

FAER 

*Foundation for Anesthesia
Education and Research*



FUNDING RESEARCH
IN ANESTHESIOLOGY

ANNUAL
REPORT 2017

“FAER is a vital resource to young physician-scientists in anesthesia and related fields.” – Warren M. Zapol, M.D. and Nikki Zapol, J.D.



FAER: ATTRACTING THE BEST INVESTIGATORS; ELEVATING OUR SPECIALTY

Dear FAER Supporters:

2017 was an exciting year for FAER and I thank you all for being part of our many successes. Below is just a snapshot of the impact FAER has made in the past year.

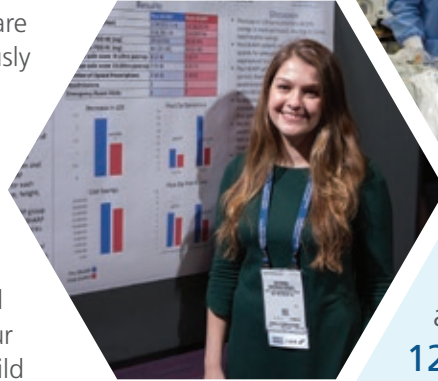
This past year was also one of growth for the FAER Board of Directors.

With a shift to more strategic planning, we started to look at FAER's core programs to ensure we are doing our best with the resources you generously provide. The end of 2017 saw the start of this work with a task force to evaluate our flagship grant, the *Mentored Research Training Grant*, which led to a 40% increase in the total funding amount to \$250,000, starting in 2019, and a new self-standing meeting. I am encouraged by this new strategic direction and know that it will result in us reaching out to our many stakeholders for feedback in order to build and improve on what we already do well.

None of these efforts would be possible without your dedication, commitment and investment in developing the next generation of physician-scientists in anesthesiology. I am happy to provide you with a snapshot and financial wrap-up of our year completed on December 31, 2017. You will find this information near the end of this report along with key highlights from 2017. Thank you for your commitment to the specialty and for understanding the important role that FAER plays in its future.

Warm Regards,

Paloma Toledo, M.D., M.P.H.
Chair, FAER Board of Directors



FAER
awarded funding to
12 grant recipients
committing
\$1.825 million
for new funding

FAER's
Medical Student
Anesthesia Research
Fellowship Summer
Program matched
**49 students at
36 host sites**



FAER's
Resident Scholar
Program sponsored
**51 residents at
ANESTHESIOLOGY® 2017**

"As the current President of ASA and a FAER Board member, I have witnessed firsthand how these two organizations come together to strengthen the future of our specialty through research. I am pleased to be able to offer my thanks to you and other loyal FAER donors for your support to FAER in 2017. Your commitment to FAER's mission is very much appreciated by the ASA, volunteers and staff. As ASA continues to change and grow, I know that FAER will be an important partner." – James D. Grant, M.D., M.B.A., FASA

FAER 2017 GRANT RECIPIENTS

For 31 years, FAER has supported high-quality research, one of its greatest contributions to the field. By offering a range of grants, including Mentored Research Training Grants (MRTG) in basic science, clinical/translational and health services research, Research Fellowship Grants (RFG) for residents to obtain training in research techniques and scientific methods, Research in Education Grants (REG) focused

on the development of innovative education techniques, and Transition to Independence Grants (TIG) to help junior faculty transition from mentored to independent research, *FAER is transforming the field of anesthesiology by funding the research of talented investigators*. FAER-funded anesthesiologists have built on their successes continuing the evolution of medicine through their work.

MENTORED RESEARCH TRAINING GRANT

The following individuals were awarded Mentored Research Training Grants. These awards are \$175,000 over a two-year period.

SPRING CYCLE

“Funding new investigators is at the core of FAER’s mission. We funded approximately 1/3 of the applications in this Spring’s cycle, a much higher pay line than the NIH, and are thrilled with the quality of the awardees.” – James C. Eisenach, M.D., FAER President and CEO

Mentored Research Training Grant—Basic Science



Aaron J. Norris, M.D., Ph.D.;
Washington University in St. Louis
Examination of Isoflurane Activated Neural Circuits
Primary Research Mentor: Michael R. Bruchas, Ph.D.
Secondary Research Mentor: Michael S. Avidan, MBBCh



Quintin J. Quinones, M.D., Ph.D.;
Duke University
Reversible Immunodulation as a Strategy for Ischemia Tolerance in Hibernation
Primary Research Mentor: Mihai V. Podgoreanu, M.D.
Secondary Research Mentor: Kent J. Weinhold, Ph.D.



Peter D. Yim, M.D.; **Columbia University**
GABAA Modulation of Myogenic Tone in Vascular Smooth Muscle- Novel Therapy of Hypertension
Primary Research Mentor: Charles W. Emala, M.D.
Secondary Research Mentor: Dan E Berkowitz, M.D.

Mentored Research Training Grant—Clinical/Translational



Keith M. Vogt, M.D., Ph.D.;
University of Pittsburgh
Human memory encoding under anesthesia: how pain affects hippocampal and amygdalar contributions to memory
Primary Research Mentor: Julie A. Fiez, Ph.D.
Secondary Research Mentor: Howard B. Gutstein, M.D.

Mentored Research Training Grant—Health Services Research



Adam J. Kingeter, M.D.;
Vanderbilt University Medical Center
Use of a Value-Driven Electronic, Milestone-Based Clinical Pathway to Improve Value for Patients Undergoing Coronary Artery Bypass Grafting Surgery
Primary Research Mentor: Pratik P. Pandharipande, M.D., MSCI
Secondary Research Mentor: Melinda Buntin, Ph.D.

FALL CYCLE

“It is essential that we as a specialty support the development of new knowledge. FAER grants will not only help make important scientific contributions but continue a long tradition of anesthesiologists improving the quality and safety of the care that we deliver to our patients.”

– Paloma Toledo, M.D., M.P.H., Chair, FAER Board of Directors

Mentored Research Training Grant – Clinical or Translational



Julie K. Freed, M.D., Ph.D.;
Medical College of Wisconsin
Novel Role of Sphingolipids in Maintaining Vascular Homeostasis
Primary Research Mentor: David D. Gutterman, M.D.
Secondary Research Mentor: Thomas J. Ebert M.D., Ph.D.



Elizabeth L. Whitlock, M.D., MSc; **The Regent of the University of California, San Francisco**
Cognitive Trajectories Before and After Coronary Revascularization in the Elderly
Primary Research Mentor: Alexander K. Smith, M.D., M.P.H.
Secondary Research Mentor: Jacqueline M. Leung, M.D.



Loren E. Smith, M.D., Ph.D.;
Vanderbilt University Medical Center
High Density Lipoprotein Particle Characteristics and the Risk of Acute Kidney Injury After Cardiac Surgery
Primary Research Mentor: MacRae F. Linton, M.D.
Secondary Research Mentor: Frederic T. Billings, M.D.



Mentored Research Training Grant – Health Services Research

Mark C. Bicket, M.D.; **Johns Hopkins University School of Medicine**
Consequences of non-optimal opioid prescribing after surgery
Primary Research Mentor: G. Caleb Alexander, M.D.
Secondary Research Mentor: Peter J. Pronovost, M.D., Ph.D.

RESEARCH IN EDUCATION GRANT

The following individual was awarded a Research in Education Grant (REG). REG awards are \$100,000 over a two-year period.

FALL CYCLE

Research in Education Grant



Allison J. Lee, M.D.; **Columbia University**
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
Primary Research Mentor: Madhabi Chatterji, Ph.D.
Secondary Research Mentor: Ruth Landau, M.D.
Supported by The Gertie Marx Endowment Fund

RESEARCH FELLOWSHIP GRANTS

The following individual was awarded a Research Fellowship Grant (RFG). RFG awards are \$75,000 over a one-year period.

SPRING CYCLE

Research Fellowship Grant



Andrew M. Slupe, M.D., Ph.D.; **Oregon Health and Science University**
Axon pruning governed by Bax during development and following exposure to volatile anesthetic
Primary Research Mentor: Kevin M. Wright, Ph.D.
Secondary Research Mentor: Ines P. Koerner, M.D., Ph.D.

TRANSITION TO INDEPENDENCE GRANT

The following individual was awarded a Transition to Independence Grant (TIG). TIG awards aim to support the transition of investigators from mentored training-focused support to independent (non-mentored) research support. TIG awards are \$75,000 over a one-year period.

FALL CYCLE



Transition to Independence Grant
Sajid Shahul, M.D., M.P.H.; **University of Chicago**
Esmolol To Control Adrenergic Storm in Septic Shock
Primary Research Mentor: Jeffrey L. Apfelbaum, M.D.



FAER at ANESTHESIOLOGY® 2017

Through the Friends of FAER Reception, donors were recognized for their commitment to FAER grants and programs at a formal event held at the State Room in Boston.

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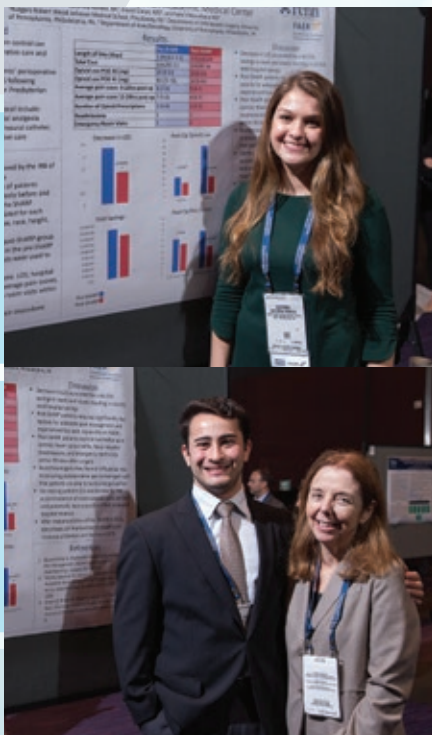




Swimming with Sharks: How Anesthesiologist Inventors Can Move Their Ideas Forward

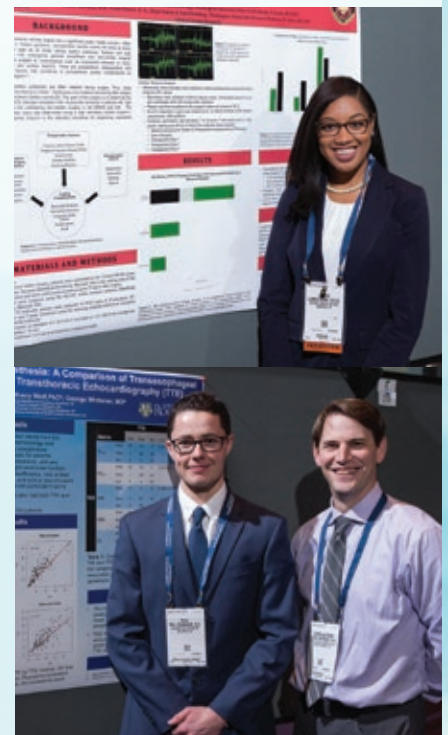
Anesthesiology has a long history of innovation, entrepreneurship, and close interactions between academicians, private practitioners, and industry to bring new concepts to the clinical arena and better care for patients. Presented for the first time 2017, this session was in honor of FAER Board Member Dr. Theodore (Ted) Stanley. It showcased anesthesiologists with ideas for innovations and a panel of experts involved in developing such innovations to market in order to educate the audience regarding the steps involved in the process.

FAER Medical Student Anesthesia Research Fellowship (MSARF) Symposium



“My home institution doesn’t have a lot of opportunity in terms of anesthesia-specific research. I’ve never really been able to make my mind up about continuing with academic research after graduating from medical school but having a chance to be exposed to anesthesia research has definitely shifted me toward remaining active in the research community. There are so many other avenues of research in anesthesia that I had very little knowledge of before participating in this program. It opened my eyes to the opportunities available outside of strictly patient care in anesthesia.”

– 2017 MSARF Participant



2017 CONTRIBUTORS *Investing In The Future*

Thank you for your support of the Foundation for Anesthesia Education and Research in 2017. By supporting anesthesiology research and scientific discovery, you have made possible life-enhancing advances in medicine and improvements in patient care. You have enabled talented anesthesiologists pursuing new knowledge to transform our specialty and, most importantly, to improve lives.

This report recognizes donations made between January 1, 2017 and December 31, 2017. 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.

NOTE: Individual contributors with a (+) have supported FAER for 10 or more consecutive years (2008-2017).

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“FAER funds discovery that drives improvements in our practice and is developing the next generation of anesthesiologist-scientists who, building on the great work of our mentors, will continue to transform clinical care. I am deeply grateful for the investment FAER and its many donors have made in my research, and am honored to work on behalf of my patients and the anesthesiology community to make real contributions toward a safer, better perioperative experience.”

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recipient, Mentored Research
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**– Mark C. Bicket, M.D., recipient,
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The FAER Mentoring Excellence in Research Award honors those individuals who, through their activities as mentors, have contributed importantly to the development and advancement of academic anesthesiologists in the area of research, and have promoted the activities of mentoring among others in the specialty, increasing

academic activity in research and enhancing research success in academic anesthesiology. FAER was delighted to recognize J.A. Jeevendra Martyn, M.D., FRCA, FCCM, FCP as the 2017 Mentoring Excellence in Research Award recipient. The majority of Dr. Martyn's mentees have pursued academic careers and many have become major figures in anesthesiology, one of its subdisciplines, or in neuromuscular research.

“While Dr. Martyn’s accomplishments are demonstrated by his unparalleled track record as a basic and clinical science investigator, it is his dedication to his mentees, both formal and informal, that distinguishes him from other academic giants. His disarming ability to excel simultaneously in clinical care, teaching, and clinical and basic science research mark him as a role model for academic anesthesiologists.”

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“[Martyn]’s educational prowess is evidenced not only in the knowledge he imparts to his peers, fellows, and residents, but also in the example he sets as an educator.

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“The true measure of a consummate mentor is the relationship and interaction that exist between mentor and mentee. [Martyn]’s efforts on my behalf go far beyond his scientific knowledge and grantsmanship. He has shown himself to be an exceptional advisor, teacher without peer, stalwart skilled scientist, colleague, and sensitive supportive friend.”

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Mentorship is a vital component to building a successful and productive career in medicine. Many FAER donors have chosen to recognize the outstanding mentors who support and guide future physician-scientists by making tribute gifts to the foundation in their honor.

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*“In the past year, the field of anesthesiology has lost four iconic figures and true leaders in academic anesthesiology. **Bill Hamilton** (my departmental chairman who arguably lead the most outstanding academic anesthesia department in the world), **Ted Eger** (my research advisor and the most published anesthesiologists of all-time who used his infamous red pen to meticulously edit all our manuscripts), **Ted Stanley** (an innovative pharmacologist and entrepreneur who knew how to enjoy the finer things in life) and **Ron Katz** (a charismatic colleague who liked to tell you that he was “an expert in everything related to anesthesia”). To advance as a specialty, anesthesiology needs to invest in developing clinical scientists like these four great leaders who had the ability to think ‘outside the box.’ This is particularly true in developing novel approaches to acute perioperative and chronic pain management. Given the worsening opioid epidemic in this country, there is a clear need for innovative (‘alternative’) approaches to treating pain. Hopefully, the Foundation for Anesthesia Education and Research will support young physicians who aspire to make clinically-meaningful differences in the field of academic anesthesia and pain management in the future.”*

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The FAER-Helrich Research Lecture recognizes outstanding scholarship by a scientist. It is part of an effort by the Foundation of Anesthesia Education and Research (FAER) to encourage early-career anesthesiologists and trainees to consider careers in research and teaching.

The 2017 FAER-Helrich Research Lecture was presented by Dr. George Mashour, and focused on the near-death experience, which affects 10-20% of patients who suffer cardiac arrest. Dr. Mashour described how the neurobiology of consciousness, as well as techniques to monitor anesthetic-induced unconsciousness, have informed the first scientific investigations of the near-death experience.

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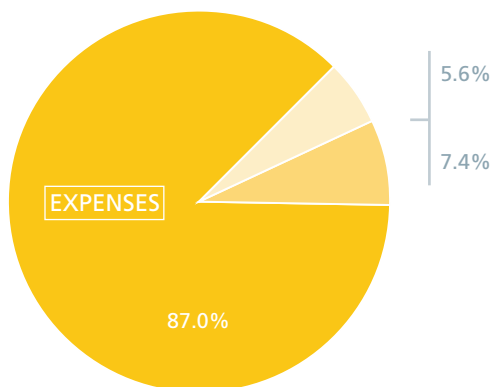
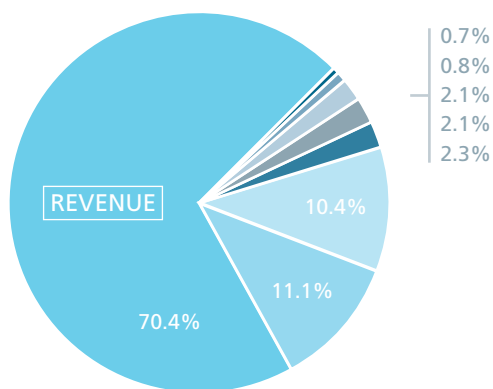
FISCAL YEAR 2017 HIGHLIGHTS

REVENUE

Corporate	\$20,647
Other Societies	\$60,500
Component Societies	\$59,665
Individuals	\$315,684
Practice Groups	\$23,250
Foundations	\$66,784
Schools	\$296,026
American Society of Anesthesiologists	\$2,000,000
Other	\$0
	\$2,842,555

EXPENSES

Program Services	\$3,214,015
Fundraising	\$208,067
Management & General	\$273,711
	\$3,695,794



STATEMENT OF FINANCIAL POSITION (As of December 31, 2017)

ASSETS

Cash	\$731,603
Receivables and Other Assets	\$73,009
Investments	\$26,060,255
Beneficial Interest in Trust	\$776,098
Other	\$23,210
Total Assets	\$27,664,175

LIABILITIES AND NET ASSETS

Liabilities	\$2,034,061
Unrestricted Net Assets	\$22,692,269
Restricted Net Assets	\$2,937,845
Total Liabilities & Net Assets	\$27,664,175

Thank you for your support!

PLANNED/ESTATE GIVING

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