

Grant Recipient	Institution	Year Approved	Grant Type	Title
Chinn, Gregory	University of California, San Francisco	2020	MRTG	Physiologic and cellular mechanisms of neonatal GABA mediated neurotoxicity
Fritz, Bradley	Washington University School of Medicine	2020	MRTG	Machine Learning to Enhance Prediction of Postoperative Death and Acute Kidney Injury by Anesthesiology Clinicians
Heshmati, Mitra	University of Washington	2020	MRTG	Dissecting midbrain connectivity in anesthetic emergence
MacKay, Emily	University of Pennsylvania	2020	MRTG	Transesophageal Echocardiography in Cardiac Surgery: Impact of Advanced Cardiac Imaging on Clinical Outcomes
Rosenblatt, Kathryn	Johns Hopkins University School of Medicine	2020	MRTG	Defining Cerebral Autoregulation-Guided Therapeutic Targets in Sepsis
Douville, Nicholas	Regents of the University of Michigan	2020	MRTG	Integrating Genetics and Electronic Health Records to Predict Myocardial Injury after Noncardiac Surgery
Sivanesan, Eellan	Johns Hopkins School of Medicine	2020	MRTG	Spinal cord stimulation for the attenuation of chemotherapy induced painful neuropathy and increased chemotherapeutic efficacy
Gao, Lei	Massachusetts General Hospital (The General Hospital Corp.)	2020	MRTG	Circadian/sleep disturbance and systemic inflammation in the development of delirium
Boncyk, Christina	Vanderbilt University Medical Center	2020	MRTG	The Impact of Increased Prescribing on ICU Survivors
Cook, Daniel	Weill Cornell Medicine	2020	MRTG	How local anesthetics disrupt intracellular calcium stores and the impact on synaptic function and neurotoxicity
Michaelsen, Kelly	University of Washington	2020	MRTG	Automated assessment of drug administration in the operating room with smart eyewear technology
Huffmyer, Julie	University of Virginia	2020	FAER-ABA REG	The Association of MOCA Minute® Performance on ASPIRE Clinical Metrics
Gaulton, Timothy	University of Pennsylvania	2020	APSF-FAER MRTG	Mapping the Epidemiology of Perioperative Driving Safety and Behavior
Gerber, Adam	New York-Presbyterian Hospital (Columbia)	2019	MRTG	Attenuation of LPS induced lung injury with an inhaled MMP inhibitor
Puglia, Michael	University of Michigan	2019	MRTG	Connectivity and Complexity During General Anesthesia in the Developing Brain
Williams, Brittney	University of Maryland School of Medicine	2019	MRTG	Role of TLR7 in platelet activation and dysfunction in sepsis
Frangakis, Stephan	Duke University School of Medicine	2019	RFG	Analgesic Effects of Perioperative Propranolol Administration for Spine Surgery
Xu, Yifan	Oregon Health and Science University	2019	RFG	Modulation of microvascular blood flow and stroke outcome via GPR39
White, Elizabeth	University of Pennsylvania Medical Center	2019	RFG	Identification of molecular targets of fropofol-induced cardiac depression with the novel photoaffinity label ortho-azi-fropofol.
Gruenbaum, Benjamin	Yale University School of Medicine	2019	MRTG	Neuronal Mechanisms of Unconsciousness in an Absence Seizure Model
Li, Li	University of Washington	2019	MRTG	Deciphering the Locus Coeruleus-Thalamic Circuit in Anesthetic Emergence
Bedell, Victoria	University of Pennsylvania Medical Center	2019	MRTG	Anesthetic effects on mitochondrial localization during neural development in zebrafish
Safavnia, Seyed	Weill Medical College of Cornell University	2019	MRTG	Probing the Neural Mechanisms of Post-Anesthesia Care Unit Delirium Using Functional Near-Infrared Spectroscopy
Soens, Mieke	Brigham and Women's Hospital	2019	MRTG	The Role of Specialized Pro-resolving Mediators in the Development of Persistent Post-Surgical Pain
Kovacheva, Vesela	Brigham and Women's Hospital	2019	MRTG	Genome Wide Association Study of Patients with History of Postpartum Hemorrhage
Arriaga, Alexander	Brigham and Women's Hospital	2019	APSF-FAER MRTG	Increasing the Frequency of Debriefing after Perioperative Crises: Altering Trajectories that Impact Provider Burnout and Wellness
Cloyd, Benjamin	University of Michigan	2019	FAER-ABA REG	Is Participation in Maintenance of Certification in Anesthesiology Associated with Clinical Outcomes?
Devinney, Michael	Duke University School of Medicine	2018	RFG	The association of obstructive sleep apnea with postoperative cognitive dysfunction and neuroinflammation
Rong, Lisa	Weill Medical College of Cornell University	2018	MRTG-CT	Mitral Apparatus Tissue Characterization for Prediction of Anesthesia-induced changes and mid-term success after surgical and percutaneous Mitral Valve Repair
Anderson, Thomas	Stanford University School of Medicine	2018	MRTG-CT	Modulation of acute and chronic pain using focused ultrasound on the peripheral nervous system
Doshi, Tina	Johns Hopkins University	2018	MRTG-CT	Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia
Whitlock, Elizabeth	University of California, San Francisco	2018	GEMSSTAR	Impact of Coronary Revascularization on Longitudinal Cognitive Change in the Elderly
Schenning, Katie	Oregon Health and Science University	2018	GEMSSTAR	The role of Alzheimer's risk factors in cognitive decline after spine surgery
Ebert, Thomas	Medical College of Wisconsin	2018	REG	Beyond Milestones; using Holistic Ratings to Evaluate Trainee Performance
Gurba, Katharine	Washington University School of Medicine	2018	RFG	Preclinical Evaluation of Analgesia Mediated by a Novel Muscarinic M4 Positive Allosteric Modulator
Salmasi, Vafi	Stanford University School of Medicine	2018	MRTG-HSR	Comparing effectiveness of Duloxetine and Desipramine in patients with chronic pain: A pragmatic randomized controlled trial using point of care randomization
Martini, Ross	Oregon Health and Science University	2018	MRTG-CT	Eicosanoid pathway manipulation and neurophysiology of delayed ischemia after subarachnoid hemorrhage
Shi, Yu	Mayo Clinic Rochester	2018	MRTG-CT	Longitudinal assessment of affect, behavior, and cognition in children undergoing general anesthesia

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Krishnamoorthy, Vijay	Duke University School of Medicine	2018	MRTG-CT	Mechanisms and Clinical Impact of Myocardial Injury Following Traumatic Brain Injury
Joseph, Thomas	University of Pennsylvania Medical Center	2018	MRTG-BS	Anesthetic interactions with ryanodine receptor 1 in malignant hyperthermia
Cherry, Anne	Duke University School of Medicine	2018	MRTG-BS	Interface of Mitochondrial Quality Control and Immune Activation in Heart Transplant
Shahul, Sajid	University of Chicago	2017	TIG	Esmolol to control adrenergic storm in septic shock
Lee, Allison	New York-Presbyterian Hospital (Columbia)	2017	REG	A mixed methods, RCT comparing two methods of debriefing for a serious game designed to teach novice anesthesia residents (CA1) to perform general anesthesia for emergency cesarean delivery
Bicket, Mark	Johns Hopkins University	2017	MRTG-HSR	Consequences of non-optimal opioid prescribing after surgery
Smith, Loren	Vanderbilt University Medical Center	2017	MRTG-CT	High Density Lipoprotein Particle Characteristics and the Risk of Acute Kidney Injury After Cardiac Surgery
Whitlock, Elizabeth	University of California, San Francisco	2017	MRTG-CT	Cognitive Trajectories Before and After Coronary Revascularization in the Elderly
Freed, Julie	Medical College of Wisconsin	2017	MRTG-CT	Novel Role of Sphingolipids in Maintaining Vascular Homeostasis
Slupe, Andrew	Oregon Health and Science University	2017	RFG	Axon pruning governed by Bax during development and following exposure to volatile anesthetic
Kingeter, Adam	Vanderbilt University Medical Center	2017	MRTG-HSR	Use of a Value-Driven Electronic, Milestone-Based Clinical Pathway to Improve Value for Patients Undergoing Coronary Artery Bypass Grafting Surgery
Vogt, Keith	University of Pittsburgh Medical Center	2017	MRTG-CT	Human memory encoding under anesthesia: how pain affects hippocampal and amygdalar contributions to memory
Norris, Aaron	Washington University School of Medicine	2017	MRTG-BS	Examination of Isoflurane Activated Neural Circuits
Quinones, Quintin	Duke University School of Medicine	2017	MRTG-BS	Reversible Immunomodulation as a Strategy for Ischemia Tolerance in Hibernation
Yim, Peter	New York-Presbyterian Hospital (Columbia)	2017	MRTG-BS	GABAA modulation of myogenic tone in vascular smooth muscle- novel therapy of hypertension
Friese, Matthew	Brigham and Women's Hospital	2016	GEMSSTAR	Age-dependent abnormalities in postanesthetic synaptic scaling as a potential mechanism for delirium
Berger, Miles	Duke University School of Medicine	2016	GEMSSTAR	The Role of MCP1 and Monocyte Activation with the Central Nervous System in Human Postoperative Cognitive Dysfunction, Delirium, and Brain Network Activity Changes.
Zollo, Raymond	Univeristy of Rochester	2016	REG	Does Facilitated Peer Learning and Coaching (PLC) Improve Learning in the First Six Weeks of Training for Anesthesia Non-Technical Skills (ANTS)?
Aranake-Chrisinger, Amrita	Washington University School of Medicine	2016	RFG	The association between postoperative delirium and long-term postoperative cognitive outcomes
Chen, Catherine	University of California, San Francisco	2016	MRTG-HSR	Unintended consequences of routine preoperative testing in cataract surgery patients
O'Gara, Brian	Beth Israel Deaconess Medical Center	2016	MRTG-CT	Anesthetics to Prevent Lung Injury in Cardiac Surgery
Riegelhaupt, Paul	New York-Presbyterian Hospital (Columbia)	2016	MRTG-BS	Structural and functional characterization of the TREK1 K2P potassium channel, a target for chronic pain therapy
Shen, Shiqian	Massachusetts General Hospital	2016	MRTG-BS	The Role of Gut Microbiota in Neuropathic Pain
Kaur, Gunisha	Weill Medical College of Cornell University	2016	REG	A Novel Model for Global Health Education in Anesthesiology
Urman, Richard	Brigham and Women's Hospital	2016	REG	Conducting Perioperative Code Status and Goals of Care Discussions: A Bi-Institutional Study to Develop a Novel, Evidence-Based Curriculum for Anesthesiology Trainees
Alter, Benedict	University of California, San Francisco	2016	RFG	Mechanisms and translational application of conditioned analgesia in post-operative pain
Harper, Glorilee	Stanford University School of Medicine	2016	RFG	An imaging approach to anesthesia and neurodevelopment
Peters, Austin	Oregon Health and Science University	2016	RFG	Modulation of Post-Traumatic Neurogenesis and Recovery by Ketamine
Sunshine, Jacob	University of Washington	2016	MRTG-HSR	Trauma Anesthesia Care: an Analysis of Motor Vehicle Crash Management, Risk Factors and Costs
Lopez, Marcos	Vanderbilt University Medical Center	2016	MRTG-CT	The Effects of Perioperative Oxygenation on Endothelial Function
Gruenbaum, Shaun	Yale University School of Medicine	2016	MRTG-BS	Novel Mechanism of Glutamine Formation From Branched-Chain Amino Acids in Brain Areas of Astroglial Glutamine Synthetase Deficiency
Zanghi, Christine	University of Colorado Denver	2016	MRTG-BS	Anesthesia-Induced Developmental Neurotoxicity: the Role of Immature Microglia
Howard-Quijano, Kimberly	University of California, Los Angeles	2016	MRTG-BS	Spinal Cord Stimulation - Neuraxial Modulation of Ventricular Arrhythmias
Sdrulla, Andrei	Oregon Health and Science University	2016	MRTG-BS	Investigating the Neural Circuits of Spinal Cord Stimulation
Mikami, Maya	New York-Presbyterian Hospital (Columbia)	2016	MRTG-BS	Control of the airway smooth muscle cell cytoskeleton by gelsolin: a potential novel therapeutic target for bronchoconstrictive diseases
Fahy, Brenda	University of Florida Medical Center	2015	REG	Make it Stick: An Educational Model to Improve Long Term Retention
Woodworth, Glen	Oregon Health and Science University	2015	REG	Trajectory, Predictive Value and Significance of Milestone Achievement during Anesthesiology Training

Adams, Meredith	Medical College of Wisconsin	2015	REG	Creation and Validation of an Anesthesiology Pain Educational App: Delivering ABA Pain Content to the Millennial Learner
Maniker, Robert	New York-Presbyterian Hospital (Columbia)	2015	REG	Validation of an Objective, Practical and Real-Time Assessment of Regional Anesthesia Procedural Skills
Cronin, William	Walter Reed	2015	RFG	Validation of a volatile organic compound based breath test for pulmonary oxygen toxicity in an established swine ARDS model
Shaefi, Shahzad	Beth Israel Deaconess Medical Center	2015	MRTG-CT	The relationship between administered oxygen levels and arterial partial oxygen pressure to neurocognition in cardiac surgical patients
Kurien, Philip	University of California, San Francisco	2015	MRTG-BS	Accelerated Recovery of Circadian Rhythm and Monocyte Function
Umar, Soban	University of California, Los Angeles	2015	MRTG-BS	Role of the novel MicroRNA 125b-3p in combined pulmonary fibrosis and pulmonary hypertension
Patwardhan, Amol	University of Arizona Health Sciences	2015	MRTG-BS	TRPV1 antagonist for the treatment of intraoperative hypothermia and postoperative pain
Cropsey, Christopher	Vanderbilt University Medical Center	2015	REG	Effects of an Electronic Decision Support Tool on Team Performance During In-situ Simulation of Perioperative Cardiac Arrest
Rebel, Annette	University of Kentucky	2015	REG	Anesthesia Resident Skill Development Assessed by Competitive OSCE Event: Anesthesia Olympics
Goldhaber-Fiebert, Sara	Stanford University School of Medicine	2015	REG	Adoption of Emergency Manuals: Facilitators, Barriers, and Characteristics of Clinical Use
Matyal, Robina	Beth Israel Deaconess Medical Center	2015	REG	Fundamentals of Ultrasound Course with Verification of Proficiency
Qadri, Muhammad	University of North Carolina at Chapel Hill	2015	RFG	Assessing differential microglial activation states in acute and chronic pain
Song, Weifeng	University of Alabama at Birmingham	2015	RFG	Low Molecular Weight Hyaluronan Mediated Airway Hyperresponsiveness in Aspiration Induced Acute Lung Injury
Waldron, Nathan	Duke University School of Medicine	2015	RFG	Temporary autonomic blockade to prevent atrial fibrillation after cardiac surgery
Vu, Eric	Baylor College of Medicine	2015	RFG	Three-dimensional ST instability: Clinical evaluation of novel ST segment monitoring in single ventricle physiology
Lee, Helen	University of Illinois at Chicago	2015	MRTG-HSR	Improving Access to Care For the Pediatric Dental General Anesthesia Population
Berra, Lorenzo	Massachusetts General Hospital	2015	MRTG-CT	Stored Blood Transfusion and Nitric Oxide
Wagener, Brant	University of Alabama at Birmingham	2015	MRTG-BS	Mechanisms of Lung Immunosuppression after Traumatic Brain Injury
Yocum, Gene	New York-Presbyterian Hospital (Columbia)	2015	MRTG-BS	GABA-A alpha4 Subunit Mediates Lung Inflammation and Bronchoconstriction
Tawfik, Vivianne	Stanford University School of Medicine	2015	MRTG-BS	Monitoring and Modulating Microglial Cell Activation in Pain
Rhee, James	Massachusetts General Hospital	2015	MRTG-BS	Role of GAPDH in the Cardio-Metabolic Response to Ischemia
Shillcut, Sasha	University of Nebraska Medical Center	2014	GEMSSTAR	ECHOCARDIOGRAPHY GUIDED HEMODYNAMIC MANAGEMENT FOR ELDERLY SURGICAL PATIENTS
Hughes, Christopher	Vanderbilt University Medical Center	2014	GEMSSTAR	ROLE OF ENDOTHELIAL AND BRAIN INJURY IN ACUTE AND LONG-TERM BRAIN DYSFUNCTION
Bick, Julian	Vanderbilt University Medical Center	2014	REG	The Impact of Near Real-Time Continuous Feedback during Basic Transesophageal Echocardiography Training
Martinelli, Susan	University of North Carolina at Chapel Hill	2014	REG	Flipped Classroom Preferred Over Traditional Classroom in Resident Education
Karcz, Marcin	University of Rochester-Strong Memorial Hospital	2014	RFG	The role of antihistamines and nicotine metabolites in cardioprotection
Wanderer, Jonathan	Vanderbilt University Medical Center	2014	MRTG-HSR	Development of perioperative clinical pathways: Protective lung ventilation alerts for patients at risk of acute lung injury
Sun, Eric	Stanford University School of Medicine	2014	MRTG-HSR	The Economics of Chronic Pain Treatment
Saager, Leif	Cleveland Clinic	2014	MRTG-HSR	Development and Validation of a Computer Algorithm to Detect Artifact in Electronic Databases
Drewry, Anne	Washington University School of Medicine	2014	MRTG-CT	Impaired Immunity in Hypothermic Septic Patients
Smith, Heidi	Vanderbilt University Medical Center	2014	MRTG-CT	Delirium in critically ill infants and preschool-aged children: Bedside tool validation, epidemiology and associated outcomes
McKinstry-Wu, Andrew	University of Pennsylvania Medical Center	2014	MRTG-BS	Top-down or bottom-up: neuronal mechanism of alkylphenol anesthesia
Pan, Jonathan	University of California, San Francisco	2014	MRTG-BS	Dexmedetomidine renders neuroprotection via modulation of systemic and local immune responses following rodent spinal cord injury
Pearn, Matthew	University of California, San Diego	2014	MRTG-BS	Anesthetic toxicity: RhoGTPases, growth cone collapse, and axonal transport
Hudson, Andrew	University of California, Los Angeles	2014	MRTG-BS	Network mechanisms of general anesthesia
Stary, Creed	Stanford University School of Medicine	2014	MRTG-BS	Preserving Mitochondrial Function with microRNA-200c to Improve Stroke Outcome
Taylor, Norman	Massachusetts General Hospital	2014	MRTG-BS	The Role of GABAergic and Dopaminergic Neurons in the Periaqueductal Gray on the Descending Inhibition of Pain
Steppan, Jochen	Johns Hopkins University	2014	MRTG-BS	The Role of LOXL2 in Vascular Stiffness
Daneilsson, Jennifer	New York-Presbyterian Hospital (Columbia)	2014	MRTG-BS	Antagonism of the calcium-activated chloride channel TMEM16A: A novel target to treat bronchospasm
Lorinc, Amanda	Vanderbilt University Medical Center	2013	REG	Handover Tool Participatory Design and Educational Training Intervention to Improve Perioperative Neonatal Safety

Ritter Jones, Marsha	University of Wisconsin, Madison	2013	RFG	Cystitis-associated referred hyperalgesia: The role of intrathecal ACEA on substance P internalization
Chen, Catherine	University of California, San Francisco	2013	RFG	Unnecessary Preoperative Testing in Medicare Patients Undergoing Cataract Surgery
Wagener, Brant	University of Alabama at Birmingham	2013	RFG	PDE4 and IL-8-dependent Inhibition of cAMP-stimulated Alveolar Fluid Clearance
Udani, Ankeet	Stanford University School of Medicine	2013	RFG	The effectiveness of simulation-based deliberate practice versus a standard didactic curriculum on learning regional anesthesia
Tawfik, Vivianne	Stanford University School of Medicine	2013	RFG	Opioid signaling in CNS glia: implications for opioid analgesia and tolerance
Schonberger, Robert	Yale University School of Medicine	2013	MRTG-HSR	Integrating perioperative care into the treatment of hypertension.
Hua, May	New York-Presbyterian Hospital (Columbia)	2013	MRTG-HSR	Assessing end-of-life care needs among critically ill surgical patients
Johnson-Akeju, Oluwaseun	Massachusetts General Hospital	2013	MRTG-CT	Combined MR-PET, and High Density EEG Study of Dexmedetomidine.
Shahul, Sajid	Beth Israel Deaconess Medical Center	2013	MRTG-CT	Detecting Subclinical Myocardial Dysfunction in Preeclampsia
Storer, Kingsley	Weill Medical College of Cornell University	2013	MRTG-BS	Network mechanisms underlying propofol-induced loss of consciousness and amnesia
Kang, Sin	University of Iowa Hospital and Clinics	2013	MRTG-BS	Afferent mechanisms mediating reflex inhibition of phrenic motor output after upper abdominal surgery
Yu, Xiaobing	University of California, San Francisco	2013	MRTG-BS	Treating neuropathic pain with spinal cord transplants of genetically modified human pluripotent stem cell-derived GABAergic inhibitory neurons
Kathiriya, Irfan	University of California, San Francisco	2013	MRTG-BS	Gene Regulation during Human Cardiac Differentiation
Heifets, Boris	Stanford University School of Medicine	2013	MRTG-BS	Improving deep brain stimulation through targeted synaptic modification
Martin, Martin	Mayo Clinic Rochester	2013	MRTG-BS	Effect of Sex Steroids on Pulmonary Hypertension
Bagchi, Aranya	Massachusetts General Hospital	2013	MRTG-BS	Modulation of the Bone Morphogenetic Protein - Hecpudin Axis can Reduce the Severity of Acute Inflammation and Lung Injury
Brown, Charles	Johns Hopkins University	2012	GEMSSTAR	The impact of impaired cerebral autoregulation on postoperative delirium
Banerjee, Arna	Vanderbilt University Medical Center	2012	REG	Factors Contributing to Global Subjective Clinical Assessment
Raphael, Darren	University of California, Irvine	2012	REG	Simulation Based Interviews for Selection of Anesthesiology Residency Candidates
Ramsingh, Davinder	University of California, Irvine	2012	REG	Application of a Comprehensive Perioperative Ultrasound Curriculum for Anesthesiologists:Bringing the Perioperative Physician out of the Guessing Game
Mariano, Edward	Palo Alto Institute for Research and Education	2012	REG	An Efficacy Study of Simulation-Based Training on Practicing Anesthesiologists' Acquisition of Ultrasound-Guided Perineural Catheter Insertion Skills
Woodworth, Glenn	Oregon Health and Science University	2012	REG	Creation & Validation of Computer-based Knowledge Assessment Tool for Anatomy & Ultrasound Interpretation for Ultrasound Guided Regional Anesthesia
Bustamante, Sergio	Cleveland Clinic	2012	REG	Evaluation of A Novel Portable Simulator, The Teaching On Wheels Cart (TowCart), as a training tool For Anesthesiology Residents In lung isolation
Mitchell, John	Beth Israel Deaconess Medical Center	2012	REG	Enhancing Feedback on Professionalism and Interpersonal Communication in Anesthesia Residency Programs
Schenning, Katie	Oregon Health and Science University	2012	RFG	Ischemic Injury to Glomerular Endothelium: Mechanism of Hyperglycemic Protection
Woodbury, Anna	Emory University School of Medicine	2012	RFG	Neonatal Pain Results in Neuro-Psychiatric Disorders: Honokiol's Role in Treatment and Prevention
Quinones, Quintin	Duke University School of Medicine	2012	RFG	Organ Protective Mechanisms Invoked in Mammalian Hibernation
Xu, Jijun	Cleveland Clinic	2012	RFG	Role of Cannabinoid Receptor 2 in Complex Regional Pain Syndrome I (CRPS I)
Tighe, Patrick	University of Florida Medical Center	2012	MRTG-CT	Learning from Pain: Application of Machine Learning Classifiers to Predict Severe Acute Postoperative Pain
Fernandez-Bustamante, Ana	University of Colorado Denver	2012	MRTG-CT	Heme Oxygenase-1 (HO-1) Induced M2 Macrophage Activation Prevents Acute Lung Injury (ALI) and Aging-Related ALI
Austin, Thomas	Vanderbilt University Medical Center	2012	MRTG-BS	Effect of Neuronal K-Cl Cotransporter KCC2 Activation on Pain Perception
Cereda, Maurizio	University of Pennsylvania Medical Center	2012	MRTG-BS	Regional Assessment Of Ventilator Induced Lung Injury Using Functional Imaging
Prakash, Arun	University of California, San Francisco	2012	MRTG-BS	Investigating the Role of Innate Immune Cells and Pathways in Ventilated Lung Ischemia Reperfusion (IR) Injury
Deiner, Stacie	Icahn School of Medicine at Mount Sinai	2011	GEMSSTAR	The Geriatric Surgical Patient: Stress, Anesthetics, and Functional Outcomes
Diachun, Carol Ann	University of Rochester-Strong Memorial Hospital	2011	REG	Development and Evaluation of Academic Electronic Portfolio for Anesthesia Faculty
McEvoy, Matthew	Medical College of Wisconsin	2011	REG	Can Identification of Personality Types and High Fidelity Simulation Training Improve Clinical Daily Practice?
Ellinas, Herodotos	Medical College of Wisconsin	2011	REG	Can Identification of Personality Types and High Fidelity Simulation Training Improve Clinical Daily Practice?
Riveros Perez, Nelson	Cleveland Clinic	2011	REG	Evaluation of Multisource Feedback in Professionalism for Anesthesia

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Sykes, Kenneth	Washington University School of Medicine	2011	RFG	The Effect of mGluR5 Positive Allosteric Modulator CDPBB on Nociceptive Sensitivity in Mice
Waterman, Ruth	Ochsner Clinic Foundation	2011	RFG	Immunosuppressive Mesenchymal Stem Cells (MSC2): A New Treatment for Diabetic Peripheral Neuropathy
Billings, Frederic	Vanderbilt University Medical Center	2011	MRTG	The Effect of Atorvastatin on Renal Oxidant Injury in Patients Undergoing Cardiac Surgery
Neuman, Mark	University of Pennsylvania Medical Center	2011	MRTG	Anesthesia Technique and Outcomes After Hip Fracture: Instrumental Variable Analysis
Kor, Daryl	Mayo Clinic Rochester	2011	MRTG	Risk Prediction and Mechanistic Evaluation of Postoperative Acute Lung Injury
Hartman, William	Mayo Clinic Rochester	2011	MRTG	Brain-Derived Neurotrophic Factor in Hypoxia-Induced Pulmonary Hypertension
Bachiller, Patricia	Massachusetts General Hospital	2011	MRTG	Mechanisms of TGFbeta Modulation of Development in the Injured Newborn Lung
Aslakson, Rebecca	Johns Hopkins University	2011	MRTG	Crafting a Palliative Care Intervention for Surgical Intensive Care Unit Patients
Ward, Christopher	Children's Hospital of Philadelphia	2011	MRTG	Role of Neuronal Maturation in Anesthesia-Induced Apoptosis
Palanisamy, Arvind	Brigham and Women's Hospital	2011	MRTG	Fetal Neurodevelopment after Maternal Anesthesia
Bick, Julian	Vanderbilt University Medical Center	2010	REG	Incorporation of Basic Transesophageal Echocardiography Training into Anesthesiology Residency
Stiegler, Marjorie	University of North Carolina at Chapel Hill	2010	REG	Reflective Practice in Action: Impact of a Self-guided Assessment Tool for Anesthesiologists' Nontechnical and Cognitive Skills
Nemergut, Michael	Johns Hopkins University	2010	RFG	Pediatric Neurotoxicity of General Anesthetics
Kudchadkar, Sapna	Johns Hopkins University	2010	RFG	The Impact of Pain and Pain Management on the Quality and Duration of Sleep in Mechanically Ventilated Children
Ngamprasertwong, Pornswan	Cincinnati Children's Hospital Medical Center	2010	RFG	Effect of Maternal Anesthesia on Fetal Outcomes in Sheep Model
Proekt, Alexander	Weill Medical College of Cornell University	2010	MRTG	Neurophysiological Basis of Emergence from General Anesthesia
Palanca, Ben Julian	Washington University School of Medicine	2010	MRTG	Neural Correlates of Anesthetic-Induced Unconsciousness in fMRI and EEG Signals
Hughes, Christopher	Vanderbilt University Medical Center	2010	MRTG	The Role of Endothelial Dysfunction in Intensive Care Unit Delirium and Long-Term Cognitive Impairment
Guan, Zhonghui	University of California, San Francisco	2010	MRTG	Contribution of Histone Acetylation in Inflammatory Pain
Kistler, Erik	University of California, San Diego	2010	MRTG	A Novel Strategy for the Identification and Treatment of Gut-Derived Inflammatory Mediators Responsible for the Pathogenesis of Circulatory Shock
Wang, Jing	New York University Medical Center	2010	MRTG	Chronic Pain Increases Calcium Permeable AMPA Receptors, Which in Turn Regulate Anhedonia and Vulnerability to Addiction
Stucke, Astrid	Medical College of Wisconsin	2010	MRTG	Opioid-Sensitivity of the PreBötzing Complex in Young and Adult Rabbits
Lee, Jennifer Kim	Johns Hopkins University	2010	MRTG	The Effects of Pediatric Cardiac Arrest, Hypothermia, and Re-warming on Cerebrovascular Autoregulation
Muehlschlegel, Jochen	Brigham and Women's Hospital	2010	MRTG	Identification of Cardiac Specific ANRIL Splice Variants
Fehr, James	Washington University School of Medicine	2009	REG	Skills in Pediatric Anesthesia: A Simulation-Based Assessment Program
McEvoy, Matthew	Medical University of South Carolina	2009	REG	The Effects of Cognitive Aids on Improving Performance in Simulated High-Stakes Perioperative Events
Fairbanks, Stacy	Oregon Health and Science University	2009	RFG	Mechanisms of Sex Differences in Neuronal Survival
Lee, Jennifer Kim	Johns Hopkins University	2009	RFG	Cerebrovascular Autoregulation after Pediatric Cardiac Arrest
Houseman, Benjamin	University of California, San Francisco	2009	MRTG	Pharmacologic Dissection of the Phosphoinositide-3-Kinase Pathway in Cardiac Preconditioning and Postconditioning
Chander, Divya	Stanford University School of Medicine	2009	MRTG	Probing the Neural Correlates of Consciousness Using Optogenetics
James, Michael	Duke University School of Medicine	2009	MRTG	Pharmacogenomic Influence of ApoE and Mimetic Peptide on Neurologic Outcomes as a Paradigm for Targeted Therapeutic Development in a Murine Model of Intracerebral Hemorrhage
Bajic, Dusica	Boston Children's Hospital	2009	MRTG	Age Differences of Brain Circuits Mediating Morphine Effect and Development of Morphine Tolerance
Minehart, Rebecca	Massachusetts General Hospital	2008	REG	How Am I Doing: A Novel Approach to Teaching Faculty Skills on Giving Feedback to Trainees
Suresh, Santhanam	Ann and Robert H. Lurie Children's Hospital of Chicago	2008	REG	Regional Anesthesia Education in Infants: A Novel Computer-based Visual Learning Techniques to Improve Confidence and Performance in Anesthesia Residents
Gallos, George	New York-Presbyterian Hospital (Columbia)	2008	MRTG	Endogenous GABA-A Channels on Airway Smooth Muscle: A Novel Therapeutic Target in Asthma
Bartz, Raquel	Duke University School of Medicine	2008	MRTG	Evaluation of the Role the Mitochondrial DNA Repair Enzyme, OGG1, and Nuclear Coactivators, PGC-1alpha, and PRC Play in Mitochondrial Biogenesis of Sepsis
Meissner, Konrad	Washington University School of Medicine	2008	MRTG	Visualizing Cerebral Opioid Transport and P-glycoprotein Function
Liu, Renyu	University of Pennsylvania Medical Center	2008	MRTG	A Structural Approach to the Human mu-receptor
Spofford, Christina	University of Iowa Hospital and Clinics	2008	MRTG	Neurotrophic Factor Expression in Post-Operative Pain
Eckle, Tobias	University of Colorado Denver	2008	MRTG	Myocardial Ischemic Preconditioning through Hypoxia Inducible Factor (HIF)-1alpha

Novalija, Jutta	Medical College of Wisconsin	2008	MRTG	Anesthetic Protection of Endothelial Function from Ischemia-Reperfusion Injury in Humans
Mudumbai, Sesh	Stanford University School of Medicine	2007	REG	Benchmarking Clinical Skills of Third Year Anesthesiology Residents Using 360 Multisource Ratings and High-Fidelity Simulation
Cheng, Sara	University of Colorado Denver	2007	RFG	Goal-directed therapy for VTE prophylaxis in the surgical ICU
Wunsch, Hannah	New York-Presbyterian Hospital (Columbia)	2007	RFG	Evaluation of Long-term Outcomes for Intensive Care Patients
Ehrenfeld, Jesse	Massachusetts General Hospital	2007	RFG	Automatic Detection and Machine Assisted Correction of Intraoperative Monitoring Gaps During Anesthesia
Nagele, Peter	Washington University School of Medicine	2007	MRTG	Pharmacogenetics of Adverse Outcomes After Nitrous Oxide Anesthesia
Lee, Jae-Woo	University of California, San Francisco	2007	MRTG	Mesenchymal Stem Cells in the Treatment of Acute Lung Injury in Primary Cultures of Human Alveolar Epithelial Type II Cells and in the Ex vivo Perfused Human Lung
Moeller-Bertram, Tobias	University of California, San Diego	2007	MRTG	Pain Perception in Post Traumatic Stress Disorder
Sadhasivam, Senthilkumar	Cincinnati Children's Hospital Medical Center	2007	MRTG	Perioperative Child and Adult Behavioral Interactions and Outcomes
Avidan, Michael	Washington University School of Medicine	2007	CFM	BAG Recall: BIS or Anesthesia Gas to Reduce Explicit Recall
Mashour, George	University of Michigan	2007	CFM	A Prospective, Randomized, Controlled Trial Comparing Bispectral Index Monitoring to Electronic Alerts for Prevention of Awareness During Anesthesia in the General Population
Liu, Lixin	State University of New York, Stony Brook	2007	RSG	Age-Associated Changes in Cardiac Gene Expression Following Anesthetic Preconditioning
Hooten, W.	Mayo Clinic Rochester	2007	RSG	Temporal Changes in Pain Threshold and Tolerance Among Chronic Pain Patients Following Opioid Withdrawal
Istaphanous, George	Cincinnati Children's Hospital Medical Center	2007	RSG	Anesthesia-Induced Neuronal Cell Death in the Developing Brain
Fox, Amanda	Brigham and Women's Hospital	2007	RSG	Genotypic Influences on Postoperative B-Type Natriuretic Peptide Concentrations and Ventricular Dysfunction with Coronary Artery Bypass Graft Surgery
Hagberg, Carin	University of Texas Health Sciences Center, Houston	2007	REG	Anticipation of the Difficult Airway: The Preoperative Airway Assessment Form as an Educational and Quality Improvement Tool
Wilkes, Denise	University of Texas Medical Branch at Galveston	2007	MRTG	Viral Transfer of the Micro-Opioid Receptor Gene to the Peripheral Nervous System: A Genetic Approach to the Treatment of Pain
Eltzschig, Holger	University of Colorado Denver	2007	MRTG	Role of A2B Adenosine Receptor in Vascular Leakage During Hypoxia
Ishizawa, Yumiko	Massachusetts General Hospital	2007	MRTG	Thalamocortical Neural Processing and Anesthetic-Induced Antioiception
Brady, Ken	Johns Hopkins University	2007	MRTG	Measuring Autoregulation to Improve the Care of Children with Traumatic Brain Injury
Lighthall, Geoffrey	Stanford University School of Medicine	2006	REG	Evaluating the Impact of Educational Programs on the Management of Septic Shock Using Human Patient Simulation
Sall, Jeffrey	University of California, San Francisco	2006	MRTG	Volatile Anesthetic Toxicity in Hippocampal Derived Progenitor Cells
Carroll, Ian	Stanford University School of Medicine	2006	MRTG	Mechanisms of Analgesic Response During IV Lidocaine Infusions in Neuropathic Pain Patients
Williams, James	Massachusetts General Hospital	2006	MRTG	Cortical - Hippocampal Interactions During Propofol Administration
Easley, R.	Johns Hopkins University	2006	MRTG	Molecular Mechanisms of Regional Lung Dysfunction in Ventilator-Associated Lung Injury
Klass, Markus	Emory University School of Medicine	2006	MRTG	Stem Cells for the Treatment of Neuropathic Pain
Saadat, Haleh	Yale University School of Medicine	2006	REG	Implementation and Testing of a Wellness Program Conducted with Anesthesiology Residents at Yale
Yanofsky, Samuel	Children's Hospital Los Angeles	2006	REG	Examination of a Model Curriculum for Teaching the ACGME Competencies of Professionalism and Interpersonal and Communication Skills in a Pediatric Anesthesiology Fellowship
Kinsky, Michael	University of Texas Medical Branch at Galveston	2006	MRTG	Pharmacologic Modulation of Fluid Therapy
Solt, Ken	Massachusetts General Hospital	2006	MRTG	Modulation of 5-HT3A Receptor Kinetics by Inhaled Anesthetics
Sites, Brian	Dartmouth-Hitchcock Medical Center	2005	REG	The Design and Validation of a Training Intervention Which Accelerates the Novice to Expert Performance and Limits Risks to Patients for Ultrasound-Guided Regional Anesthesia
McEvoy, Matthew	Medical University of South Carolina	2005	RFG	Modulation of Proteolytic Pathways by Aprotinin: Myocardial Protection in Ischemia-Reperfusion
Rollins, Mark	University of California, San Francisco	2005	MRTG	A Comparison of Tissue Oxygen Levels in Multiple Organs During Isovolemic Hemodilution with Right and Left-shifted Hemoglobin Based Blood Substitutes
Niemann, Claus	University of California, San Francisco	2005	MRTG	The Effect of Mild Hypothermia on Hepatic Cellular Metabolism and Transcription Factor Expression in Obese Rats During Ischemia Reperfusion
Kanevsky, Max	Stanford University School of Medicine	2005	MRTG	Anesthetic Preconditioning in BK Channel Knockout Mice
Murray, David	Washington University School of Medicine	2005	REG	Acute Care Skills in Anesthesia Practice: A Simulation-Based Performance Assessment

Pandharipande, Pratik	Vanderbilt University Medical Center	2005	MRTG	A Randomized, Double-Blind Trial in Ventilated ICU Patients Comparing Treatment with an Alpha2 Agonist Versus a Gamma Aminobutyric Acid (GABA)-Agonist to Determine Delirium Rates, Efficacy of Sedation and Analgesia, and Clinical Outcomes Including Duratio
Francis, David	University of Texas Southwestern Medical Center	2005	MRTG	Elucidating the Mechanistic Basis of Acetazolamide's Action in Disorders of Membrane Excitability:Studies in a Mouse Model of Periodic Paralysis
Ilfeld, Brian	University of Florida Medical Center	2005	MRTG	Perineural Local Anesthetic Infusion Following Total Knee and Hip Replacement
Stratmann, Greg	University of California, San Francisco	2005	MRTG	The Role of Neurogenesis in the Young and Old Brain in Mediating Cognitive Outcome Following Anesthesia
Lee, Lorri	University of Washington	2004	RSG	Effects of Hypovolemia, Deliberate Hypotension, Anemia and Venous Congestion on Optic Nerve Blood Flow in the Pig
Xie, Zheng	University of Chicago	2004	RSG	Molecular Mechanisms for Catecholamine Secretion by Anesthetics
Kaczka, David	Johns Hopkins University	2004	RSG	Noninvasive Determination of Mechanical Heterogeneity in a Canine Model of Acute Lung Injury
Edler, Alice	Stanford University School of Medicine	2004	REG	The Use of Discussion Questions to Foster Critical Thinking Skills in Human Patient Simulator Education
Randel, Gail	Northwestern University Feinberg School of Medicine	2004	REG	Effectiveness of a Difficult Airway Program Using the Intranet and a High Fidelity Human Patient Simulation for Departmental Training
Pian-Smith, May	Harvard Medical School	2004	REG	Teaching Residents to Question and Challenge: An Experiential Approach
Benzinger, George	Washington University School of Medicine	2004	MRTG	Structural Correlates Underlying Beta Subunit-Mediated Inactivation in Large-Conductance, Calcium-Activated Potassium Channels
Faberowski, Lisa	University of Colorado Denver	2004	MRTG	The Effect of Anesthetics on the Developing Brain: Is It a Function of Age?
Kaynar, A. Murat	University of Pittsburgh Medical Center	2004	RTG	The Role of Matrix Metalloproteinases and Neutrophil Elastase in the Pathophysiology of Ventilator Induced Lung Injury
Kelz, Max	University of Pennsylvania Medical Center	2004	RTG	Hypocretin Neurons and Hypnosis: A Novel Site for Inhaled Anesthetic Action
Stuedel, Wolfgang	University of Colorado Denver	2004	RTG	HMG-CoA-reductase inhibitors and pulmonary hypertension
Pryor, Kane	Weill Medical College of Cornell University	2004	RSG	Resistance of Negative Emotional Memory to GABA Drug Effect
Karan, Suzanne	University of Rochester-Strong Memorial Hospital	2004	RSG	Validation of a Method to Predict Sedation Induced Upper Airway Obstruction
Pabelick, Christina	Mayo Clinic Rochester	2004	RSG	Regulation of Sarcoplasmic Reticulum Ca ²⁺ Stores in Airway Smooth Muscle: The Role of Cyclic Nucleotides
Lombard, Frederick	Duke University School of Medicine	2004	RSG	The Role of Platelet Derived Growth Factor AB in Vasospasm following Subarachnoid Hemorrhage in the Rabbit
Tebich-Cymbor, Susan	Cleveland Clinic	2004	REG	Does Problem-Based Learning Improve Performance on Year One Anesthesiology Residents on Oral Practice Examinations?
Brady, Ken	Johns Hopkins University	2004	RFG	The Role of Cytosolic Phospholipase A ₂ - α in Stroke Pathogenesis
Lee, Chanhung	University of California, San Francisco	2003	RTG	Role of Matrix Metalloproteinase in Cerebral Angiogenesis
Mackey, Sean	Stanford University School of Medicine	2003	RTG	Imaging Neural Systems in Complex Regional Pain Syndrome
Musch, Guido	Massachusetts General Hospital	2003	RTG	Regional Effects of Alveolar Recruiting Strategies on Gas Exchange and Cellular Inflammation in Acute Lung Injury
Cotten, Joseph	Massachusetts General Hospital	2003	RTG	PIP ₂ and Volatile Anesthetic Regulation of Tandem Pore Potassium Channels
Campagna, Jason	Massachusetts General Hospital	2003	RTG	Characterization of the Distribution and Function of DL-M, a Novel Gene of the Dragon Family, at the Neuromuscular Junction
Ibla, Juan	Harvard Medical School	2003	RTG	Pulmonary Barrier Function:Hypoxic Modulation by the Ecto-5'-nucleotidase (CD73)
Cucchiari, Giovanni	Children's Hospital of Philadelphia	2003	RTG	Neurophysiological Basis of Epibatidine-ABT-594 Mediated Analgesia
Sun, Jian-Zhong	Thomas Jefferson University-Jefferson Medical College	2003	RSG	Role of Inducible Nitric Oxide in β -adrenergic Stimulation Induced Myocardial Ischemic Injury in the Aging Heart
Grimes, David	University of Rochester-Strong Memorial Hospital	2003	REG	Designing a Virtual Reality Airway Simulator and Testing it on Residents
Horlocker, Terese	Mayo Clinic Rochester	2003	REG	Virtual Anatomy of Regional Anesthesia:A Pilot Study Utilizing the Popliteal Fossa Block
Zhang, Li-Ming	University of Pittsburgh Medical Center	2003	RTG	Chemical Biology of S-Nitroso-Albumin in Live Pulmonary Endothelial Cells
Akca, Ozan	University of Louisville	2003	RTG	The Role of Hypercapnia In Preconditioning of Brain
Varadarajan, Srinivasan	Medical College of Wisconsin	2003	RTG	Anesthetic Preconditioning-Novel Role of Cardiac Mitochondrial Ca ²⁺ -Activated K ⁺ Channels
Chini, Eduardo	Mayo Clinic Rochester	2003	RTG	Role of the Accessory Protein FKB12 in the Development of Malignant Hyperthermia Phenotype
Gerhardt, Mark	Ohio State University	2003	RSG	Acute Beta-Adrenergic Receptor Desensitization during Left Ventricular Assist Device Support in an Animal Model of Ischemic Heart Failure

Martin, David	Mayo Clinic Rochester	2003	RSG	Adrenergic Sweating in Painful Neuropathies
Moretti, Eugene	Duke University School of Medicine	2003	RSG	Genetic Polymorphisms and Their Relationship to Sepsis in the Surgical Patient
Zollo, Raymond	University of Rochester-Strong Memorial Hospital	2003	REG	Using Standardized Patients to Investigate Patient Centered Preoperative Communication
Farokhzad, Omid	Brigham and Women's Hospital	2003	RFG	Nucleic Acid Ligands as Escort Molecules in Targeted Therapy
Li, Yunping	Beth Israel Deaconess Medical Center	2002	RTG	Myometrial Quiescence and Preterm Labor--Toward a Molecular Understanding
Brewer, Randall	Duke University School of Medicine	2002	RSG	Intravenous Magnesium Sulfate in Subarachnoid Hemorrhage: Analysis of the Effects of Hypermagnesemia Upon Cerebrospinal Fluid Magnesium Concentration
Chu, Larry	Stanford University School of Medicine	2002	RFG	Measurement of Tolerance and Hyperalgesia in Pain Patients on Chronic Opioid Therapy
Tong, Chuanyao	Wake Forest University School of Medicine	2002	RTG	Visceral Pain of Uterine Cervical Distension:Role of COX
Body, Simon	Harvard Medical School	2002	RTG	Genotypic Influences on Adverse Bleeding and Thrombotic Outcomes After Coronary Artery Bypass Surgery
Mueller, Rashmi	University of Texas Medical Branch at Galveston	2002	RSG	The Effect of Zinc Chelation on Neurobehavioral Outcome After Transient Global Cerebral Ischemia in Rabbits
Angst, Martin	Stanford University School of Medicine	2002	RSG	Differential Rate for Development of Acute Tolerance to Opioid Induced Analgesia, Respirator Depression, and Sedation
Jankowski, Christopher	Mayo Clinic Rochester	2002	RSG	Preoperative Cognitive Dysfunction and Postoperative Delirium in Elderly Orthopedic Surgical Patients
Abouleish, Amr	University of Texas Medical Branch at Galveston	2002	REG	The Impact of Longer Surgical Durations and Inefficient Staffing Scheduling on the Staffing Costs of Two Academic Anesthesiology Departments
Raphael, David	University of Southern California	2002	REG	A 3-Dimensional Teaching Atlas of the Brachial Plexus Using MRI Neurography
Tanner, Jonathan	University of Pennsylvania Medical Center	2001	RTG	High-resolution structural investigation of how membrane proteins are altered by inhaled anesthetic agents
Sarantopoulos, Constantine	Medical College of Wisconsin	2001	RSG	Glucocorticoid Effects on Calcium Currents and Excitability in Injured Sensory Neurons
Sreeram, Gautam	Duke University School of Medicine	2001	RSG	A Pilot Investigation to Assess Therapeutic Efficacy of DDAVP in Modulating Shear-Mediated Platelet Dysfunction after Cardiac Surgery
Karan, Suzanne	University of Rochester-Strong Memorial Hospital	2001	RFG	Effects of Pain and Audiovisual Stimulation on Opioid Induced Depression of the Hypoxic Ventilatory Response
Ririe, Douglas	Wake Forest University School of Medicine	2001	RSG	The Role of Development in Responses to Acute and Chronic Pain
Lau, Wei	University of Michigan	2001	RSG	Elucidation of the Molecular Mechanism by Which Atorvastatin (Lipitor) Diminishes the Ability of Clopidogrel (Plavis) To Interfere with Platelet Aggregation
Kras, Joseph	Washington University School of Medicine	2001	REG	An Anesthesia Kills Assessment Program for Residents
Hill, Steven	Duke University School of Medicine	2001	NIA-CL	The Impact of Paravertebral Nerve Blockade, On Pain, Inflammation And Neurocognitive Outcome Following Thoracoscopic Surgery
Liu, Hong	University of California, Davis	2001	NIA-BS	Anesthetic Preconditioning:Effects of pH, Na and Ca in Newborn Hearts During Ischemia and Reperfusion
Angelotti, Timothy	Stanford University School of Medicine	2001	NIA-BS	Genetic Manipulation of Mice for the Analysis of in vivo Adrenergic Receptor Pharmacology and Physiology
Wang, Shu-Ming	Yale University School of Medicine	2000	RSG	Postoperative Nausea and Vomiting in Children:An Alternative Treatment Modality
Topf, Norbert	Weill Medical College of Cornell University	2000	RFG	Volatile Anesthetics and Agonist Efficacy at GABA _A -receptors
Zuo, Zhiyi	University of Virginia	2000	NIA-BS	Inhalational anesthetics and glutamate transporters
Sandberg, Warren	Massachusetts General Hospital	2000	NIA-BS	Identification and Characterization of Anesthetic Binding Sites on Protein Kinases C
Grocott, Hilary	Duke University School of Medicine	2000	NIA-BS	The Effect of Temperature on Cognitive Impairment and Cerebral Inflammation Following Cardiopulmonary Bypass in the Rat
Sivarajan, Murali	Yale University School of Medicine	2000	EDUC	Peer Evaluation of Teaching as a Tool to Improve Teaching Skills of Clinician-Educators
Sinclair, David	University of Pittsburgh Medical Center	2000	RSG	Driver Fatigue and Simulated Driving after Ambulatory Anesthesia
Lesh, Ryan	New York-Presbyterian Hospital (Columbia)	2000	RSG	Rho G-Proteins and Airway Smooth Muscle Proposed
Dalman, Friedrich	Washington University School of Medicine	2000	NIA-BS	Mechanisms of opioid tolerance in CNS neurons
Mack, Patricia	Weill Medical College of Cornell University	2000	CRSG	The Effect of Intraoperative Hypothermia on the Cerebrospinal Fluid Cytokine Response in Intracranial Aneurysm Surgery
Floyd, Thomas	University of Pennsylvania Medical Center	2000	CRSG	Perfusion MRI and Neurologic Injury Associated with Cardiopulmonary Bypass
Leighton, Barbara	Weill Medical College of Cornell University	1999	RSG	Mechanisms of Epidural-Associated Labor Slowing
Kurz, Andrea	Washington University School of Medicine	1999	RSG	Does Nitrous Oxide Increase the Incidence of Surgical Wound Infection and Prolong Hospitalization?
Joshi, Shailendra	New York-Presbyterian Hospital (Columbia)	1999	RSG	Nitrodergic Regulation of Cerebrovascular Tone

Approved FAER Awards
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Culley, Deborah	Harvard Medical School	1999	RSG	Aging and Postanesthetic Cognitive Dysfunction
Kimbro, J.	University of California, San Diego	1999	NIA-BS	Spreading Depression-Induced Preconditioning of the Brain
Winters, Bradford	Johns Hopkins University	1999	NIA-BS	Abnormal Vasoreactivity in the ob/ob Mouse
Chao, Wei	Massachusetts General Hospital	1999	NIA	Role of Insulin-like Growth Factor-I in Preventing Cardiomyocyte Apoptosis
Njoku, Dolores	Johns Hopkins University	1999	NIA	Volatile Anesthetics and NALT-Induced Tolerance
Donahue, Brian	Vanderbilt University Medical Center	1999	CRSG	The Role of Genetic Polymorphisms in Cardiac Surgery Outcome
Zollo, Raymond	University of Rochester-Strong Memorial Hospital	1999	RFG	The effect of antisense PKC- ζ knockdown on neuropathic pain
Wischmeyer, Paul	University of Chicago	1999	RFG	The Effects of Glutamine on Induction of the Stress Resposne to Improve Outcome from Sepsis
Todorovic, Slobodan	Washington University School of Medicine	1999	NIA	Voltage-gated Ca ²⁺ Channels in Sensory Neurons as Targets for Anesthetic and Analgesic Agents
Miller-Hance, Wanda	University of California, San Francisco	1999	NIA	Impact of Intraoperative Transesophageal Echocardiography on Anesthetic and Surgical Management of Pediatric Patients with Congenital and Acquired Heart Disease
Lockhart, Ellen	Duke University School of Medicine	1999	NIA	Progesterone and as Endogenous Neuroprotectant
Tung, Avery	University of Chicago	1998	RSG	The Effects of Deep Nighttime Sedation on Restorative Sleep in Rats
Alkire, Michael	University of California, Irvine	1998	RSG	The Role of the Amygdala in Anesthetic-Induced Amnesia
Monitto, Constance	Johns Hopkins University	1998	RSG	Molecular Mechanisms of Cachexia
Waters, Jonathan	Cleveland Clinic	1998	REG	Models of Expert Performance in Anesthesiology
Cucchiario, Giovanni	Children's Hospital of Philadelphia	1998	FLW	Inducible Nitric Oxide Synthase Activity After Hyperoxia and Plasma Levels of S-Nitrosothiols in Rats Exposed to Hyperoxia
Smith, Brian	Stanford University School of Medicine	1998	EDUC	Development of a Novel Training Course on Cardiac Anesthesia
Jevtovic-Todorovic, Vesna	Washington University School of Medicine	1998	NIA	NMDA Receptor Properties of the Anesthetic Nitrous Oxide
McDowell, Thomas	University of Wisconsin, Madison	1998	NIA	Mechanisms of Analgesia in Primary Nociceptive Neurons
Tsang, Brian	University of Mississippi Medical Center	1998	NIA	Spinal Opioid Receptor and the Corresponding mRNA Regulation upon the Development of Tolerance to Intrathecal Opioids
Morey, Timothy	University of Florida Medical Center	1998	NIA	Modulation of triggered activity by intravenous anesthetics in rabbit isolated ventricular myocytes: Mechanisms and clinical implications
Schumacher, Mark	University of California, San Francisco	1998	NIA	The Role of Capsaicin Receptors in Nociception
Hecker, James	University of California, Davis	1998	NIA	Transient Expression of Intracellular Proteins for Pre-Operative CNS Protection
Lang, John	University of Alabama at Birmingham	1998	NIA	Carbon Dioxide - Mediated Amplification of Pulmonary Inflammation: Free Radical Interactions
Baker, Keith	Massachusetts General Hospital	1998	NIA	The Role of the Cardiac Pacemaker Current, I _h , in Maintianing and Regulating the Heart Rate
Collard, Charles	Brigham and Women's Hospital	1998	NIA	Reoxygenation of Hypoxic Human Endothelial Cells Activates the Lectin Complement Pathway
Clark, David	University of Washington	1997	RSG	Regulation of Expression of Potassium Ion Channels by Opiates
Roth, David	University of California, San Diego	1997	RSG	Increased Adenylylcyclase Expression and Cardiac Function
Mittman, Scott	Johns Hopkins University	1997	RSG	Selective Expression of Na ⁺ Channel α -subunit Isoforms on Nociceptors
Patterson, Andrew	Stanford University School of Medicine	1997	RFG	The Beneficial Role of β -Adrenergic Receptor Blocking Agents in the Treatment of Congestive Heart Failure: Examination of the Molecular Mechanisms of Action
Harwood, Timothy	Wake Forest University School of Medicine	1997	EDUC	Computer Assisted Instruction versus Traditional Lecture: Short-and Long-Term Knowledge Retention
Egan, Talmage	University of Utah Medical Center	1997	CRSG	Quantitative Pharmacodynamic Analysis of Hypnotic and Opioid Interactions in Volunteers
Macario, Alex	Stanford University School of Medicine	1997	CRSG	Patient Preferences for Postoperative Outcomes
Cronin, Arthur	Penn State University-Milton S. Hershey Medical Center	1997	CRSG	Melatonin Therapy for Postoperative Sleep Disturbance and Hypoxia
Bigatello, Luca	Massachusetts General Hospital	1997	CRSG	Phosphodiesterase Blockade with Intravenous Dipyridamole during Nitric Oxide Inhalation in the Acute Respiratory Distress Syndrome: a Dose-Response Study
Steckner, Karen	Cleveland Clinic	1997	REG	Can Interative Instruction using Patient Simulation Improve Clinical Teaching of Anesthesiology Residents?
Antognini, Joseph	University of California, Davis	1997	NIA	The Effect of Differential Isoflurane Delivery to Brain and Spinal Cord on Inhibitory and Excitatory Output From the Brain
Flood, Pamela	New York-Presbyterian Hospital (Columbia)	1997	NIA	General Anesthetic Activity at Neuronal Nicotinic Acetylcholine Receptors

Wong, Gilbert	Mayo Clinic Rochester	1997	NIA	The Effect of Neurolytic Celiac Plexus Block on Pain Relief, Quality of Life, and Survival in Patients with Pancreatic Cancer
Meiler, Steffen	Massachusetts General Hospital	1997	NIA	The Pickwick Locus in Zebrafish: A Proposed Model of Cardiac Cell Differentiation by Inductive Interaction
Hunter, Keith	Howard University Hospital	1997	NIA	Regulation of Heme Oxygenase in Response to Acute Lung Injury and Sepsis
Benveniste, Helene	Duke University School of Medicine	1997	NIA	In vivo Magnetic Resonance microscopy of continuous spinal anesthesia: Mechanisms of local anesthesia neurotoxicity
Lennon, Paul	Brigham and Women's Hospital	1997	NIA	Mechanisms of Vascular Injury Following Complement Activation
Lin, Jim	University of Chicago	1997	FLW	Mechanisms of Preconditioning Protection Against Ischemic Injury
Gyulai, Ferenc	University of Pittsburgh Medical Center	1997	NIA	Quantitative Tests of the GABAA-Receptor Hypothesis of Volatile General Anesthetic Action using In Vivo Human Brain Imaging
Chang, Nancy	University of Chicago	1996	RSG	Molecular Probes to Investigate the Voltage-Gated Sodium Channel Structure
Hecker, James	University of California, Davis	1996	RSG	Transient Expression of Protective Intracellular Proteins by Delivery of Nucleic Acid/Cationic Lipid Complexes
Stuth, Eckehard	Medical College of Wisconsin	1996	RSG	Effects of Volatile Anesthetics on Synaptic Transmission in Respiratory Neurons
Baker, Keith	Massachusetts General Hospital	1996	RSG	Cardiac Arrhythmias Produced by Dysfunctional Ion Channels
Simon, Brett	Johns Hopkins University	1996	RSG	Regional Ventilation and Volume Recruitment in Acute Lung Injury
Bennett-Guerrero, Elliott	Icahn School of Medicine at Mount Sinai	1996	RSG	Preoperative Serum Anti-Endotoxin-Core Antibody (EndoCAb) Levels and Adverse Outcome Following Liver Transplant
Brown, Daniel	Johns Hopkins University	1996	RFG	Mechanisms of Cachexia
Gerhardt, Mark	Duke University School of Medicine	1996	FLW	Acute B-Adrenergic Receptor Desensitization During Cardiopulmonary Bypass in Patients with Cardiac Valve Disease
Marshall, Bryan	University of Pennsylvania Medical Center	1996	EDUC	Pulmonary Hemodynamics and Gas Exchange: A Self - Teaching Program
Palmer, Pamela	University of California, San Francisco	1996	YIA	Role of Serotonin Receptor Subtypes in Peripheral Pain Mechanisms
Malan, Thomas	University of Arizona Health Sciences	1996	YIA	Role of C-fos Expression in the Regulation of Neuropathic Pain
Sapirstein, Adam	Massachusetts General Hospital	1996	YIA	Mechanisms of cytosolic phospholipase A2 mediated cell death and gene regulation
Pajewski, Thomas	University of Virginia	1996	NIA	Anesthetic Effects on Nitric Oxide Signaling in the Central Nervous System
Johansson, Jonas	University of Pennsylvania Medical Center	1996	NIA	Interaction of Volatile General Anesthetics and Proteins Assessed by Fluorescence and Circular Dichroism Spectroscopy
Chetham, Paul	University of Colorado Denver	1996	NIA	Regulation of Ischemia-Reperfusion Pulmonary Edema by Endothelial Cell Phosphatases
Farber, Neil	Medical College of Wisconsin	1996	NIA	The Role of Nitric Oxide in Modulating Volatile Anesthetic-Induced Actions on Intracerebral Microvessels
Klafta, Jerome	University of Chicago	1996	EDUC	The Impact of a Specialized Preoperative Teaching Videotape on Patient Outcome
Sanga, Raghuram	University of Texas Southwestern Medical Center	1995	RSG	Cerebral Protection During Ischemia, A Molecular Genetics Approach
Gyulai, Ferenc	University of Pittsburgh Medical Center	1995	RSG	In Vivo Imaging of Volatile Anesthetic Action at Cerebral GABA _A -Receptors
Gilbert, Timothy	University of Maryland School of Medicine	1995	RSG	Physiologic and Mechanical Changes in the Respiratory System Following Lung Volume Reduction Surgery (Reduction Pneumoplasty)
Graham, Brent	University of Chicago	1995	RSG	Characterization of Noradrenergic Receptors Mediating Antinociception in Rats
Ness, Timothy	University of Alabama at Birmingham	1995	RSG	The Effect of Drug Treatment on Spinal Cord Stimulation-Produced Analgesia
Wilder, Robert	Boston Children's Hospital	1995	RSG	Mechanism of Tachyphylaxis to Local Anesthetics
Groban, Leanne	Wake Forest University School of Medicine	1995	FLW	The Effects of Cloricromene on Myocardial Protection in Ischemically Injured Canine Hearts
Niklason, Laura	Massachusetts General Hospital	1995	FLW	Tissue Engineered Vascular Prostheses
Reich, David	Icahn School of Medicine at Mount Sinai	1995	EDUC	Assessment of Noncognitive Characteristics of Residents in Anesthesiology: A Longitudinal Study
Emala, Charles	Johns Hopkins University	1995	RSG	Cytokine Modulation of Signal Transduction in Airway Smooth Muscle Cells in Asthma
Ya Deau, Jacques	Weill Medical College of Cornell University	1995	NIA	Effects of Anesthetic Agents on Stimulated Release of Neuropeptides
Crowder, Charles	Washington University School of Medicine	1995	NIA	Genetic Analysis of the Molecular Targets of Volatile Anesthetics in C. Elegans
Meyer, Donald	University of Missouri, Columbia Hospital	1995	NIA	Intracellular Signaling in Hormonal Control of Capillary Permeability
Parness, Jerome	Rutgers - New Jersey Medical School (Newark)	1995	NIA	Characterization and Identification of the Dantrolene Receptor from Porcine Tissues
Lawson, Charles	New York-Presbyterian Hospital (Columbia)	1995	NIA	Mechanisms Underlying Hypoxia/Hypoxemia-Induced Activation of Coagulation
Kersten, Judy	Medical College of Wisconsin	1995	NIA	Effects of Anesthetics on Reversibly Ischemic Myocardium

Shorten, George	Beth Israel Deaconess Medical Center	1995	EDUC	The Use of Three Dimensional Images of the Human Pharynx to Facilitate Training in Management of the Difficult Airway
Brennan, Timothy	University of Iowa Hospital and Clinics	1995	NIA	Central Neuronal Hyperexcitability in Postoperative Pain
Deem, Steven	University of Washington	1994	RSG	Effects of Anemia on Hypoxic Pulmonary Vasoconstriction
McDaniel, Laura	University of Texas Medical Branch at Galveston	1994	RSG	Diffusion-Weighted Magnetic Resonance Images of the Brain During Cardiopulmonary Bypass in Infant Pigs
Litman, Ronald	University of Rochester-Strong Memorial Hospital	1994	RSG	Breathing Patterns During Conscious and Deep Sedation in Children
Yland, Marc	University of Pittsburgh Medical Center	1994	RSG	The Role of Hypothermic Perfusion in Preserving Renal Function
Filmyer, William	University of Pennsylvania Medical Center	1994	RSG	Central Chemosensitivity of Frog Brain In Vitro
Reasoner, Daniel	University of Iowa Hospital and Clinics	1994	RSG	Leukodepletion and Cerebral Air Embolism
Chetham, Paul	University of Colorado Denver	1994	RSG	Pulmonary Endothelial Cell Intracellular Calcium Release Modulates Ischemia-Reperfusion Edema
Zakowski, Mark	New York University Medical Center	1994	RSG	In Vitro Placental Metabolism and Transfer of Anesthetic (Narcotic) Drugs
Hunter, Keith	Howard University Hospital	1994	RSG	Regulation of Heme Oxygenase in Response to Oxidative Stress
Colonna, David	Wake Forest University School of Medicine	1994	NIA	Cortical Spreading Depression as a Mechanism of Cerebral Ischemic Injury
Raines, Douglas	Massachusetts General Hospital	1994	NIA	Modulation of Affinity State Transitions in the Nicotinic Acetylcholine Receptor by General Anesthetics
Sperry, Richard	University of Utah Medical Center	1994	EDUC	Evaluation of the Economic Efficiency of Academic Anesthesiology Departments
Jobs, David	University of Pennsylvania Medical Center	1994	EDUC	Computer Aided Instruction in Clinical Competence (Renewal)
Euliano, Tammy	University of Florida Medical Center	1994	EDUC	Simulator-Based Acquisition of OB Anesthesia Skills
Fisher, Quentin	Johns Hopkins University	1994	EDUC	Improving Anesthetic Safety Through Guided Self-Critique by Anesthesiology Trainees
Stapelfeldt, Wolf	University of Pittsburgh Medical Center	1994	YIA	Sensitivity of Substance P-Mediated Synaptic Transmission to the Action of General Anesthetics
Sharar, Sam	University of Washington	1994	NIA	Perinatal Changes in Human Leukocyte Surface Molecules and Their Effects on Leukocyte-Endothelial Adherence
Bernards, Christopher	University of Washington	1994	NIA	Effect of Chronic Cocaine Administration of Hemodynamic Response to Vasopressors and Hemorrhage
Greenblatt, Eric	University of Pennsylvania Medical Center	1994	NIA	Molecular Determinants of Volatile Anesthetic Action on GABA-A Receptors
Yost, C.	University of California, San Francisco	1994	NIA	Molecular Basis of Anesthesia in Aplysia Neurons
Gropper, Michael	University of California, San Francisco	1994	NIA	Function and Regulation of the MIWC30 and CHIP28 Water Channels in Lung Alveolar Epithelium
Kassing, David	Indiana University School of Medicine	1994	EDUC	The Proficiency, Efficiency and Acceptance of Case-Based Computer-Assisted Instruction in Medical Student Training in Anesthesiology
Deutsch, Nicholas	David Geffen School of Medicine at UCLA	1993	YIA	Regulations of the ATP-Sensitive K ⁺ Channel
Kain, Zeev	Yale University School of Medicine	1993	RSG	Preoperative Anxiety in Preschool Children: Parental Presence at Induction of Anesthesia
Zar, Harvey	University of Pittsburgh Medical Center	1993	RSG	Free Radical Chemistry of the Mildly Hypothermic Liver
Rothfield, Kenneth	University of Pittsburgh Medical Center	1993	RSG	Determinants of the Cardiac Response to Mechanical Ventilation
Maves, Timothy	University of Iowa Hospital and Clinics	1993	RSG	Mechanisms of Neuropathic Pain
Brennan, Timothy	University of Iowa Hospital and Clinics	1993	RSG	Neural Mechanism of Incisional Pain
Utterback, David	University of Florida Medical Center	1993	RSG	Determination of Adenosine Receptors in Human Pulmonary Vasculature
Dyck, John	University of California, San Diego	1993	RSG	Computer Controlled Infusion of Sufentanil for Anesthetic Induction and Maintenance
Antognini, Joseph	University of California, Davis	1993	RSG	Determination of Gross Anatomic Sites of Anesthetic Action
Lawson, Charles	New York-Presbyterian Hospital (Columbia)	1993	RSG	Hypoxia-Induced Activation of Coagulation
Goldstein, Peter	New York-Presbyterian Hospital (Columbia)	1993	RSG	The Effects of Lidocaine on Excitatory Amino Acid Receptors in Rat Dorsal Horn Neurons
Baker, Kristy	New York-Presbyterian Hospital (Columbia)	1993	RSG	The Safety of Deliberate Mild Intraoperative Hypothermia for Craniotomy
Muzi, Michael	Medical College of Wisconsin	1993	RSG	Sympathetic Activation with Desflurane
Forman, Stuart	Harvard Medical School	1993	RSG	A Reverse Pharmacological Test for General Anesthetic Sites in the M2 (Ion Channel) Region of the Nicotinic Acetylcholine Receptor
Salgo, Ivan	University of Pennsylvania Medical Center	1993	FLW	Three Dimensional Echocardiographic Reconstruction and Advanced Endocardial Wall Motion Analysis
Blike, George	Dartmouth-Hitchcock Medical Center	1993	EDUC	Development of an Electronic Checklist System: Improving Equipment Fault Detection to Reduce Human Error as a Cause of Anesthesia Mishaps
Patel, Piyush	University of California, San Diego	1993	YIA	Cerebral Ischemia Induced Arachidonic Acid Metabolism: Effect of Eicosanoids and Free Radicals on Post-Ischemic Neuronal Injury
Roginski, Raymond	Rutgers - New Jersey Medical School (Newark)	1993	YIA	Molecular Biology of Neurotransmitter Receptors

Heath, Mark	New York-Presbyterian Hospital (Columbia)	1993	YIA	The Effects of Volatile Anesthetics on the Regulation of Cytoplasmic Ionized Calcium in Dorsal Horn Spinal Cord Neurons
Connelly, Timothy	University of Wisconsin, Madison	1993	NIA	The Effect of Volatile Anesthetics on the Calcium Release Channel of Cardiac Sarcoplasmic Reticulum
McGowan, Francis	University of Pittsburgh Medical Center	1993	NIA	Myocardial Effects of Cytokines
Gutstein, Howard	University of Michigan	1993	NIA	Neural Mechanisms Underlying Pain Responsiveness
Wallace, Arthur	University of California, San Francisco	1993	NIA	Coronary Vasomotion and Ventricular Function in Man
Wendling, Woodrow	Temple University School of Medicine	1993	NIA	Direct Effects of N-Methyl-D-Aspartate (NMDA) Receptor Antagonists and Hypothermia on Cerebral Arterial Tone and 45 Calcium Fluxes
From, Robert	University of Iowa Hospital and Clinics	1993	EDUC	Improving the Selection and Evaluation of Anaesthesia Residents with Behavior-based Measures of Performance
Reich, David	Icahn School of Medicine at Mount Sinai	1993	EDUC	Assessment of Noncognitive Characteristics of Residents in Anesthesiology: A Longitudinal Study
Gonzales, Jerry	University of Pennsylvania Medical Center	1993	YIA	Pentobarbital and cAMP Regulation in Cultured Mammalian Cells
Terman, Gregory	University of Washington	1992	RSG	Kappa Opioid Modulation of Long-Term Potentiation
Glosten, Beth	University of Washington	1992	RSG	Epidural Anesthesia and Thermoregulatory Responses in Humans
Pashayan, Annette	University of Florida Medical Center	1992	RSG	Effect of Anesthetics on Neuronal Cell Metabolism
O'Hara, Dorene	Rutgers - New Jersey Medical School (Newark)	1992	RSG	Closed-Loop Infusion of Pipecuronium During Cardiopulmonary Bypass
Perkins, William	Oregon Health and Science University	1992	RSG	The Anesthetic Effects of N-methyl-D-aspartate Receptor Antagonists
Veselis, Robert	Memorial Sloan Kettering Cancer Center	1992	RSG	Correlation of Electroencephalographic (EEG) and Cognitive Effects (Specifically Amnesia) During Intravenous Sedation
Stekiel, Thomas	Medical College of Wisconsin	1992	RSG	The Effects of Anesthetic Agents on Sympathetic Regulation of Mesenteric Vasculature in Chronic Hypertension
Lee, David	Weill Medical College of Cornell University	1992	RFG	Effects of Volatile Anesthetics on Voltage Dependent Calcium Channel Number & Phosphorylation State in Langendorff Perfused Hearts
Berkowitz, Dan	Duke University School of Medicine	1992	FLW	Characterization of alpha1-Adrenergic Receptors in Human Vessels: Initial Studies Using Chimeric Receptors
Jobes, David	University of Pennsylvania Medical Center	1992	EDUC	Computer Aided Instruction in Clinical Competence
Childers, Sara Jean	Northwestern University Feinberg School of Medicine	1992	EDUC	Evaluation of a Videotape for Teaching Fiberoptic Airway Endoscopy and Intubation
Dickstein, Marc	New York-Presbyterian Hospital (Columbia)	1992	RSG	Right Ventricular Performance in Acute Pulmonary Hypertension
Hemmings, Hugh	Weill Medical College of Cornell University	1992	NIA	The Effects of General Anesthetics on Synaptosomal Protein Phosphorylation and Neurotransmitter Release
Clarke, William	University of Washington	1992	NIA	Phosphodiesterase Control of Pulmonary Vascular Resistance
Crews, James	University of Cincinnati Medical Center	1992	NIA	An Investigation of the Neurophysiologic and Neuropharmacologic Mechanisms of Tourniquet Pain and Compression-Related Neuropathic Pain in a Rat Model
Leung, Jacqueline	University of California, San Francisco	1992	NIA	Prognostic Significance of Perioperative Myocardial Ischemia in CABG Surgery
Sun, Lena	New York-Presbyterian Hospital (Columbia)	1992	NIA	The Regulation of Myocardial B Adrenergic Receptor Function in the Neonatal and Adult Rabbit
McManus, Michael	Boston Children's Hospital	1992	NIA	Molecular and Cellular Mechanisms of Brain Cell Volume Control
Edler, Alice	Washington University School of Medicine	1992	EDUC	Examination of Selection Criteria and Future Residency Success in Post Graduate Anesthesiology Training
Harvey, Alan	Tufts Medical Center	1992	EDUC	Teaching of Regional Anesthesia: Component Analysis and Structured Teaching Process
Schubert, Armin	Cleveland Clinic	1992	EDUC	Oral Practice Examination as a Measure of Resident Performance
Peterfreund, Robert	Massachusetts General Hospital	1992	NIA	Expression of the Rat A2 Adenosine Receptor
Snelling, Linda	Yale University School of Medicine	1991	RSG	Physiologic and Biochemical Correlates of Pain in Critically Ill Children
Gehr, Lynne	Virginia Commonwealth University-Medical College of Virginia	1991	RSG	The Cardioprotective Effects of Anesthetic Agents During Ischemia and Reperfusion
Sharar, Sam	University of Washington	1991	RSG	Developmentally-Related Expression of Leukocyte Adhesion Molecules in Perinatal Rabbits
Mackie, Kenneth	University of Washington	1991	RSG	Cannabinoid Modulation of Neuronal Excitability
Gild, William	University of Washington	1991	RSG	An Ethnographic Analysis of Clinical Interaction Between Cardiac Anesthesiologists and Surgeons in the Operating Room
Quinlan, Joseph	University of Pittsburgh Medical Center	1991	RSG	Effect of Volatile General Anesthetics and Anesthetic n-Alkanols on Permeability Through GABAA-Receptor Operated Chloride Channels

Moore, Peter	University of California, Davis	1991	RSG	Effects of Isoflurane on Regional Myocardial Function During Ischemia in Chronically Instrumented Normotensive and Hypertensive Dogs
Brose, William	Stanford University School of Medicine	1991	RSG	Optimizing Treatment for Chronic Intractable Pain Using Therapeutic Drug Monitoring and Pharmacokinetic/Pharmacodynamic Concepts
Shangraw, Robert	Oregon Health and Science University	1991	RSG	Regulation of Glucose Metabolism During Liver Transplantation
Carp, Harvey	Oregon Health and Science University	1991	RSG	Hemodynamic Response to Intubation: The Role of Peripheral Opiate Receptors
Lasker, Steven	New York-Presbyterian Hospital (Columbia)	1991	RSG	An Investigation into the Ionic and Electrophysiological Mechanisms of Dysrhythmia Production and Suppression in the 24-Hour Canine Infarct Model
Heath, Mark	New York-Presbyterian Hospital (Columbia)	1991	RSG	The Effect of Volatile Anesthetics on the Subcellular Distribution of Calcium in Dorsal Horn Spinal Cord Neurons
Raines, Douglas	Massachusetts General Hospital	1991	RSG	The Effect of General Anesthetics on Lipid-Protein Interactions
Lindeman, Karen	Johns Hopkins University	1991	RSG	The Role of Mediators of Inflammation in Nonspecific Airway Constriction
Brown, Robert	Johns Hopkins University	1991	RSG	Anesthesia Induced Bronchodilation Assessed by High Resolution Computed Tomography
Mekhail, Nagy	Cleveland Clinic	1991	RSG	Study of Sympathetic Ganglia in an Experimental Model of Reflex Sympathetic Dystrophy
McRae, Karen	University of Pennsylvania Medical Center	1991	RFG	Surfactant Depletion Model of Acute Respiratory Failure in Rabbits Impairs Diffusive Transport of CO2 in the Alveolated Airways
Bickler, Philip	University of California, San Francisco	1991	NIA	Cerebral Physiology in Hypoxia Tolerant Animals
Alston, Theodore	Massachusetts General Hospital	1991	NIA	Effects of Anesthesia on Cobalamin Metabolism
Gentry, William	Northwestern University Feinberg School of Medicine	1991	FLW	Determinants of Drug Disposition Under Anesthesia
Slaughter, Thomas	Duke University School of Medicine	1991	FLW	Mechanisms for the Regulation of Prothrombin Activation During CBP
Cutter, Thomas	University of Chicago	1991	EDUC	The Attending Anesthesiologist as a Consultant to the Resident
Palmisano, Barbara	Medical College of Wisconsin	1991	YIA	Direct Myocardial Effects of Halothane and Isoflurane in Normal and Cyanotic Newborn Rabbits
Eckenhoff, Roderic	University of Pennsylvania Medical Center	1991	NIA	High Resolution Binding Studies of Halothane in C. Elegans
Dennis, Donn	University of Florida Medical Center	1991	NIA	Modulation of Myocardial Alpha 1-Adenosine Receptor Stimulus Response Coupling: Mechanisms and Anesthetic Implications
Keifer, John	Penn State University-Milton S. Hershey Medical Center	1991	NIA	Cholinergic Mechanisms Mediating Arousal and Narcotic-Induced Respiratory Depression
Levitt, Roy	Johns Hopkins University	1991	NIA	Hormone Sensitive Lipase: Gene Candidate in Malignant Hyperthermia Susceptibility
Mark, Lynette	University of Maryland School of Medicine	1991	EDUC	The Consultant Anesthesiologist: A New Profile for the Profession of Anesthesiology
Schubert, Armin	Cleveland Clinic	1991	EDUC	Practice Oral Examination as a Tool for Resident Evaluation in Anesthesiology
Fleisher, Lee	Yale University School of Medicine	1990	RSG	Power Spectral Analysis and ST Segment Trending as Measures of Reflex Sympathetic Activation in High-Risk Patients Undergoing Regional Anesthesia
Prielipp, Richard	Wake Forest University School of Medicine	1990	RSG	Beta-Adrenergic Catecholamine Resistance: The Role of Calcium
Bernards, Christopher	University of Washington	1990	RSG	Central Nervous System Mediated Cardiovascular Toxicity of Bupivacaine: Does It Play a Role in Cardiovascular Toxicity of Intravenous Bupivacaine?
Streisand, James	University of Utah Medical Center	1990	RSG	Transmucosal Absorption of Fentanyl: Effect of pH and Permeation Enhancers
Gonzales, Jerry	University of Pennsylvania Medical Center	1990	RSG	Effects of Barbiturates on B-Adrenergic Receptors, Guanine Nucleotide Binding Regulatory Proteins and Adenyl Cyclase
Pohorecki, Roman	University of Nebraska Medical Center	1990	RSG	Glutamate Toxicity and Ischemic Injury in Rat Hippocampal Slices In Vitro
Ellis, John	University of Chicago	1990	RSG	Does Perioperative Sympatholytic Therapy Improve Outcome After Non-Cardiac Surgery in Patients at High Risk of Having Coronary Artery Disease?
Aronson, Solomon	University of Chicago	1990	RSG	Quantification of Regional Renal Blood Flow with Contrast Ultrasonography in Dogs
Fleming, Neal	University of California, Davis	1990	RSG	Effect of Calcitonin Gene-Related Peptide on the Pharmacology and Physiology of Neuromuscular Function
Frank, Evan	Thomas Jefferson University-Jefferson Medical College	1990	RSG	Effect of Chronic Inhalational Anesthetic Exposure on Membrane Lipid Structure and Composition
Larach, Marilyn	Penn State University-Milton S. Hershey Medical Center	1990	RSG	Prediction of Malignant Hyperthermia Susceptibility

Fehr, David	Penn State University-Milton S. Hershey Medical Center	1990	RSG	Anesthetic Modulation of Pulmonary Endothelial Function
Hofer, Roger	Mayo Clinic Rochester	1990	RSG	The Effect of a Platelet Activating Factor Antagonist on Neurologic Outcome and Histopathology Following Complete Cerebral Ischemia in Dogs
Roberts, Jesse	Massachusetts General Hospital	1990	RSG	Inhaled Nitric Oxide: Selective Pulmonary Vasodilator for Infants with Persistent Pulmonary Hypertension of the Newborn
Peterfreund, Robert	Massachusetts General Hospital	1990	RSG	Molecular Regulatory Mechanisms of Dopamine-2 Receptor Gene Expression
Silverstein, Jeffrey	Icahn School of Medicine at Mount Sinai	1990	RSG	Effect and Localization of Potent Inhaled Anesthetic Agents on 5HT1A Receptor Function and Signal Transduction in Rat and Human Brain
Martin, Dan	Georgia Regents University	1990	RSG	Anesthetics and Neurotransmission at NMDA Receptors
Deutsch, Nicholas	David Geffen School of Medicine at UCLA	1990	RSG	Modulation of the ATP-Sensitive K ⁺ Channel During Metabolic Inhibition in Isolated Cardiac Myocytes
Fackler, James	Boston Children's Hospital	1990	RSG	Brain Energetics in a Newborn Piglet Model of Cardiopulmonary Bypass
Yang, Jay	University of Maryland School of Medicine	1990	NIA	A Quantal Analysis Study of the Mechanism of General Anesthetics Depression of Central Excitatory Synapses
Giffard, Rona	Stanford University School of Medicine	1990	NIA	The Effects of Ketamone, Thiopental and Propofol on Neuronal Injury In Vitro
Temp, John	David Geffen School of Medicine at UCLA	1990	FLW	The Role of GABA Pathways in the Ventilatory Response to Hypoxia, A Study Using Pharmacological Agents in Humans
Gerold, Kevin	University of Maryland School of Medicine	1990	EDUC	Computer Based Instruction in Anesthesiology
Kharasch, Evan	University of Washington	1990	NIA	Human Alfentanil Metabolism and Inhibition by Dexmedetomidine
Hastings, Randolph	University of California, San Francisco	1990	NIA	Mechanisms of Protein Clearance from the Air Spaces of the Lung
Jaffe, Richard	Stanford University School of Medicine	1990	NIA	Nociceptive Processing in the Spinal Cord: An Electrophysiological Model
Warner, David	Mayo Clinic Rochester	1990	NIA	Anesthesia and the Respiratory Muscles
Kulkarni, Rama	University of Massachusetts Medical School	1990	RSG	Molecular Mechanisms of General Anesthetic Action on Cloned Potassium Channels Expressed in Xenopus Oocytes
Rinder, Christine	Yale University School of Medicine	1989	RSG	Changes in Platelet Membrane Receptors During Cardiopulmonary Bypass
Rimar, Stephen	Yale University School of Medicine	1989	RSG	The Effects of General Anesthesia on Endothelin-Induced Coronary Vasoconstriction
Talke, Pekka	University of Texas Medical Branch at Galveston	1989	RSG	Effect of Peep on Lung Lymph Flow and Extravascular Lung Water in Smoke Inhalation Injury
Williams, John	University of Texas Health Sciences Center, Houston	1989	RSG	Assessment of Regional Ventricular Function in Patients Undergoing Cardiac Surgery
Kurth, Charles	University of Pennsylvania Medical Center	1989	RSG	Cerebral Microvascular Mechanisms of Pentobarbital in the Piglet
Oliver-Pathak, Barbara	University of Nebraska Medical Center	1989	RSG	Protective Effect of Volatile Anesthetic on Hepatocellular Energy Status During Ischemia
Heard, Stephen	University of Massachusetts Medical School	1989	RSG	Tumor Necrosis Factor as a Cause of the Myocardial Depression in Sepsis: Role of Secondary Lipid Mediators
Maktabi, Mazen	University of Iowa Hospital and Clinics	1989	RSG	Effect of Halothane on the Choroid Plexus
Hindman, Bradley	University of Iowa Hospital and Clinics	1989	RSG	Effect of Cardiopulmonary Bypass Upon Cerebral Blood Flow and Metabolism
Dull, David	University of Iowa Hospital and Clinics	1989	RSG	Determination of Regional Blood Flow Produced by Cardiopulmonary Resuscitation in Pigs During Spinal Anesthesia
Merrell, W.	University of Florida Medical Center	1989	RSG	Enhancement of the Pharmacologic Effects of Nondepolarizing Muscle Relaxants by Adenosine
Layon, Abraham	University of Florida Medical Center	1989	RSG	The Effects of Anesthesia on Global and Discrete Immune Function and Outcome in a Healthy Mouse Model - Phase I
Foss, Joseph	University of Chicago	1989	RSG	Examination of Peripheral Opioid Receptor Activity
Brian, Johnny	University of Arkansas	1989	RSG	Effects of Halothane and Isoflurane on In Vitro Responses of Canine Cerebral Arteries
Sun, Lena	New York-Presbyterian Hospital (Columbia)	1989	RSG	Sympathetic Neural Modulation of Cardiac Autonomic Responsiveness
Smiley, Richard	New York-Presbyterian Hospital (Columbia)	1989	RSG	Perioperative Changes in the Beta-Adrenergic Receptor/Adenylate Cyclase System of Human Lymphocytes
Polaner, David	Massachusetts General Hospital	1989	RSG	Augmentation of Regional Diaphragmatic Contraction by Epidural Anesthesia After Thoracic Surgery in the Awake Sheep
de Armendi, Alberto	Massachusetts General Hospital	1989	RSG	Mechanisms of Action of Volatile Anesthetics at the Acetylcholine Receptor
Levitt, Roy	Johns Hopkins University	1989	RSG	Airway Hyperreactivity: Genetic Mechanisms
Eleff, Scott	Johns Hopkins University	1989	RSG	Real Time NMR of Brain pH and Bioenergetics During CPR: Effects of Biocarbonate and Carbicarb Therapy
Chung, Ok Yung	Johns Hopkins University	1989	RSG	The Cardiodepressive and Cardioprotective Effects of Volatile Anesthetics on Intact Heart Myocyte in the Setting of Acidosis and Hypoxia
Introna, Robert	Georgia Regents University	1989	RSG	The Effects of Opioid Narcotics on 5-Hydroxytryptamine1A Receptor Mechanisms in Membranes from Rat Brain
Schwinn, Debra	Duke University School of Medicine	1989	RSG	Biochemical and Pharmacologic Characterization of a New Alpha Adrenergic Receptor Subtype
Yang, Jay	Washington University School of Medicine	1989	FLW	The Effect of Volatile General Anesthetics on Excitatory Amino Acid Receptors and Hypoxic Neuronal Death

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Alpha, Sigma	University of Washington	1989	FLW	Transmembrane Ion Channels Stabilized Within Polymerized Bilayers as a Model for Biosensors
Pearl, Ronald	Stanford University School of Medicine	1989	YIA	Estimation of Pulmonary Capillary Pressures in Intact Sheep
Hogan, Kirk	University of Wisconsin, Madison	1989	NIA	Malignant Hyperthermia DNA Linkage Analysis
Chen, Linda	University of Pennsylvania Medical Center	1989	NIA	The Influence of Almitrine Bismesylate on the Interaction Between Peripheral Chemoreceptors and Hypoxic Pulmonary Vasoconstriction
Chabal, Charles	University of Washington	1988	RSG	Tourniquet Induced Pain: Evaluation of Neurophysiology and Potential Treatments
Murray, Thomas	University of Pennsylvania Medical Center	1988	RSG	Effects of Inhalational Anesthetics on Isolated Pulmonary Vascular Smooth Muscle Cell Contractility Under Normoxic and Hypoxic Conditions
Murray, David	University of Iowa Hospital and Clinics	1988	RSG	Cardiovascular Effects of Halothane and Isoflurane in the Neonate, Infant, and Small Child
Roth, Steven	University of Chicago	1988	RSG	The Effects of General Anesthesia on Retinal and Choroidal Blood Flow
Breen, Peter	University of Chicago	1988	RSG	Changes in End-Tidal CO ₂ During Changes in Cardiac Output
Drasner, Kenneth	University of California, San Francisco	1988	RSG	The Effects of Inhaled Anesthetics on Pain Processing
Partridge, Brian	University of California, San Diego	1988	RSG	The Effects of Local Anesthetic Agents on Endoneurial Blood Flow
Benthuyzen, James	University of California, Davis	1988	RSG	Modeling of Alfentanil Anesthesia in Different Species
Frink, Edward	University of Arizona Health Sciences	1988	RSG	Interaction Between Inhalational and Narcotic Anesthetics: Possible Alterations in Hepatic Clearance. Evaluation in Liver Slice and Isolated Perfused Rat Liver Systems.
Vitkun, Stephen	State University of New York, Stony Brook	1988	RSG	The Effects of Inhalational Anesthetics on Pulmonary Clearance
Shafer, Steven	Stanford University School of Medicine	1988	RSG	The EEG as a Predictor of Hemodynamic Response in Patients Receiving Alfentanil by Computer Controlled Infusion
Lunn, Jeffrey	Mayo Clinic Rochester	1988	RSG	Peripheral Adrenergic Alterations Induced by E. Coli Endotoxin
Hurford, William	Massachusetts General Hospital	1988	RSG	Myocardial Ischemia During the Weaning of Mechanical Ventilator-Dependent Patients: Diagnosis and Pathophysiology
Gore, Ronald	Massachusetts General Hospital	1988	RSG	The Effect of Varying Lung Volume on Segmental Vascular Resistance and Compliance in the Liquid Filled and Newly Ventilated Fetal Lung
Maxson Bennie, Ruth	Indiana University School of Medicine	1988	RSG	Long-Term Effects of Neonatal Hypoxia on Rat Pulmonary Arterial Smooth Muscle
Leone, Bruce	Duke University School of Medicine	1988	RSG	Effects of Hemodilution on Regional Myocardial Function During Anesthesia
Baum, Victor	David Geffen School of Medicine at UCLA	1988	RSG	Differential Effects of Isoflurane and Halothane on Excitation-Contraction Coupling in the Developing Rabbit Myocardium
Stern, Richard	Washington University School of Medicine	1988	FLW	Volatile Anesthetic Effects on G Protein Mediated Receptor/Effector Coupling
Tanelian, Darrell	Stanford University School of Medicine	1988	YIA	The Effects of Tissue Injury on Nociceptor Physiology and Pharmacology
Jerome, E.	University of California, San Francisco	1988	NIA	Physiology of Recovery from Interstitial Pulmonary Edema
Weinger, Matthew	University of California, San Diego	1988	NIA	Elucidation of the Opiate Receptor Subtypes Mediating Muscle Rigidity
Alifimoff, James	Massachusetts General Hospital	1988	NIA	Molecular Mechanisms of Anesthetic Cut-off
Kennedy, Thomas	University of Michigan	1988	FLW	Mediators of Acute Lung Injury in Aspiration Pneumonitis
Maktabi, Mazen	University of Iowa Hospital and Clinics	1988	FLW	Effects of Angiotensin on the Choroid Plexus
Segal, Ira	Stanford University School of Medicine	1988	FLW	Partial Characterization of the Mechanism for the MAC-Reducing Anesthetic Action of Alphas ₂ Adrenergic Agonists
Schwinn, Debra	Duke University School of Medicine	1988	FLW	Elucidation of the Molecular Structure of the Human alpha-Adrenergic Receptor
Leiman, Basil	University of Texas Health Sciences Center, Houston	1987	RSG	Porcine Malignant Hyperthermia: Succinylcholine-Induced Masseter Muscle Rigidity
Miller, Francis	University of Pennsylvania Medical Center	1987	RSG	The Role of Atrial Natriuretic Hormone in the Regulation of the Pulmonary Circulation
Chestnut, David	University of Iowa Hospital and Clinics	1987	RSG	The Hemodynamic Response to Epidural Anesthesia in Pregnant Ewes After Intravenous Infusion of Ritodrine
Ellis, John	University of Chicago	1987	RSG	Elucidation of the Mechanism of Myocardial Ischemia During Vascular Surgery
Nussmeier, Nancy	University of California, San Francisco	1987	RSG	Efficacy and Dose of Thiopental in Reduction of Neuropsychiatric Complications After Hypothermic Cardiopulmonary Bypass
Jaffe, Rory	University of California, Davis	1987	RSG	Monocrotaline-Induced Pulmonary Hypertension in Sheep
Skeehan, Thomas	Penn State University-Milton S. Hershey Medical Center	1987	RSG	Halogenated Anesthetic-Mediated Myocardial Depression
Jordan, Desmond	New York-Presbyterian Hospital (Columbia)	1987	RSG	Adrenal Adrenergic Receptors
Berman, Mitchell	New York-Presbyterian Hospital (Columbia)	1987	RSG	The Effects of Local Anesthetics on Single Sodium Currents in Canine Ventricular Cells

Means, Lynda	Indiana University School of Medicine	1987	RSG	Pulmonary Microcirculatory Responses in Perinatal Lambs
Morgan, Philip	Case Western Reserve	1987	RSG	Genetic and Biochemical Analysis of the Response to Volatile Anesthetics in Caenorhabditis Elegans
Cole, Daniel	Loma Linda University Medical Center	1987	RSG	The Influence of Hemodynamic Manipulation Upon Infarct Size and Neuropathologic Outcome Following Focal Cerebral Ischemia
Johns, Roger	University of Virginia	1987	NIA	Hypoxia and EDRF Release from Pulmonary Artery Endothelium
Warner, David	University of Iowa Hospital and Clinics	1987	NIA	Anesthetics: Effects on Cerebral Blood Flow and Metabolism During Focal Ischemia in the Rat; Implications for Cerebral Protection
Keamy, Mitchell	University of Chicago	1987	NIA	Diaphragm Energetics and Fatigue
Castenholz, Raymond	University of Florida Medical Center	1987	FLW	The Effect of Cardiopulmonary Bypass Perfusion Pressure on Cerebral Outcome After Coronary Artery Bypass Grafting
Hughes, Joseph	Mayo Clinic Rochester	1987	FLW	Do Volatile Anesthetics Attenuate Epicardial Coronary Constriction in Dogs?
Hotchkiss, Richard		1987	RSG	
Hutyra, John	University of Texas Health Science Center, San Antonio	1986	RSG	Treatment of Global Cerebral Ischemia Using Ventriculo-cisternal Perfusion
Housmans, Philippe	Mayo Clinic Rochester	1986	NIA	Enflurane and Cardiac Contractility
Rice, Mark	University of Wisconsin, Madison	1986	RSG	
Stein, Keith	University of Massachusetts Medical School	1986	RSG	The Role of Interleukin-1 in the Hemodynamic Aberrations of Septic Shock
Arden, James	University of California, San Francisco	1986	RSG	
Zornow, Mark	University of California, San Diego	1986	RSG	
Young, William	New York-Presbyterian Hospital (Columbia)	1986	RSG	
Schmeling, William	Medical College of Wisconsin	1986	RSG	
Wheeler, David	Johns Hopkins University	1986	RSG	The Mechanisms of the Negative Inotropic Effect of Volatile Anesthetics in Isolated Rat Heart Cell
Henthorn, Thomas	Northwestern University Feinberg School of Medicine	1986	NIA	Narcotic Metabolism and the Polymorphic Oxidation Phenotype
Gaumann, Dorothee	Mayo Clinic Rochester	1986	FLW	Effects of Opioid Receptor Activation and General Anesthesia on Adrenal Catecholamine and Enkephalin Outflow During Pain and Hypovolemia in Cats
Lanier, William	Mayo Clinic Rochester	1985	RSG	Cerebral Stimulating Effects of Intravenous Succinylcholine
Kofke, William	Penn State University-Milton S. Hershey Medical Center	1985	NIA	General Anesthesia for Status Epilepticus
Lema, Mark	Brigham and Women's Hospital	1985	NIA	Effects of Nitrous Oxide, Halogenated Inhalational Anesthetics and Local Anesthetics on Intact and Skinned Human Myocardial Tissue
Rooke, G.	University of Washington	1985	RSG	
Katz, Jeffrey	University of Texas Health Sciences Center, Houston	1985	RSG	
Allen, Steven	University of Texas Health Sciences Center, Houston	1985	RSG	
Firestone, Leonard	University of Pittsburgh Medical Center	1985	RSG	
Cason, Brian	University of California, San Francisco	1985	RSG	
Pearl, Ronald	Stanford University School of Medicine	1985	RSG	
Krejcie, Tom	Northwestern University Feinberg School of Medicine	1985	RSG	
Wessel, David	Harvard Medical School	1985	RSG	
Warner, David	Duke University School of Medicine	1985	RSG	
Schreiner, Mark	Children's Hospital of Philadelphia	1985	RSG	
Bollen, Bruce	University of Iowa Hospital and Clinics	1985	FLW	Effects of Halothane and Isoflurane on Coronary Arterial Tone and Influence of Nifedipine on their Action
Litt, Lawrence	University of California, San Francisco	1984	NIA	A Study of Cerebral Bioenergetics in the Rat During Isoflurane and Halothane Anesthesia Using In Vivo ³¹ P Nuclear Magnetic Resonance Spectroscopy
Caplan, Robert	Virginia Mason Medical Center	1984	RSG	
Bowdle, Thomas	University of Washington	1984	RSG	
Chen, Linda	University of Pennsylvania Medical Center	1984	RSG	

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Scott, James	University of New Mexico School of Medicine	1984	RSG	
Bokesch, Paula	University of Massachusetts Medical School	1984	RSG	
Brett, Claire	University of California, San Francisco	1984	RSG	
Scheller, Mark	University of California, San Diego	1984	RSG	
Brett, Roger	State University of New York, Stony Brook	1984	RSG	
Latson, Terry	New York-Presbyterian Hospital (Columbia)	1984	RSG	
Krane, Elliot	Children's Hospital and Regional Medical Center, Seattle	1984	RSG	
Kressin, Nancy	University of Wisconsin, Madison	1984	FLW	Curare-Dopaminergic Antagonism and Effects on Ventilation
Zornow, Mark	University of California, San Diego	1984	FLW	Brain Edema Formation in Open and Closed Cranium Cats Following Normovolemic Hemodilution with Normal Saline of Hespan
Drummond, John	University of California, San Diego	1983	NIA	A Comparison of the Cerebrovascular Effects of Halothane and Isoflurane on Autoregulation, Carbon Dioxide Responsiveness and Blood Brain Barrier Integrity
Bishop, Michael	University of Washington	1983	NIA	The Pulmonary Arterial Circulation in the Adult Respiratory Distress Syndrome
Lynn, Anne	University of Washington	1983	RSG	
Young, Marie	University of Pennsylvania Medical Center	1983	RSG	
Alexander, Christian	University of Pennsylvania Medical Center	1983	RSG	
Sybert, Peter	Santa Rosa Memorial Hospital	1983	RSG	
Bell, Larry	Providence Everett Medical Center	1983	RSG	
Davis, Richard	Oregon Health and Science University	1983	RSG	
Yaster, Myron	Johns Hopkins University	1983	RSG	
Moon, Richard	Duke University School of Medicine	1983	RSG	
Gallagher, John	Dartmouth-Hitchcock Medical Center	1983	RSG	
Bokesch, Paula	Brigham and Women's Hospital	1983	FLW	Temperature Modulation of Conductive Blocks by Local Anesthetics
Prutow, Richard		1982	RSG	
Chadwick, Heathcliff	University of Washington	1982	RSG	
Artru, Alan	University of Washington	1982	RSG	
Lynch, Carl	University of Virginia	1982	RSG	
White, Paul	University of Texas Medical Branch at Galveston	1982	RSG	
Hantler, Charles	University of Michigan	1982	RSG	
Todd, Michael	University of Iowa Hospital and Clinics	1982	RSG	
Ponganis, Paul	Sharp Memorial Hospital	1982	RSG	
Fletcher, Peter	Delaware County Memorial Hospital	1982	RSG	
Legler, Dwight	Mayo Clinic Rochester	1982	FLW	
Cory, Phillip		1981	RSG	
Freund, Peter	University of Washington	1981	RSG	
Bashein, Gerard	University of Washington	1981	RSG	
Tirer, Samuel	University of Pennsylvania Medical Center	1981	RSG	
Otto, Charles	University of Arizona Health Sciences	1981	RSG	
Cote, Charles	Ann and Robert H. Lurie Children's Hospital of Chicago	1981	RSG	
Kroll, Donald	University of Michigan	1981	FLW	Antifibrillatory Properties of Volatile Anesthetics
Lewis, Robert		1980	RSG	
Kraynack, Barry		1980	RSG	
Belani, Kumar	University of Minnesota	1980	RSG	
Knight, Paul	University of Michigan	1980	RSG	
Ford, Douglas	University of Cincinnati Medical Center	1980	RSG	

Approved FAER Awards
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Stanski, Donald	Stanford University School of Medicine	1980	RSG	
Horrow, Jay	Drexel University College of Medicine	1980	RSG	
Gelman, Simon	Brigham and Women's Hospital	1980	RSG	
Hargrove, John		1979	RSG	
Colley, Peter	University of Washington	1979	RSG	
Bedford, Robert	University of Virginia	1979	RSG	
Vogelhut, Mark	Tallahassee Memorial Regional Medical Center	1979	RSG	
Bernstein, Keith	Janssen Pharmaceutica	1979	RSG	
Orkin, Fredrick	Dartmouth-Hitchcock Medical Center	1979	RSG	
Orr, Rosemary	Children's Hospital and Regional Medical Center, Seattle	1979	RSG	
Edmonds, Albert	Cabrini Hospitals	1979	RSG	
Jawalekar, Shreeniwas		1978	RSG	
Kreul, John	University of Wisconsin, Madison	1978	RSG	
Roizen, Michael	University of Chicago	1978	RSG	
Moss, Jonathan	University of Chicago	1978	RSG	
Rorie, Duane	Mayo Clinic Rochester	1978	RSG	
Miller, Elliott	Massachusetts General Hospital	1978	RSG	
Crumrine, Robert	Georgia Regents University	1978	RSG	
Reves, Jerry	Duke University School of Medicine	1978	RSG	
Conklin, Kenneth	David Geffen School of Medicine at UCLA	1978	RSG	
Gal, Thomas	University of Virginia	1977	RSG	
Grundy, Betty Lou	University of Florida Medical Center	1977	RSG	
Atlee, John	Medical College of Wisconsin	1977	RSG	
Miller, Edward	Johns Hopkins University	1977	RSG	
Iwamoto, Kumiko		1976	RSG	
Tonnesen, Alan	University of Texas Health Sciences Center, Houston	1976	RSG	
Becker, Karl	University of Kansas School of Medicine, Wichita	1976	RSG	
Hirshman, Carol	Johns Hopkins University	1976	RSG	
Nahrwold, Michael	Indiana University School of Medicine	1976	RSG	
Dueck, Ronald	University of California, San Diego	1975	RSG	
O'Brien, Lois	St. Johns Hospital Health Center	1975	RSG	
Kaplan, Joel	Icahn School of Medicine at Mount Sinai	1975	RSG	
Forbes, Atholl	California Pacific Medical Center	1975	RSG	
Wiklund, Richard	University of Virginia	1974	RSG	
Benumof, Jonathan	University of California, San Diego	1974	RSG	
Muldoon Nolan, Sheila	National Capital Consortium, USUHS	1974	RSG	
Levitt, Jerry	Drexel University College of Medicine	1974	RSG	
Ross, William	University of Virginia	1973	RSG	
Kane, Peter	State University of New York, Upstate Medical University	1973	RSG	
Filner, Bernard	Shady Grove Adventist Hospital	1973	RSG	
Redderson, Carl	Case Western Reserve	1973	RSG	