It's About Discovery. It's About Innovation. It's About the Future.
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It’s About Discovery. 
It’s About Innovation. 
It’s About the Future.

2010 Annual Report

January 1, 2010, to December 31, 2010

Great effort was made to include all contributors in this report and to ensure the accuracy of names and titles. If we have erred, please accept our apologies and let us know so we may make corrections in the future.
Our Mission

To advance medicine through education and research in anesthesiology
Funding Discovery, Innovation and the Future of Anesthesiology

This past year was one of growth and renewal for FAER. As the Great Recession eased its grip on the economy, our investments continued to recover, and the generosity of many of our donors increased. We were particularly grateful to receive a donation of more than $450,000 from the estate of Gertie Marx, MD, a pioneer in obstetric anesthesiology. This was in addition to the more than $500,000 she had already contributed, making Dr. Marx FAER’s largest single individual donor.

As a result of these improvements in our financial outlook, the FAER Board of Directors began returning our programs to previous levels of funding and size. We awarded more than $1,825,000 in research grants to 14 investigators in 2010, a 62% increase over the $1,125,000 in grants awarded to nine investigators in 2009.

The Medical Student Anesthesia Research Fellowship Program grew as well, serving 58 medical students in 2010, a 14% increase over the 51 students served in 2009. This was in large part due to the generosity of a number of host institutions.

We began new initiatives to help fulfill our mission to advance medicine through education and research in anesthesiology. We established an annual Gertie Marx/FAER Research and Education Grant to the Society for Obstetric Anesthesia and Perinatology to support educational sessions at the society’s annual meetings, including an annual Gertie Marx/FAER Educational Lecture. We began a similar partnership with the American Society of Regional Anesthesia and Pain Medicine, launching an annual FAER/ASRA lecture at the 2010 fall ASRA meeting.

FAER also committed to supporting geriatric anesthesia research in 2010. The American Geriatrics Society created the Jahnigen Career Development Award Program/GEMSSTAR, a companion grant program to the National Institute on Aging RO3 award: Grants for Early Medical/Surgical Subspecialists’ Transition to Aging Research (GEMSSTAR Program). This award provides up to $100,000 in direct costs over two years for research on the geriatrics aspects of a physician’s specialty to help him or her establish a track record in the field. FAER is contributing $25,000 to a GEMSSTAR award as a participating subspecialty society.

We launched the Society for Anesthesia Education and Research, welcoming 39 charter members in 2010 and early 2011. Membership in SAER offers anesthesiology departments and practice groups who pay annual dues of $5,000 special recognition and the opportunity to support existing and new FAER research funding opportunities.

This past year was one of planning for two important milestones coming up in 2011: The retirement of our current president, and the 25th Anniversary of our founding. You can read more about the naming of our new president on page 28 of this report, and we will share news about our anniversary celebration as the year progresses.

This report highlights FAER’s work to ensure we produce the dedicated educators and physician scientists needed to make the discoveries and innovations that will secure our specialty’s future. It also recognizes the donors who make this important work possible. We thank all those who contribute time, talent and dollars to advancing FAER’s mission.

Sincerely,

Denham S. Ward, MD, PhD, and Alan D. Sessler, MD
Anesthesia Research Grants

FAER offers three types of research grants geared toward residents, fellows and faculty members in anesthesiology:

**Mentored Research Training Grant**
- For instructors or assistant professors, no more than 10 years after completion of residency or fellowship
- Year 1: $75,000, Year 2: $100,000
- 75% research time
- Focused on developing the skills and preliminary data anesthesiologists need to become competitive, independent investigators

**Research in Education Grant**
- For junior or senior faculty
- Year 1: $50,000, Year 2: $50,000
- 40% research time
- Focused on developing innovative techniques for educating anesthesiologists

**Research Fellowship Grant**
- For anesthesiology residents after CA-1 year
- Year 1: $75,000
- 80% research time
- Awarded in conjunction with clinical training in a residency or fellowship program

Applications are reviewed by the American Society of Anesthesiologists Committee on Research (RFGs, MRTGs) or the FAER Education Study Section (REGs). Grants are awarded based on scores and available funding.

For more information on FAER grants and the application process, visit [www.faer.org](http://www.faer.org).
2010 Mentored Research Training Grant recipient Astrid G. Stucke, MD, in the OR at the Medical College of Wisconsin in Milwaukee, WI.

ASA Committee on Research
Paul R. Knight, III, MD, PhD, Chair
Michael J. Avram, PhD, Adj.
Keith A. Candiotti, MD
Marcel E. Durieux, MD, PhD, Adj.
Allan Gottschalk, MD, PhD
Judith Hellman, MD, Adj.
Hugh C. Hemmings, MD, PhD, Adj.
Thomas K. Henthorn, MD, Adj.
Judy R. Kersten, MD, Adj.
Beverly K. Philip, MD
Y. S. Prakash, MD, PhD, Adj.
Sadeq A. Quraishi, MD, Adj.
Daniel I. Sessler, MD
David O. Warner, MD

FAER Education Study Section
John R. Moyers, MD, Chair
Joy L. Hawkins, MD
Michael F. Roizen, MD
Theodore J. Sanford, Jr., MD
Armin Schubert, MD, MBA

2010 Grant Recipients
We received research grant applications from 45 promising researchers and educators in 2010. Application numbers were up nearly 10 percent, from 41 applications in 2009. Applications included:

- Eighteen Mentored Research Training Grants focused on basic science research
- Fifteen Mentored Research Training Grants focused on clinical and translational research
- Seven Research in Education Grants
- Five Research Fellowship Grants

2010 Research in Education Grant recipient Julian S. Bick, MD, in the lab at Vanderbilt University Medical Center in Nashville, TN.

2010 Research Fellowship Grant recipient Michael E. Nemergut, MD, PhD, in the lab at Johns Hopkins University in Baltimore, MD.
Discovery & Innovation

FAER Board of Directors approved 14 grants in 2010:

**Julian S. Bick, MD**
Vanderbilt University Medical Center
REG: “Incorporation of Basic Transesophageal Echocardiography Training into Anesthesiology Residency”
Mentor: Bernhard Riedel, MB, ChB, FCA, MMed, FAHA, PhD
Co-sponsor: Society of Cardiovascular Anesthesiologists Foundation

**Zhonghui Guan, MD**
University of California, San Francisco
MRTG: “Contribution of Histone Acetylation in Inflammatory Pain”
Mentor: Allan I. Basbaum, PhD, FRS

**Christopher G. Hughes, MD**
Vanderbilt University Medical Center
MRTG: “The Role of Endothelial Dysfunction in Intensive Care Unit Delirium and Long-term Cognitive Impairment”
Mentor: Pratik P. Pandharipande, MD

**Erik B. Kistler, MD, PhD**
University of California, San Diego
Mentor: Piyush M. Patel, MD
Co-sponsor: ASCCA-FAER-Hospira Physician Scientist Award

**Sapna R. Kudchadkar, MD**
Johns Hopkins University
RFG: “The Impact of Pain and Pain Management on the Quality and Duration of Sleep in Mechanically Ventilated Children”
Mentor: Myron Yaster, MD

**Jennifer K. Lee, MD**
Johns Hopkins University
MRTG: “The Effects of Pediatric Cardiac Arrest, Hypothermia, and Re-warming on Cerebrovascular Autoregulation”
Mentor: Raymond C. Koehler, PhD
**Jochen D. Muehlschlegel, MD**  
Brigham and Women’s Hospital  
MRTG: “Identification of Cardiac Specific ANRIL Splice Variants”  
Mentor: Jonathan G. Seidman, PhD

**Michael E. Nemergut, MD, PhD**  
Johns Hopkins University  
RFG: “Pediatric Neurotoxicity of General Anesthetics”  
Mentor: Raymond C. Koehler, PhD  
Co-sponsor: Society for Obstetric Anesthesia and Perinatology/FAER Gertie Marx Research and Education Fund

**Pornswan Ngamprasertwong, MD**  
Cincinnati Children’s Hospital Medical Center  
RFG: “Effect of Maternal Anesthesia on Fetal Outcomes in Sheep Model”  
Mentor: Senthilkumar Sadhasivam, MD  
Co-sponsor: Society for Obstetric Anesthesia and Perinatology/FAER Gertie Marx Research and Education Fund

**Ben Julian A. Palanca, MD, PhD**  
Washington University School of Medicine  
MRTG: “Neural Correlates of Anesthetic-induced Unconsciousness in fMRI and EEG Signals”  
Mentor: Marcus E. Raichle, MD  
Co-sponsor: Society for Neuroscience in Anesthesiology and Critical Care

**Alexander Proekt, MD, PhD**  
Weill Medical College of Cornell University  
MRTG: “Neurophysiological Basis of Emergence from General Anesthesia”  
Mentor: Donald W. Pfaff, PhD

**Marjorie P. Stiegler, MD**  
David Geffen School of Medicine (UCLA Medical Center)  
Mentor: LuAnn Wilkerson, EdD  
Co-sponsor: Society for Education in Anesthesia

**Jing Wang, MD, PhD**  
New York University Medical Center  
MRTG: “Chronic Pain Increases Calcium Permeable AMPA Receptors, Which in Turn Regulate Anhedonia and Vulnerability to Addiction”  
Mentor: Edward B. Ziff, PhD  
Co-sponsor: American Society of Regional Anesthesia and Pain Medicine
Progress Report: ASA/FAER Partnership to Study Awareness Prevention

In 2007, the American Society of Anesthesiologists provided funding for FAER to award two research grants focused on helping us better understand the role of cerebral function monitoring in the prevention of intraoperative awareness. Two projects were selected from among seven proposals submitted in response to a request for research proposals:

- Michael S. Avidan, MBBCh, FCA, at Washington University in St. Louis, MO, received funding for his study titled “BAG-RECALL: BIS or Anesthesia Gas to Reduce Explicit Recall.” Dr. Avidan proposed testing the hypothesis that an anesthetic protocol based on bispectral index (BIS) monitoring decreases the incidence of intraoperative awareness among patients at high risk for this complication compared with an anesthetic protocol based on end-tidal anesthetic concentration (ETAC). The study was conducted as a three-center (Washington University, University of Manitoba and University of Chicago), prospective, randomized trial enrolling 6,000 patients at high risk for intraoperative awareness.

- George A. Mashour, MD, PhD, at the University of Michigan in Ann Arbor, MI, received funding for his study titled “A Prospective, Randomized, Controlled Trial Comparing Bispectral Index Monitoring to Electronic Alerts for Prevention of Awareness During Anesthesia in the General Population.” Dr. Mashour’s project also focused on the BIS monitor. He proposed a prospective, randomized, controlled trial comparing the BIS monitor to electronic alerts based on non-electroencephalographic gauges of anesthetic depth in patients at all risk levels for awareness. The study was conducted in more than 20,000 patients at three hospitals within the University of Michigan Health System.

These two research teams developed a close collaboration to ensure complementary work, even pre-specifying in their Clinical Trials registrations that common outcomes between the studies would be analyzed through meta-analyses. In fact, Drs. Avidan and Mashour are co-Principal Investigators on both trials. They envisioned that their collaboration would allow them to answer with a degree of certainty whether BIS monitoring results in a clinically meaningful reduction in unintended intraoperative awareness in both high risk patients, and in patients undergoing general anesthesia regardless of risk profile.

An abstract describing one component of Dr. Mashour’s project, an alerting system for the detection of potentially insufficient anesthesia, won an award from the Society for Technology in Anesthesia at the 2008 ASA Annual Meeting for best clinical application of technology. A novel algorithm based on the total minimum alveolar
concentration (MAC) for inhalational agents, as well as intravenous infusions and boluses, was constructed and implemented in his research team’s electronic perioperative information system.

The data gathered by Drs. Avidan and Mashour will make significant contributions to the scientific literature on the prevention of awareness, providing valuable information and guidance to anesthesiologists across the globe.

The ASA has supported these projects with a total of $1,096,000 divided equally between the two grants, which FAER has administered. Together, the data gathered by Drs. Avidan and Mashour will make significant contributions to the scientific literature on the prevention of awareness, providing valuable information and guidance to anesthesiologists across the globe. Their collaboration has already resulted in the development of a novel classification system for intraoperative awareness events, a book on awareness, and numerous joint publications. They most recently submitted manuscripts describing the outcome of their studies to high-profile medical journals.

Drs. Avidan and Mashour anticipate their collaborative research will achieve a number of secondary outcomes in the coming years, including:

- Multi-variate risk models for awareness based on patients recruited for both studies.
- The incidence and predictors of psychological sequelae attributable to awareness.
- The relationship between cumulative deep hypnotic time, anesthetic doses, and mortality.
- The clinical management and outcomes for patients who have a history of awareness.

In gratitude for the support they have received, Drs. Avidan and Mashour recently made a joint donation to FAER. “We recognize the important role that FAER has played in our research programs and our career development,” they said. “We are committed to giving back to help ensure the future of the foundation as well as the future of the academic anesthesiology mission it supports.”
The 2010 Annual Meeting Resident Scholar Program provided educational grants to anesthesia departments to help residents attend the ASA Annual Meeting. “The program is designed to encourage trainees to enter academic medicine and become the teachers of tomorrow,” said Joy L. Hawkins, MD, Program Chair. “We need our best and brightest to move the specialty forward through teaching and research. Today’s resident scholars will be producing our best science in the future and contributing to the continuation of the specialty.”

For more information on the Annual Meeting Resident Scholar Program, visit www.faer.org/programs/scholars.
2010 Annual Meeting Resident Scholars

Vivek Arora, MBBS
Henry Ford Hospital

Douglas B. Atkinson, MD
University of Washington

Nora Azzazy, MD
Virginia Commonwealth University-Medical College of Virginia

Robert B. Bolash, MD
St. Luke’s-Roosevelt Hospital Center

Joseph Deng, MD
Loma Linda University

Linzy A. Doherty, MD
David Geffen School of Medicine (UCLA Medical Center)

Jeremy S. Dority, MD
University of Kentucky

Rebecca L. Downey, MD
Tufts Medical Center

Paul I. Eisenberg, MD
Northwestern University’s Feinberg School of Medicine

Jonathan E. Ferns, MD
University of Missouri-Kansas City School of Medicine

Ryan N. Foresman, MD
Maine Medical Center

Supriya P. Franklin, MD
University of Texas Health Sciences Center, Houston

Kamrouz Ghadimi, MD
Western Pennsylvania Hospital/Temple University School of Medicine

Leah E. Gross, MD
University of Texas Health Science Center, San Antonio

Ihar Halai, MD
State University of New York, Upstate Medical University

Lindsey C. Hansen, MD
Indiana University School of Medicine

Timothy L. Heinke, MD
Medical University of South Carolina

Anthony Isenalumhe, Jr., MD
New York University Medical Center

Ryan Joyce, MD
Baystate Medical Center

Patrick M. Klar, MD, BS
University of Mississippi Medical Center

Benjamin W. Ladner, MD
University of Louisville

Jennifer Mack, DO
Albert Einstein College of Medicine

Prashanth S. Manjunath, MD
University of Miami School of Medicine

Nicholas W. Markin, MD
University of Nebraska Medical Center

Jill I. McCarty, MD
Saint Louis University School of Medicine

Evelyn C. Monico, MD
University of California, Davis

Rebecca L. Morrison, MD
Scott and White Memorial Hospital - Texas A&M College of Medicine

Robert M. Nicholson, IV, MD
University of Virginia

Silvia E. Perez-Protto, MD
Cleveland Clinic

Saravanan Ramamoorthy, MD
Pennsylvania State University - Milton S. Hershey Medical Center

Janakiram Ravulapati, MD
University of Florida Medical Center

Cody C. Rowan, MD
University of Tennessee Medical Center at Knoxville

Candra E. Rowell, MD
University of North Carolina Hospitals

Brian S. Schloss, MD
Ohio State University

Eric S. Schwenk, MD
Thomas Jefferson University-Jefferson Medical College

Alan Sim, MD
Mount Sinai School of Medicine (New York)

Daniel C. Sizemore, MD
West Virginia University School of Medicine

Matthew Spond, MD
University of Arkansas for Medical Sciences

Bui T. Tran, MD
Boston University Medical Center

Eleanor A. Vega, MD
Oregon Health and Science University

Marisa M. Wynne, DO
MetroHealth Medical Center

Sloan C. Youngblood, MD
Baylor College of Medicine

Resident Scholars Ihar Halai, MD, and Nicholas Markin, MD, at the Farewell Reception for FAER program participants at the ASA Annual Meeting in San Diego, CA.
The 2010 Practice Management Resident Scholar Program provided $750 grants to 28 anesthesia departments to help residents attend the ASA Conference on Practice Management, where they received an introduction to basic practice management issues.

2010 Practice Management Resident Scholars

Andre Atoian, MD, MBA
LAC & USC Medical Center

Richard Belle-Isle, MD
Medical College of Georgia

Major K. Boateng, MD, MBA
University of Iowa

Brandon Bowman, MD
Emory University School of Medicine

Brad N. Brian, MD, MS, MBA
University of Florida

Carl Buoy, MD
Northwestern University

Matthew A. Caldwell, MD
Kansas University Medical Center

Ayana G. Cannon, MD
University of Maryland Medical Center

Johnny C. Chen, MD
David Geffen School of Medicine at UCLA

Allison G. Clark, MD
Ochsner Clinic Foundation

Trevor B. Emory, MD, MBA
Dartmouth-Hitchcock Medical Center

William Ennen, MD
Stanford University

Mark Ettinger, MD
Johns Hopkins University

Amy B. Halliburton, MD
University of Alabama School of Medicine

Sayeh Hamzehzadeh, MD
Johns Hopkins Hospital

Adam Kline, MD
Medical College of Wisconsin

David Cameron May, MD
University of Mississippi Medical Center

Scott T. McCardle, MD
University of Michigan

Jaideep Mehta, MD, MBA
The George Washington University Medical Center

Fleurise Montecillo, MD
New York University

Jaffer Odeh, MD
Anesthesiology Institute, Cleveland Clinic

Matthew E. Patterson, MD
Emory University School of Medicine

Darren Raphael, MD, MBA
University of California, Irvine

Deborah Rohner, MD
University of Cincinnati

Jessica Scarfe, MD
VCU Health System

Jeremy Schirmer, MD
LSUHSC Shreveport

Robert Schuster, MD, MBA
Saint Luke’s Roosevelt Hospital Center

Mark Slomovits, MD
UMDNJ-Robert Wood Johnson Medical School
Medical Student Anesthesia Research Program

The 2010 MSARF program provided 58 medical students with eight-week summer research experiences at 40 host institutions. Aimed at encouraging careers in anesthesiology and perioperative medicine research, the program includes participation in research and training activities in the anesthesia department, a dedicated mentor, 15% exposure to clinical anesthesia and an opportunity to make a scientific presentation at the MSARF Symposium at the ASA Annual Meeting.

“Interest in the MSARF Program has grown steadily over the past six years,” said Program Chair Donn M. Dennis, MD, FAHA. “FAER received a record-breaking 192 applications in 2010—nearly 25% more than we received in 2009, and 12 times more than we received in 2005 when the program was launched. Clearly, past participants and anesthesia departments are spreading the word about the program’s value.”

For more information on the MSARF program, visit www.faer.org/programs/students.

2010 MSARF Participants and Host Institutions

Benjamin Aakre  
Host: Mayo Clinic Rochester*  
Medical School: University of Minnesota

Anuj Aggarwal  
Host/Medical School: University of California, San Francisco*

Andrew Benjamin  
Host: Mount Sinai School of Medicine*  
Medical School: Loyola Stritch School of Medicine

Scott Bluth  
Host: University of Colorado, Denver*  
Medical School: University of Texas, Houston

Kevin Boegel  
Host: University of Pittsburgh Medical Center  
Medical School: University of Minnesota

Vaughn Braxton  
Host: Vanderbilt University  
Medical School: University of South Carolina School of Medicine

Meghan Brennan  
Host: University of Florida Medical Center*  
Medical School: University of Miami Miller School of Medicine

Morgan Brgoch  
Host: University of Utah Medical Center  
Medical School: Virginia Commonwealth University School of Medicine

Marissa Brown  
Host: Emory University School of Medicine*  
Medical School: University of North Dakota School of Medicine

Elizabeth Cedars  
Host/Medical School: University of California, San Francisco*

Sueie Chang  
Host: New York-Presbyterian Hospital (Columbia University)*  
Medical School: Columbia University, College of Physicians and Surgeons

Benazir Chhotani  
Host: University of Wisconsin, Madison  
Medical School: University of Illinois at Urbana-Champaign College of Medicine

Ann Chuang  
Host: University of Medicine and Dentistry of New Jersey (Newark)*  
Medical School: UMDNJ-Robert Wood Johnson Medical School

Manuel Cortes  
Host: University of California, Irvine*  
Medical School: University of California, Irvine School of Medicine

MSARF Program participant Jon Sol Oh presents his poster to FAER Board Member and ASA Vice President of Scientific Affairs Arnold J. Berry, MD, MPH, at the ASA Annual Meeting in San Diego, CA.
Richard Dekoltz  
Host/Medical School: Medical College of Wisconsin*

Linda Demma  
Host/Medical School: Emory University School of Medicine*

Dina Diskina  
Host/Medical School: University of Pennsylvania Medical Center*

Stanley Eosakul  
Host: Northwestern University’s Feinberg School of Medicine*  
Medical School: Tufts University School of Medicine

William Gao  
Host: University of Pennsylvania Medical Center*  
Medical School: Thomas Jefferson University

Julee Hong  
Host/Medical School: University of Colorado, Denver*  
Medical School: University of Michigan Medical School

Eliza Hong  
Host: University of Michigan Medical Center*  
Medical School: University of Michigan Medical School

Steven Immen  
Host: University of Iowa  
Medical School: University of Illinois Chicago

York Jiao  
Host: Washington University School of Medicine  
Medical School: University of Connecticut

Carolyn Kezar  
Host/Medical School: University of Alabama, Birmingham

Daniel Kim  
Host: University of Cincinnati  
Medical School: University of Cincinnati College of Medicine

Mitchell Kim  
Host: University of Washington  
Medical School: New York University School of Medicine

Ashley Lawler  
Host: Dartmouth-Hitchcock Medical Center  
Medical School: University of Miami Miller School of Medicine

Angela Lin  
Host: Cleveland Clinic Foundation*  
Medical School: Case Western Reserve University School of Medicine

Derek Lomas  
Host: Northwestern University’s Feinberg School of Medicine*  
Medical School: Chicago Medical School, Rosalind Franklin University of Medicine and Science

Yue Ma  
Host: Stanford University Medical Center*  
Medical School: University of Arizona College of Medicine

Janna Merte  
Host: University of Michigan Medical Center*  
Medical School: University of Michigan Medical School

Neil Mori  
Host: Mount Sinai School of Medicine (New York)*  
Medical School: Mount Sinai School of Medicine

Jerry Moulton  
Host: University of Chicago*  
Medical School: University of Arizona College of Medicine

Jin Sol Oh  
Host/Medical School: Medical College of Georgia

Alopi Patel  
Host: University of Medicine and Dentistry of New Jersey (Newark)*  
Medical School: UMDNJ-Robert Wood Johnson Medical School

Richard Philipp  
Host/Medical School: Medical University of South Carolina*

Soumya Rangarajan  
Host: Vanderbilt University  
Medical School: University of Illinois College of Medicine

MSARF Program participant Ashley Lawler presents her poster at the ASA Annual Meeting in San Diego, CA.
Aaron Reposar  
Host: Oregon Health and Science University  
Medical School: George Washington University School of Medicine and Health Sciences

Stefanie Robinson  
Host/Medical School: Medical University of South Carolina

Christine Ryan  
Host: Thomas Jefferson University-Jefferson Medical College  
Medical School: UMDNJ-Robert Wood Johnson Medical School

David Salek  
Host: University of Chicago*  
Medical School: Loyola University of Chicago, Stritch School of Medicine

Qasim Salimi  
Host: Children’s Hospital of Philadelphia*  
Medical School: UMDNJ-Robert Wood Johnson Medical School

Amandeep Sandhu  
Host: University of California, Irvine*  
Medical School: Virginia Commonwealth University School of Medicine

Brian Savoie  
Host: Massachusetts General Hospital  
Medical School: New York Medical College

Danielle Schlosser  
Host: Mayo Clinic Rochester*  
Medical School: University of Minnesota

Garrett Simmons  
Host: University of Texas, M.D. Anderson Cancer Center  
Medical School: Paul L. Foster School of Medicine

Christopher Southwood  
Host: Medical College of Wisconsin*  
Medical School: Indiana University School of Medicine

Michael Spertus  
Host/Medical School: University of Miami Miller School of Medicine*

Lauren Taylor  
Host: Children’s Memorial Hospital-Chicago  
Medical School: Northwestern University Feinberg School of Medicine

Eric Teplicki  
Host: University of Miami Miller School of Medicine*  
Medical School: New York University School of Medicine

Mitesh Thakkar  
Host: Cleveland Clinic Foundation*  
Medical School: Northeastern Ohio Universities College of Medicine

Nam Phuong Tran  
Host/Medical School: University of California, Irvine*

Tiffany Tsang  
Host: Stanford University Medical Center*  
Medical School: Texas Tech, Paul L. Foster School of Medicine

Robb Wasserman  
Host: University of Rochester-Strong Memorial Hospital  
Medical School: University at Buffalo, School of Medicine and Biomedical Sciences

Kevin Wong  
Host: New York-Presbyterian Hospital (Columbia)*  
Medical School: New York College of Osteopathic Medicine

Kevin Wong  
Host: Children’s Hospital of Philadelphia*  
Medical School: Philadelphia College of Osteopathic Medicine

Patrick Wu  
Host: University of Florida Medical Center*  
Medical School: University of Florida

Adham Zayed  
Host: SUNY Downstate Medical Center – Brooklyn  
Medical School: University of Vermont College of Medicine

Richard Zhu  
Host: Yale University  
Medical School: University of Maryland

*Institution sponsored at least one student’s participation in the MSARF Program.
Academy of Research Mentors in Anesthesiology

The FAER Academy of Research Mentors in Anesthesiology promotes the development of new mentors and role models in academic anesthesia, facilitating the development of educational and research programs for junior faculty and encouraging all faculty to mentor.

The Academy meets annually and conducts a workshop at the ASA Annual Meeting. The 2010 workshop, “Enhancing Departmental Research Through Mentorship,” explored how departments can develop both traditional and nontraditional research opportunities, including how to assemble the multidisciplinary teams to prepare trainees and how to form strategic partnerships with the wide variety of disciplines necessary for success in these areas. The workshop was moderated by Keith A. Jones, MD, and David O. Warner, MD. Presenters included Margaret Wood, MB, ChB; Mark F Newman, MD; and Sadis Matalon, PhD.

To highlight the value of outstanding mentors, in 2009 the Academy launched the annual FAER Mentoring Excellence in Research Award, which recognizes the successful development of mentees. The recipient of the 2010 award was Evan D. Kharasch, MD, PhD. He is Vice Chancellor for Research, the Russell D. and Mary B. Shelden Professor of Anesthesiology and Director of the Division of Clinical and Translational Research at the Department of Anesthesiology and Professor of Biochemistry and Molecular Biophysics at Washington University in St. Louis, MO.

For more information on the Academy, visit www.faer.org/about/mentor.
FAER Celebration of Research Events

In partnership with *Anesthesiology*, the journal of the ASA, FAER sponsors special scientific activities at the ASA Annual Meeting that promote the important role anesthesia education and research plays in keeping the specialty healthy: the FAER Honorary Research Lecture and the FAER Panel.

**Tenth Annual FAER Honorary Research Lecture**

The Annual Honorary Research Lecture recognizes outstanding scholarship by an anesthesiologist and encourages other anesthesiologists to undertake careers in research and teaching. The Tenth Annual Honorary Research Lecturer was Roger A. Johns, MD, MHS. He is Professor of Anesthesiology and Critical Care Medicine and Pulmonary Medicine and Critical Care at The Johns Hopkins University School of Medicine in Baltimore, MD.

Dr. Johns’ lecture explored “A FAER-fueled Career as a Clinician-scientist,” providing an appreciation of the value of FAER in launching the career of a clinician-scientist in anesthesiology, providing an understanding of the importance of mentorship and department support in developing clinician scientists, and providing novel insights into cellular mechanisms of pulmonary vascular disease and anesthesia.

Dr. Johns, a 1987 FAER grant recipient, is a clinician-scientist who specializes in cardio-thoracic anesthesia. Funded continuously by the National Institutes of Health for more than 20 years, Dr. Johns directs three NIH-funded basic science research programs, one in vascular biology of the pulmonary circulation and two in molecular neurobiology related to mechanisms of analgesia and anesthesia. He is also co-director and primary investigator on a Specialized Centers of Clinically Oriented Research grant focused on genomic and proteomic approaches to the diagnosis and etiology of pulmonary hypertension.

**FAER Panel**

The 2010 FAER Panel explored the question, “Do the Competing Missions of Education, Research and Clinical Care Allow for Quality Excellence?” The panel was moderated by George T. Blike, MD, Professor of Anesthesiology, Dartmouth College of Medicine and Dartmouth Hitchcock Medical Center in Lebanon, NH.

Panel participants discussed how quality excellence is a lifelong quest for all practicing anesthesiologists. However, the goals to perform research, education and clinical care can appear to be competing for the same limited resources. This panel surveyed the latest concepts in how research, education and clinical care are explicitly linked to quality and patient safety. They also provided differing perspectives on the question, “Do the goals of research, education and clinical care compete with or complement each other in the pursuit of quality excellence?” Panelists included:

- Charles Dean Kurth, MD, Anesthesiologist-In-Chief and Professor of Anesthesia and Pediatrics, Cincinnati Children’s Hospital, University of Cincinnati College of Medicine Cincinnati, OH.
- Brian Sites, MD, Associate Professor of Anesthesiology and Director of Orthopedic and Regional Anesthesia, Dartmouth-Hitchcock Medical Center, Lebanon, NH.
- Warren Sandberg, MD, PhD, Professor and Chair, Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, TN.
- Matt Weinger, MD, Norman Ty Smith Chair in Patient Safety and Medical Simulation and a Professor of Anesthesiology, Biomedical Informatics, and Medical Education and the Vice Chairman for Academic Affairs, Department of Anesthesiology; Director, Simulation Technologies Program, Center for Experiential Learning and Assessment; Vanderbilt University School of Medicine, Nashville, TN.
These highlights are based on unaudited financials for the year ended December 31, 2010. For a copy of the complete audited financials, please contact FAER at 507-266-6866 or faer@faer.org.

### ASSETS

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### LIABILITIES AND NET ASSETS

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<td>$2,584,694</td>
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## INCOME

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<td>ASA - Cerebral Function Monitoring Grants</td>
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<td>Corporate</td>
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<td>Other</td>
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<td><strong>$3,099,623</strong></td>
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*Individual donations increased dramatically in 2010 due to a donation of more than $450,000 from the estate of Gertie Marx, MD. Read more about Dr. Marx on page 25 of this report.*

## EXPENSES

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<th>Category</th>
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<td>Subspecialty Education Programs</td>
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<td><strong>$3,214,230</strong></td>
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</table>
How to Donate

Partner with FAER to encourage discovery and innovation and secure our specialty’s future! Your charitable investment will ensure the continuation of research grants and career development opportunities discussed in this report. You can give in many ways:

**Online**

Go to [www.faer.org](http://www.faer.org) and click the Donate Now button to make a one-time or sustaining cash donation with your American Express, Visa, or MasterCard.

**Mail**

Mail a check to:

Foundation for Anesthesia Education and Research
PO Box 157
Rochester, MN 55903

*You can also use the attached envelope and donation form.*

**Phone**

For more information on donating to FAER, including how to make a bequest, please contact:

David C. Wolfson, CFRE
Chief Development Officer
414-218-1135

“The quality of medical students who choose to enter anesthesiology has never been higher, and their enthusiasm for an academic career is exciting. FAER and AUA hope that supporting these talented people through the critical stages of their careers will expand research in anesthesiology, benefiting our specialty, our medical centers, and, most importantly, our patients.” – Ronald G. Pearl, MD, PhD, Professor and Chair, Associate Director of Critical Care, Department of Anesthesiology, Stanford University Medical Center, Stanford, CA; FAER Board Member; Past President, Association of University Anesthesiologists.


## 2010 Corporate Donors

### Gold Sponsors ($25,000-$49,999)
- Abbott Anesthesia

### Silver Sponsors ($10,000-$24,999)
- PPM

### Bronze Sponsors ($5,000-$9,999)
- Draeger Medical, Inc.
- Frank Moya Continuing Education Programs
- Lippincott Williams & Wilkins
- Minrad International, Inc.
- Philips Medical Systems
- Smiths Medical

### Sponsors ($1,000-$4,999)
- Auditing for Compliance & Education, Inc.
- King Systems Corp.
- Mainline Medical, Inc.
- Sierra Health Services, LLC
- Somanetics Corp.

### Contributors (Up to $999)
- Judith Jurin Semo, PLLC
- Haglund, Kelley, Horngren, Jones & Wilder, LLP
- ProSTAT Anesthesia Advisors

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“When I wrote my check to FAER this year, I thought about the incredible opportunities we have to address important questions of public health, if only we would step outside a purely service mindset.” – James C. Eisenach, MD, Francis M. James III Professor of Anesthesiology and Physiology and Pharmacology, Wake Forest University School of Medicine, Winston-Salem, NC; Editor-in-Chief, *Anesthesiology*, FAER Board Member.

---

## 2010 Private Practice

### Group/Anesthesiology Department Donors

#### $10,000 or More
- Mount Sinai School of Medicine (New York)
- University of Florida Medical Center
- University of Rochester-Strong Memorial Hospital

#### $5,000 to $9,999
- Anesthesia Medical Group
- Children’s Hospital of Boston
- Florida Clinical Practice Association, Inc.
- Massachusetts General Hospital
- North American Partners in Anesthesia, LLP
- University of Wisconsin, Madison

#### $2,000-$4,999
- Beth Israel Deaconess Medical Center
- University of Alabama, Birmingham

#### $1,000-$1,999
- Affiliated Anesthesiologists, Inc.
- Anesthesia Management Services, PC
- Anesthesiology Consultants of Virginia, Inc
- CAP Anesthesia, PC
- Park Slope Anesthesia
- Providence Anchorage Anesthesia Medical Group, PC
- Spectrum Medical Group
- State University of New York, Buffalo

#### Up to $999
- United Anesthesia Group, PC
- University at Buffalo Anesthesiology, Inc.
- University of Oklahoma Health Science Center
- University Physicians Healthcare
- Weill Medical College of Cornell University
- Alabama Anesthesia of Huntsville, LLC
- Anesthesia Associates of Columbus, PA
- Georgetown University Hospital
- Ozarks Anesthesia Associates, LLC
- Southern Tier Anesthesiologists, PC
- University of Cincinnati Medical Center
Donors

2010 Component Society Donors

| $10,000 or More                           | Oregon Society of Anesthesiologists, Inc. |
|                                           | Virginia Society of Anesthesiologists    |
|                                           | Washington State Society of Anesthesiologists |
| $5,000-$9,999                             | New Jersey State Society of Anesthesiologists |
|                                           | Ohio Society of Anesthesiologists       |
|                                           | South Carolina Society of Anesthesiologists |
|                                           | South Dakota Society of Anesthesiologists |
|                                           | Wisconsin Society of Anesthesiologists   |
| $1,000-$1,999                             | Alabama State Society of Anesthesiologists |
|                                           | Colorado Society of Anesthesiologists   |
|                                           | DC Society of Anesthesiologists         |
|                                           | Florida Society of Anesthesiologists    |
|                                           | Illinois Society of Anesthesiologists   |
|                                           | Iowa Society of Anesthesiologists       |
|                                           | Kansas State Society of Anesthesiologists |
|                                           | Kentucky Society of Anesthesiologists   |
|                                           | Maine Society of Anesthesiologists      |
|                                           | Maryland Society of Anesthesiologists   |
|                                           | Michigan Society of Anesthesiologists   |
|                                           | Missouri Society of Anesthesiologists   |
|                                           | Nebraska Society of Anesthesiologists   |

$2,000-$4,999

Arizona Society of Anesthesiologists
Pennsylvania Society of Anesthesiologists
Tennessee Society of Anesthesiologists
Texas Society of Anesthesiologists

Up to $999

Indiana Society of Anesthesiologists
Kansas City Society of Anesthesiologists
Mississippi Society of Anesthesiologists
New Hampshire Society of Anesthesiologists
New Mexico Society of Anesthesiologists
Rhode Island Society of Anesthesiologists
Vermont Society of Anesthesiologists
West Virginia Society of Anesthesiologists
Wyoming Society of Anesthesiologists

2010 Mentored Research Training Grant recipient Ben Julian A. Palanca, MD, PhD, in the lab at the Washington University School of Medicine in St. Louis, MO.

2010 Subspecialty Society Donors

| Founding Sponsor ($1,596,000)          | 2010 Mentored Research Training Grant recipient Ben Julian A. Palanca, MD, PhD, in the lab at the Washington University School of Medicine in St. Louis, MO. |
| Sustaining Sponsors ($10,000-$24,999)   | Academy of Anesthesia                     |
|                                         | Society for Education in Anesthesia       |
|                                         | Society for Neuroscience in Anesthesia and Critical Care |
|                                         | Society for the Advancement of Geriatric Anesthesia |
|                                         | Society of Academic Anesthesiology Associations |
|                                         | Society of Critical Care Anesthesiologists |
| Grand Sponsors ($25,000-$50,000)        | 2010 Mentored Research Training Grant recipient Ben Julian A. Palanca, MD, PhD, in the lab at the Washington University School of Medicine in St. Louis, MO. |
2010 Individual Donors

$25,000 or More

D. David Glass, MD*
Kathryn E. McGoldrick, MD*  
Mark and Mary Ellen Paloma Toledo, MD

$15,000-$24,999

Lee A. Fleisher, MD  
Joseph F. Antognini, MD*

$10,000-$14,999

Joanne Jene, MD*  
Melvin A. Cohen, MD

$5,000-$9,999

Ronald D. Miller, MD*  
Charles W. Otto, MD*  
Frank Moya, MD*

$2,000-$4,999

Charles A. Vacanti, MD*  
Susan Polk, MD

$1,000-$1,999

Sean K. Kennedy, MD*  
Melvin A. Cohen, MD

$500-$999

Richard R. Bartkowski, MD  
John Geiser, MD

$200-$499

Myron Yaster, MD  
Matthew Weinger, MD, MS

**The Medical Student Anesthesia Research Fellowship Program is just one of many reasons to support FAER and the work it does to strengthen and grow our specialty. I strongly encourage you to visit www.faur.org today to learn more about FAER and to make a donation.** – Donn M. Dennis, MD, FAHA

*Donor status as of 2010. List may reflect gifts and/or pledge commitments. Please let us know where listing may differ from your records.

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**FAER Annual Report | 23**
“Many of us find our calling at the patient bedside, holding hands and assuring our patients that we will do everything possible to keep them safe and comfortable for their surgery. Yet continued research is what enables us to keep this promise to our patients. Even if we are not actively involved in research, it behooves all practicing anesthesiologists to help those who are doing the research that will benefit every one of our patients in years to come.” – Mary B. Weber, MD, Staff Anesthesiologist and Medical Director of the Operating Room, Wyoming Medical Center; Adjunct Faculty for University of Wyoming Family Practice Residency Program, Casper, WY; Past President, Wyoming Society of Anesthesiologists.
Gertie Marx, MD, was a pioneer in anesthesiology, helping to establish obstetric anesthesiology as a subspecialty. Dr. Marx’s contributions to the practice of OB anesthesia include acute hydration for prevention of postspinal hypotension, studies of aorto-caval compression, and the use of regional anesthesia for emergency cesarean sections. She was honored with the ASA’s Distinguished Service Award in 1988. Often called “the Mother of Obstetric Anesthesia,” she passed away on January 25, 2004.

Dr. Marx’s passion for obstetric anesthesiology lives on through the Gertie Marx Research and Education Fund, which she established at FAER several years before her death. In 2005, this fund was the beneficiary of $220,000 from her estate, with contributions of roughly $30,000 to follow yearly thereafter. In 2010, FAER received an additional annuity from the estate of Dr. Marx worth more than $450,000.

Gertie Marx, MD, obstetric anesthesia pioneer and generous FAER benefactor.

2010 Foundation and Trust Donors

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<tr>
<th>Category</th>
<th>Donors</th>
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<td>Adolph H. Giesecke Jr, MD</td>
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<td>B. A. Gillen, MD</td>
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<td>Harriet A. Hamer, MD</td>
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<td>Bradley G. Hanebrink, DO</td>
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<td>Yumiko Ishizawa, MD</td>
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<td>Dr. and Mrs. Joannes Karis</td>
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<td>Roger D. Lillemoen, MD</td>
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<td>Angelita U. Luz-Tobias, MD</td>
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<td>MPH</td>
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<td>E. Lynne Williams, MD</td>
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<td>Gene Wu, MD</td>
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<td>Ian Y. Yang, MD</td>
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<td>$5,000-$10,000</td>
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<td>Matjasko-Chiu Foundation, Inc.</td>
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Survivor’s Trust Estate Under the Clarke Family Trust
## 2010 Individual Donors

### Gifts in Kind

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<th>Name</th>
<th>Donor Description</th>
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<td>Jesse M. Ehrenfeld</td>
<td>in honor of Alan D. Sessler, MD</td>
</tr>
<tr>
<td>Richard D. Urman</td>
<td>in honor of Alan D. Sessler, MD</td>
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</tbody>
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### In Honor

- Gregory C. Allen, MD, in honor of Alan D. Sessler, MD
- Timothy Angelotti, MD, PhD, in honor of Nicholas Angelotti
- Drs. Michael Avidan and George Maslough, in appreciation of FAER's contribution to their research endeavors
- Paul E. Bigras, MD, in honor of Denham Ward, MD, PhD
- Charles M. Brohm, MD, in honor of Drs. Louise and Donald Smith
- Bruce R. Brookens, MD, PC, in honor of Thomas Hornbein, MD
- Debra Bulter, CPA, MBA, in honor of Denham S. Ward, MD, PhD
- Jason A. Campagna, MD, PhD, in honor of Keith Baker, MD, PhD
- Ian Carroll, MD, in honor of Joseph and Roberta Carroll
- Harry Cohen, MD, in honor of Martin Heirich, MD
- Alan E. Curle, MD, in honor of Denham S. Ward, MD, PhD
- Mark L. D’Agostino, MD, in honor of J. Pat O’Gara, MD
- Michael Eaton, MD, in honor of Denham S. Ward, MD, PhD
- John H. Eisenach, MD, in honor of Alan D. Sessler, MD
- Ms. Christal L. Engelhardt, in honor of Douglas G. Merrill, MD, and Eugene R. Viscusi, MD
- Jeanne S. Garnett, in honor of Gordon M. Garnett, MD
- Charles P. Gibbs, MD, in honor of Milton H. Alper, MD
- Laurent G. Glance, MD, in honor of Denham S. Ward, MD, PhD
- Glenn S. Goldsby, MD, in honor of Dr. Jeffry Gross
- Jonathan Griswold, MD, MS, in honor of Morton Rosenberg, DMD
- Mr. and Mrs. Nathan D. Grunewald, in honor of Alan D. Sessler, MD, and the FAER Staff
- Alexander A. Hannenberg, MD, in honor of Lauren Cornella, MD, and the Rhode Island Society of Anesthesiologists
- Brian E. Harrington, MD, in honor of Gale Thompson, MD
- Joseph Himes, MD, in honor of John P. Kampine, MD, PhD
- Andrew J. Houlton, MD, in honor of William H. Houlton, MD
- Francis M. James, III, MD, in honor of David Longnecker, MD
- Suzanne B. Karon, MD, in honor of Denham S. Ward, MD, PhD
- John E. Kemp, MD, in honor of D. Robert Buechel, MD
- Susan R. Lisman, MD, in honor of Alexander A. Hannenberg, MD
- Anne M. Lynn, MD, in honor of Thomas Hornbein, MD
- Brian P. McGlinchey, MD, in honor of Alan D. Sessler, MD
- Fredrick K. Orkin, MD, in honor of Alan D. Sessler, MD
- Patricia H. Petrozza, MD, in honor of M. Jane Matjasko, MD
- David M. Polaner, MD, in honor of Warren M. Zapol, MD
- James A. Prentice, MD, in honor of Alan D. Sessler, MD
- Jerome Parness, MD, PhD, in honor of Alan D. Sessler, MD
- Mary D. Peterson, MD, in honor of James F. Arens, MD
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### Honoraria

- Georgia Society of Anesthesiologists, Inc., honorarium for Jerry A. Cohen, MD
- Haglund, Kelley, Hornigren, Jones & Wilder, LLP, honorarium for Jeffrey R. Kirsch, MD
- Iowa Society of Anesthesiologists, honorarium for John Zerwas, MD
- Lippincott Williams & Wilkins, honorarium for the authors and editors of “Avoiding Common Anesthesia Errors”
- University of Cincinnati Medical Center, honorarium for Jerry Cohen, MD

### In Memory

- Corrie T. M. Anderson, MD, in memory of Lewis I. Williams, III
- Robert F. Bedford, MD, in memory of Donald Clark, MD
- George C. Bell, MD, in memory of Leroy D. Vandam, MD
- Philip F. Boyle, MD, in memory of Eugene H. Boyle, MD
- Louise E. Brockman, in memory of Gordon M. Garnett, MD
- John F. Butterworth, IV, MD, in memory of Leroy Vandam, MD and Benjamin Covino, MD
- Marlene V. Chu, MD, in memory of Lolita Lennox
- CAP Anesthesia, PC, in memory of Paul Levesque, MD
- James G. Carter, MD, in memory of Jack Meyers, MD
- Harry J. Cozen, MD, in memory of Mr. Monte Monfore
- El Dorado Community Foundation, in memory of John William Pender, MD
- James C. Erickson, III, MD, in memory of Patrick Sim, MLS
- Elizabeth A. Frost, MD, in memory of Louis R. Orkin, MD
- Prasad D. Gadiraju, MD, in memory of Michael Jackson
- Jeanne S. Garnett, in memory of Gorden M. Garnett, MD
- Ian J. Gilmour, MD, in memory of Jon F. Berlauk, MD
- William L. Greer, MD, in memory of Leonard D. Fenninger, MD
- Andrew Herlich, MD, in memory of Alvin S. Herlich and Betty and Irving Luftman
- Robert P. Introna, MD, in memory of Zachariah Gramling, MD
- Jacob Israel, MD, in memory of Charles Beattie, MD, and LeRoy Vandam, MD
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- Mississippi Society of Anesthesiologists, in memory of Mrs. Lynn Caine Mark C. Norris, MD, in memory of Samuel C. Hughes, MD
- Fredrick K. Orkin, MD, in memory of Louis Orkin, MD, Garfield Russell, MD, and Leroy D. Vandam, MD
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- Texas Society of Anesthesiologists, in memory of Julius H. Spence, MD, and Thomas H. Almond, MD
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- John P. Williams, MD, DO, in memory of Joseph C. Gabel, MD
- Gerald L. Zeitlin, MD, in memory of Leroy D. Vandam, MD
Introducing the Society for Anesthesia Education and Research

In 2010 FAER launched a new mechanism for academic departments and practice groups to support FAER’s mission. Membership in the Society for Anesthesiology Education and Research (SAER) provides recognition for anesthesia departments and practice groups that support FAER’s existing research programs and the development of new opportunities. Yearly dues are $5,000.

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2010 Mentored Research Training Grant recipient Jennifer K. Lee, MD, in the lab at Johns Hopkins University in Baltimore, MD.
FAER Board and Staff

FAER Names New President

The FAER Board of Directors is pleased to announce that they have appointed Denham S. Ward, MD, PhD, as successor for longtime FAER President Alan D. Sessler, MD. Dr. Ward will begin as FAER President in July 2011. He is currently FAER Board Chair and Chair of the Department of Anesthesiology and Associate Dean for Faculty Development-Medical Education at the University of Rochester in Rochester, NY.

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Left to right: FAER Board member and Chair of the Medical Student Anesthesia Research Fellowship Program, Donn M. Dennis, MD, FAHA; FAER Associate Director Mary M Schrandt, MAOM; MSARF Program sponsor Ronald L. Katz, MD; and FAER Board Member and ASA Immediate Past President Alexander A. Hannenberg, MD.