared the hemodynamic effects of IV and inhaled isoflurane and found similar HR and BP but greater myocardial depression using the IV route.

A-107 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
“Paradoxical Arousal” during Bispectral Index Monitoring Ira J. Rampit, MS, MD; Hongmei Cat, PhD; Patricia B. Embree, RN; Scott D. Greenwald, PhD, Anesthesiology, University of California, San Francisco, CA, United States. Paradoxical arousal(PA) slows EEG; we sought its prevalence. In 1901 anesthetized EEGs, we found 37 PA; 10x more frequent in vapor than iv anesthetics, 4x more common under 18 yr.

A-108 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Optimization of Maintenance Concentrations of Volatile Anesthetics, Propofol, and Opioids: Costs and Awakening Times Heiko Roepke, MD; Thomas Bouillon, MD; Joergen Bruhn, M.D., Dept. of Anesthesiology, University of Bonn, Bonn, Germany. Pharmacokinetic and -dynamic models were used to identify optimal anesthetic drug combinations with respect to minimal costs or awakening times.

A-109 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Hemodynamic Responses to Isoflurane, Desflurane, and Sevoflurane in Rats Following Chronic Morphine or Cocaine Administration R. Sabar, A.D. Kaye, S. Vig, C. Ricaldi, J.E. Heatner, Anesthesiology, Physiology, Pharmacology, Texas Tech University, Lubbock, TX, United States. SNP response in rats exposed chronically to morphine or cocaine is dependent on anesthetic and its concentra-

A-110 Room E, 10/17/2000 2:00 PM - 4:00 PM (PS)
Sevoflurane Does Not Affect Platelet Function in Coronary Artery Bypass Graft Hirotsugu Okamoto, M.D.; Takabisa Mayumi, M.D.; Osamu Kanno, M.D., Department of Anesthesiology, Hokkaido OHSO Hospital, Sapporo, Hokkaido, Japan. Sevoflurane does not affect platelet function and onset time and clot rate by Sonoclot® compared with propofol in coronary artery bypass graft.