ABOUT DR. KHARASCH

Evan D. Kharasch, MD, PhD, is the Russell D. and Mary B. Shelden Professor of Anesthesiology in the Department of Anesthesiology at Washington University in St. Louis. He is also a professor in the Department of Biochemistry and Molecular Biophysics and holds appointments in the Washington University Pain Center and Siteman Cancer Center. He joined Washington University in St. Louis in 2005.

Dr. Kharasch leads an active research program in basic, translational, and clinical pharmacology and is a practicing anesthesiologist. His research focuses on anesthetic and analgesic drugs, drugs of abuse, and addiction therapies, toward the goal of understanding hepatic and extra-hepatic drug metabolism and drug transport (hepatic, renal, intestinal, and the blood-brain barrier), pharmacokinetics, pharmacodynamics, pharmacogenetics, toxicity, drug interactions, and variability in patient response. These are directed toward optimizing drug disposition, drug safety, clinical effectiveness, and patient satisfaction.

His research also focuses on the development and application of novel noninvasive biomarkers and tests. A major area of focus is noninvasive biomarkers for population screening and differential diagnosis of kidney cancer. He holds patents for that technology, which is currently undergoing commercialization. Dr. Kharasch's research has been continuously NIH-funded for two decades. He is the author of more than 230 research papers, as well as book chapters, is the editor of two major textbooks on anesthetic pharmacology, and is editor-in-chief, elect, of Anesthesiology. Dr. Kharasch is an elected member of the Institute of Medicine of the National Academy of Sciences.

Dr. Kharasch served as the vice chancellor for Research at Washington University in St. Louis from 2009 to 2014, where he was responsible for overseeing research and related administrative and operational activities of the university, including the university’s Office of Technology Management, which is responsible for the protection and commercialization of university intellectual property. He also led a university-wide initiative in research innovation and entrepreneurship to expand Washington University’s research culture in research commercialization.

Dr. Kharasch earned his undergraduate degree (medical science), his medical degree, and his doctorate (pharmacology) from Northwestern University. He received anesthesiology training at the University of Washington in Seattle, where he remained on faculty for 17 years.


20) Christina Crotts, Amanda Lorinc, Maria Sullivan, Amanda Dickert, Ashley Baracz and Michelle Acton, “Pediatric preoperative handovers: Does a checklist improve information exchange?”


DEPARTMENT OF ANESTHESIOLOGY

12th Annual Research Symposium

May 6, 2016 | 6:30 am-2:30 pm

Guest Lecturer
Evan D. Kharasch, MD, PhD
Russell D. and Mary B. Shelden Professor of Anesthesiology
Professor, Biochemistry and Molecular Biophysics
Director, The Center for Clinical Pharmacology
Editor-in-Chief (Elect), Anesthesiology
Washington University School of Medicine, St. Louis, MO

Highlighting the current research of clinical and translational investigators and basic scientists
### POSTER PRESENTATIONS

1. **Sujay Kharade, Haruto Kurata, Corey Hopkins and Jerod Denton, "Kir4.1 (KCNJ10) inhibition with a newly developed antagonist induces diuresis in rats."

2. **Julia Bohannon, Liming Luan, Antonio Hernandez, Benjamin Fensterheim, Yin Guo and Edward Sherwood, "Treatment with TLR4 agonists protects against infection after severe burn injury."

3. **Hanyuan Shi, Maxim Terekhov, Jesse Ehrenfeld and Jonathan Wanderer, "The impact of reduction of testing at a preoperative evaluation clinic: Value added without adverse outcomes."

4. **Hunter Douglas, Michele Salzman and Matthias Riess, "Intralipid protects rat-isolated hearts against ischemia-reperfusion injury through nitric oxide-mediated pathways."

5. **Liming Luan, Naeem Patil, Yin Guo, Antonio Hernandez, Julia Bohannon, Benjamin Fensterheim, Jingbin Wang, Pengcheng Lu, Yamin Xu, Perenlei Enkhbaatar and Edward Sherwood, "Lipopolysaccharide and monophosphoryl lipid induce similar transcriptome profiles in human blood with the exception of proinflammatory genes."

6. **Rebecca Brindley, Mary Beth Bauer, Randy Blakely and Kevin Currie, "An interplay between the serotonin transporter (SERT) and 5-HT receptors controls stimulus-secretion coupling in sympathoadrenal chromaffin cells."


9. **Min Fei, James Blair, Mark Rice, David Edwards, Yafen Liang, Michael Pilla, Matthew Shotwell and Yandong Jiang, "A comparison of the effectiveness of two commonly used two-handed mask ventilation techniques on unconscious apneic obese adults."

10. **Brandon Turner and Brad Grueter, "mGluR-dependent plasticity of cortical connections in the Nucleus Accumbens shell."

11. **Carrie Reale, Jie Xu and Jason Slagle, "Medication events impact on intensive care nurses' workload, mood, and task distribution."

12. **Jason Slagle and Matt Weinger, "Patient and clinician reported Non-Routine Events during periprocedural cardiac catheterization."".


14. **Yafen Liang, Jason O’Neal, Jennifer Morse, Matthew Shotwell, Andrew Shaw and Josh Billings, "Association between intraoperative jugular venous congestion and postoperative delirium."

15. **Bianca Flores, Lynn Wolfe, Rainelli Koumangoys, Cara Schornak, Salma Omer, Barbara Pushy, Christopher Lau, David Adams and Eric Delpire, "A patient with multiple-organ failure carries a truncation mutation in human SLC12A2, the gene encoding the Na-K-2Cl cotransporter, NKCC1."

16. **Rainelli Koumangoys and Eric Delpire, "The Ste20 kinases SPAK and OSR1 travel between cells through exosomes."