2022 Annual Report

Ramping Up Research
2022 Accomplishments

Awarded $2,875,000 to 15 Research Grant Recipients

Matched 61 Medical Student Anesthesia Research Fellows to 39 Host Sites

Sponsored 54 Resident Scholars to Attend and Present at ANESTHESIOLOGY® 2022
On behalf of the American Society of Anesthesiologists (ASA), I’d like to sincerely thank all those who joined with ASA in donating to FAER in 2022. Although it’s been said many times, the point bears repeating: **research is fundamental to the future of anesthesiology.** And support during the early stages of an investigator’s research journey can be critical to pursuing and to flourishing in this vital career path. FAER’s track record of success in developing the next generation of physician scientists is truly remarkable. While not a researcher myself, as a past FAER Board member and Treasurer, I’ve seen firsthand the Foundation’s success in equipping anesthesiology’s new investigators with the tools they need to excel. In 2022, that success included the continued growth of its Medical Student Anesthesia Research Fellowship (MSARF) program, the post-pandemic return of its Annual MRTG Meeting, and new inter-societal collaborations. All of this was made possible by FAER’s wonderful donors. So, on behalf of all those who benefit from research in our specialty, whether clinicians, patients, or researchers themselves, allow me to say it again: thank you for supporting FAER!

Michael W. Champeau, MD, FAAP, FASA  
President, American Society of Anesthesiologists
2022 Grant Recipients

Since 1986, FAER has supported high-quality research to foster the development of early career investigators in anesthesiology. By offering a range of grants, FAER is continually transforming the field of anesthesiology by funding the research of talented investigators. Its Mentored Research Training Grants (MRTG) help anesthesiologists develop the skills, preliminary data for subsequent grant applications, and research publications needed to become independent investigators. Research Fellowship Grants (RFG) help residents obtain training in research techniques and scientific methods. Research in Education Grants (REG) focus on the development of innovative education techniques in the field, and GEMSSTAR Grants supplement two-year awards from the National Institute on Aging (NIA) with support for development activities.

FAER-funded anesthesiologists have built on their success, continuing the evolution of medicine through their work. We celebrate our 15 grantees in 2022 and their projects below.

Mentored Research Training Grant

Jessica Ansari, MD
Spring 2022
Calcium Chloride for the Prevention of Blood Loss During Intrapartum Cesarean Delivery: A Single Center Randomized Controlled Trial with Nested Pharmacokinetic and Pharmacodynamic Study
Stanford University School of Medicine
Primary Mentor: Brian Bateman, MD, MSc
Secondary Mentor: Steven Shafer, MD, FASA
Tertiary Mentor: Sean Mackey, MD, PhD

Mark Arcario, MD, PhD
Spring 2022
Understanding Allosteric Modulation of Pentameric Ligand-Gated Ion Channels by Fatty Acids
Washington University School of Medicine
Primary Mentor: Wayland W.L. Cheng, MD, PhD
Secondary Mentor: Grace Brannigan, PhD

Erin Ciampa, MD, PhD
Spring 2022
Mitochondrial and Metabolic Effectors from the Aging Placenta May Trigger the Onset of Labor
Beth Israel Deaconess Medical Center
Primary Mentor: Samir M. Parikh, MD
Secondary Mentor: Philip Hess, MD

Candida Goodnough, MD, PhD
Spring 2022
Understanding Anesthetic Mechanisms in the East Asian Population
Stanford University School of Medicine
Primary Mentor: Eric R. Gross, MD, PhD
Secondary Mentor: Hemal H. Patel, PhD
Tertiary Mentor: Boris D. Heifets, MD, PhD

Elvedin Lukovic, MD, PhD
Spring 2022
Targeting Airway Hyperresponsiveness and Antioxidant Responses in Airway Smooth Muscle by Ginger-inspired Compounds: A Potential Novel Therapeutic Class for Asthma
Columbia University
Primary Mentor: Charles W. Emala Sr., MD, MS
Secondary Mentor: Shengmin Sang, PhD
Mentored Research Training Grant (cont)

Marsha E. Ritter Jones, MD, PhD
Fall 2022
The Role of Neuronal-Derived MD-1 on Cutaneous Inflammation
University of Pittsburgh Medical Center
Primary Mentor: Kathryn Albers, PhD
Secondary Mentor: Brian Williams, MD, MBA
Tertiary Mentor: Senthil Sadhasivam, MD, MPH, MBA, FASA

Tori Sutherland, MD, MPH
Fall 2022
Pain Management, Prolonged Opioid Use and New Chronic Pain among Adolescents Undergoing Surgery: A Mixed Methods Analysis
Children's Hospital of Philadelphia
Primary Mentor: Mark D. Neuman, MD, MSc
Secondary Mentor: Scott Hadland, MD, MPH

Nabil Thalji, MD, PhD
Fall 2022
In Vivo Characterization of the Kinetics of Clot Initiator Termination
University of Pennsylvania
Primary Mentor: Lindsey George, MD

Elizabeth Townsend, MD, PhD
Spring 2022
The Role of Alveolar Macrophage-derived Eicosanoids in the Regulation of Airway Inflammation
University of Wisconsin-Madison
Primary Mentor: Loren C. Denlinger, MD, PhD
Secondary Mentor: Thomas McDowell, MD, PhD

Research Fellowship Grant

Dayle Hodge, MD, PhD
Fall 2022
Aligned Collagen Nanofibrillar Scaffolds and Hypoxia Synergistically Drive Endothelial-Mesenchymal Transition
Oregon Health & Science University
Primary Mentor: Karina Nakayama, PhD
Secondary Mentor: Nabil Alkayed, MD, PhD

Research In Education Grant

Ruma Bose, MD
Fall 2022
Developing Proficiency in Rescue Echo Guided Crises Management using a Modular Competency Based Curriculum for Advanced Learners in Anesthesia
Beth Israel Deaconess Medical Center
Primary Mentor: Robina Matyal, MD, MBBS
Secondary Mentor: Cullen Jackson, PhD

Odinakachukwu Ehie, MD
Spring 2022
Development and Evaluation of a Longitudinal Diversity Curriculum for Trainees: Applied Behaviors to Confront Unconscious Bias and Microaggression and Facilitate Allyship
University of California, San Francisco
Primary Mentor: Christy Boscardin, PhD
Secondary Mentor: Renee Navarro, PharmD, MD

Hina Faisal, MD, MRCS, MBBS
Fall 2022
Virtual Reality-Based Cognitive Intervention For The Prevention of Delirium & Cognitive Impairment In Geriatric Surgical Patients
Methodist Hospital Research Institute
Primary Mentor: Stephen T.C. Wong, PhD
Secondary Mentors: Eugene C. Lai, MD; Faisal N. Masud, MD

Daniel Rubin, MD
Fall 2022
At-home Gait-cadence Functional Assessment and Recovery Trajectory for Older Adults Undergoing Major Abdominal Surgery
University of Chicago
Primary Mentor: Megan Huisingh-Scheetz, MD
Secondary Mentors: Daniel Corcos, PhD; Margaret Danilovich, PhD; Mark Ferguson, MD; Jacek Urbanek, PhD
Annual MRTG Meeting

The Annual MRTG Meeting was held in 2022 with the aim of creating a community for current MRTG awardees as they move forward in their careers. Taking place in Washington, DC, this two-and-a-half-day program provided career development lectures and exercises, networking, the opportunity to meet with NIH program officers, and a mock study section.

Investigators on the Elevator

Following the 2022 Annual MRTG Meeting, grantees were asked to record a brief, elevator pitch-style video summarizing their research. Using these pitches, FAER launched the Investigators on the Elevator social media series in August 2022. Each episode of this 12-part series highlighted a different grantee’s research journey and pitch video. Based on the original series’ positive reception, Investigators on the Elevator will be produced annually. The full catalogue of 2022 pitch videos is available at FAER.org/Elevator-Pitches, with episodes of the social media series available on the @FAERanesthesia Twitter profile.
From FAER to Federally Funded

FAER congratulates its past grantees who received National Institutes of Health (NIH) R awards in 2022. NIH awards, like FAER’s own awards, ensure the continued growth of both anesthesiology as a specialty as well as its practitioners. The investigators listed below exemplify a commitment to this growth, which FAER strives to foster in its grantees. We look forward to seeing the important work these individuals conduct through the NIH’s funding.

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<tr>
<th>NIH R01 Award</th>
<th>NIH R21 Award</th>
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<td><strong>Miles Berger, MD, PhD</strong>&lt;br&gt;Low Neurophysiologic Resistance to Anesthetics as a Marker of Preclinical/Prodromal Alzheimer’s Disease and Neurovascular Pathology, Delirium risk and Inattention&lt;br&gt;2016 GEMSSTAR</td>
<td><strong>Vivianne L. Tawfik, MD, PhD</strong>&lt;br&gt;Cellular Senescence in Chronic Pain and Aging&lt;br&gt;2015 MRTG</td>
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| **Julie K. Freed, MD, PhD**<br>Dual Functionality of Ceramide in Human Microvascular Endothelial Function<br>2017 MRTG | **Meredith C. Adams, MD, FASA**<br>Wake Forest IMPOWR Dissemination Education and Coordination Center (IDEA-CC)<br>2015 REG |

| **Paul M. Riegelhaupt, MD, PhD**<br>Pore Potassium Channel Gating and Regulation<br>2016 MRTG | **Mitra Heshmati, MD, PhD**<br>Mechanisms of Emergence from General Anesthesia<br>2020 MRTG |

| **Soban Umar, MD, PhD**<br>Investigating the Molecular Mechanisms of Right Ventricular Failure in Pulmonary Hypertension<br>2015 MRTG | **Keith M. Vogt, MD, PhD, FASA**<br>Neuroimaging to Identify the Neural Correlates of Anesthetic and Analgesic Action in Humans<br>2017 MRTG |

| **Elizabeth L. Whitlock, MD, MSc**<br>Predicting Long-term Cognitive Outcomes and Alzheimer’s Disease and Related Dementias After Major Noncardiac Surgery for Older Adults<br>2018 GEMSSTAR<br>2017 MRTG | **Norman E. Taylor, MD, PhD**<br>Development and Validation of a Novel Rat Model of Fibromyalgia<br>2014 MRTG |

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<th><strong>NIH R24 Award</strong></th>
<th><strong>NIH R35 Award</strong></th>
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<td><strong>Meredith C. Adams, MD, FASA</strong>&lt;br&gt;Wake Forest IMPOWR Dissemination Education and Coordination Center (IDEA-CC)&lt;br&gt;2015 REG</td>
<td><strong>Mitra Heshmati, MD, PhD</strong>&lt;br&gt;Mechanisms of Emergence from General Anesthesia&lt;br&gt;2020 MRTG</td>
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<tr>
<td><strong>Norman E. Taylor, MD, PhD</strong>&lt;br&gt;Development and Validation of a Novel Rat Model of Fibromyalgia&lt;br&gt;2014 MRTG</td>
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Medical Student Anesthesia Research Fellowship (MSARF) Program

The 2022 MSARF program received 234 applications. The program matched 61 students to 39 host institutions. In addition to the in-person fellowship, FAER continued to implement virtual components into the program. The series consisted of online content including virtual panel presentations on anesthesia and anesthesia research, journal clubs on recent literature, and the opportunity to connect with a mentor and other students in small groups.

Each aspect of the virtual program was facilitated by physician-investigators that helped guide medical students through the program. These individuals were selected as mentors through the MSARF application process in the fall of 2021. All volunteers had a history of mentoring medical students in research and were the ideal mentors for the 2022 participants.

“I loved this program,” said an MSARF participant. “It really expanded my horizons about the scope of research that anesthesia really has. I also loved the opportunity to do research at a different institution than my home institution. It allowed me to build connections and learn a lot about the different cultures out there.”

The program concluded with the FAER/eSAS: A Day for New Researchers event at ANESTHESIOLOGY 2022 in New Orleans. The event included educational sessions and moderated poster sessions that enabled students to present their research and network with fellow students, residents, and moderators.

“I had no clue that there were so many opportunities for research in anesthesiology, and feel so excited to pursue a career in anesthesiology and research!” – Brooke Tobias, MSARF student
ANESTHESIOLOGY® 2022

ANESTHESIOLOGY convened in festive New Orleans in 2022. The annual meeting was host to another successful A Day for New Researchers, competitive Swimming with Sharks, and engaging FAER-Helrich Research Lecture. A lively Friends of FAER Reception took place at the renowned National WWII Museum. Thank you for making each event a success and a true celebration of research in anesthesiology and medicine.

Friends of FAER Reception

Guests enjoyed another jovial Friends of FAER reception celebrating FAER’s accomplishments and its many donors and supporters. The evening included a spirited recognition of Margaret Wood, MBChB, FRCA, as the first Friend of FAER Honoree for her enormous impact on the field of anesthesiology and its investigators, particularly during her tenure as Chair of Columbia University’s Department of Anesthesiology.
FAER/eSAS: A Day for New Researchers

Members from the Early-Stage Anesthesia Scholars (eSAS) and the FAER Academy of Research Mentors in Anesthesiology (ARMA) facilitated engaging educational sessions in the morning. The sessions included panels on ways to incorporate research into practice, skills for research and career development, and small networking groups. In the afternoon, the event shifted to moderated poster discussions for over 100 medical students and residents taking part in the MSARF, T35, and RSP programs.

Swimming with Sharks

The Swimming with Sharks live competition sharpened its teeth in 2022. A total of 18 early and mid-stage companies applied to compete. After the initial round of evaluations by judges, three early stage and three mid-stage companies were selected to pitch their companies at ANESTHESIOLOGY to the investor “Sharks.” Each company also had the opportunity to work with a Shark to help prepare their pitch.

Winner – Early-Stage: Jinlei Li, MD, PhD, FASA
Finalists – Early-Stage: Revonna J. Smith, DO, MBA, and Andrew Cothrel; Peter D. Yim, MD, and Amy Wu, BS

Winner – Mid-Stage: Diane L. Miller, MD
Finalists – Mid-Stage: Richard Hughen, MBA; Yassine Moussali, MD
2022 Grant Recipients and Program Participants by State

**MSARF Participants**

Alabama 1
Arizona 1
Arkansas 1
California 3
Colorado 4
Connecticut 1
Florida 5
Georgia 1
Hawaii 1
Illinois 5
Indiana 1
Iowa 1
Maine 1
Massachusetts 2
Michigan 3
Minnesota 1
Missouri 3
Nebraska 1
New Jersey 2
New York 7
North Dakota 1
Ohio 2
Pennsylvania 4
Rhode Island 2
Texas 2
Virginia 2
Washington 1
Washington DC 1
Wisconsin 1

**RSP Participants**

Alabama 1
California 5
Colorado 1
Connecticut 1
Florida 1
Georgia 1
Illinois 6
Kansas 1
Maryland 2
Massachusetts 5
Michigan 2
Minnesota 2
Missouri 1
North Carolina 3
Nebraska 1
New Hampshire 1
New York 7
Ohio 3
Oklahoma 1
Oregon 1
Pennsylvania 2
Tennessee 1
Utah 1
Virginia 1
Washington 1
Washington DC 1
Wisconsin 1

**Grant Recipients**

California 4
Illinois 1
Massachusetts 2
Missouri 1
New York 1
Oregon 1
Pennsylvania 3
Texas 1
Wisconsin 1
Academy of Research Mentors in Anesthesiology
Mentoring Excellence in Research Awardee

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 Mervyn Maze, MB, ChB, FRCP, FRCA, FMedSci, as the 2022 Mentoring Excellence in Research Award recipient. Dr. Maze has remained heavily invested in the future of science in anesthesiology, having served on the FAER Academy of Research Mentors in Anesthesiology since 2010.

“I could not provide a more positive recommendation than the one that I will give for Dr. Maze. He is a natural, pleasant and personable leader and teacher. Each interaction has made me a better scientist and clinician. He is constructive, and always available to those who are lucky enough to work with him. His work ethic is highly contagious to those of us fortunate enough to study with him. His significant research and clinical anesthesia knowledge inspired me to work in the research and clinical field. In short, he is an emblem for what it means to be an excellent researcher and mentor.”

–Susana Vacas, MD, PhD
Massachusetts General Hospital

“Academic anesthesiology doesn’t have ‘rock stars,’ but as far as mentoring icons go, I’ve tried to model my own career after Mervyn’s. I’ve tried to pay forward the enormous debt I owe Mervyn by emulating his kindness, generosity with his time, and enthusiastic support for our field’s future clinician scientists.”

–Max B. Kelz, MD, PhD
University of Pennsylvania

“Perhaps the most amazing attribute is the way his research remains relevant after 40 years, where Mervyn has constantly been at the forefront of scientific advancement. His greatest legacies, however, are the mentees and collaborative networks he has nurtured. With this support, he has helped sustain academic anesthesia and laid foundations for future growth in our specialty.”

–Robert D. Sanders, BSc, MBBS, PhD, DABA, FRCA
University of Sydney
The Central Importance of Patient Centeredness in Perioperative Research

Choosing a drug mechanism/technique which will render one unconscious is an extremely consequential decision. Currently this decision is taken completely out of the hands of patients and all agency for this choice is assumed by anesthesiologists or other anesthesia clinicians. Where there is any shared decision making, it is possible that those least likely to be given the opportunity to express their preference regarding this choice are those who do not have a voice in society.

ADVANCE 2022 Poster Presentations

FAER proudly sponsored poster presentations and awards at the ADVANCE 2022 meeting, held in Dallas. FAER provided first, second, and third place prizes for posters related to health services and advancing the practice of anesthesia. The posters were evaluated based on two criteria: recognizing outstanding evidence-based research in the field, and supporting scientific discovery and knowledge application in all aspects of the practice, with the unifying goal of medical advancement. Join FAER in congratulating the winners and thanking poster judges Drs. Richard Dutton, Grant Lynde, Lori Marshall, Mohammed Minhaj, William David Sumrall, Mahesh Vaidyanathan, and Edward Yaghmour.

First Place
Dhruv Choudhry, MD; Ochsner Health
Preventing Burnout and Improving Physician Engagement Through the Use of an AI Driven Scheduling System

Second Place
Andrew Mariotti, MHSA; University of Colorado School of Medicine
Operational Outcomes of Propofol Sedation versus Fentanyl Versed and Diphenhydramine Sedation for Endoscopies and Colonoscopies at an Academic Medical Center

Third Place
Evan Lebovitz, MD; University of Pittsburgh
Variable Attending Anesthesiology Assignment System Allowed for Optimization of Ratios to Match Staffing Demands
Step Up for FAER

Drs. Ximena and Daniel Sessler, inspired by the importance of FAER’s mission, helped start the Step Up for FAER campaign in 2021. Each year, they issue a $100,000 matching gift that, by stepping up themselves, inspires others to step up their support for FAER.

Each contribution to this multi-year campaign is matched 1:1 up to $100,000 per year with the end goal of establishing an endowed Mentored Research Training Grant (MRTG) focused on clinical investigators.

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U.S. Anesthesia Partners
Academic Giving Competition

FAER held its inaugural Academic Giving Competition in October 2022. Teams at 19 anesthesia departments around the country raised a whopping $165,314 in fierce but friendly competition with one another. Two winners were crowned, one for most funds raised and one for greatest number of donors. The winners received the treasured bragging rights, a Grand Rounds provided by a FAER leader, and a commemorative trophy to aid in the bragging. Thank you to the winners and all participating teams!

Winner – Most Funds Raised
Medical College of Wisconsin
Winner – Greatest Number of Donors
Columbia University
Honorable Mentions
University of California, San Francisco
University of Colorado School of Medicine

Participating Teams

Brigham and Women’s Hospital
Cleveland Clinic
Columbia University
Emory University
Johns Hopkins Medicine
Medical College of Wisconsin
UCLA David Geffen School of Medicine
University of Alabama at Birmingham
University of California, San Francisco
University of Colorado School of Medicine
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Yale School of Medicine
2022 Contributors

Thank you for your generous support for FAER in 2022. By supporting anesthesiology research and scientific discovery, you make life-enhancing advances in medicine and improvements in patient care possible. You are enabling talented anesthesiologists who are pursuing new knowledge to transform our specialty and health systems, and most importantly, to improve lives.

This report recognizes donations made between January 1, 2022, and December 31, 2022. Great effort was made to include all contributors in this report and to ensure the accuracy of names and credentials. If we have erred, please accept our apologies and contact us at FAER@faer.org so that we may make corrections for future listings.

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Note: Individual contributors with a (+) have supported FAER for 10 or more consecutive years.

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Charles W. Emala Sr., MD, MS, and Mary Emala
Kathleen Connolly Empsuch
Alex S. Evers, MD, and Carol Evers
Jane C.K. Fitch, MD, FASA
Lee A. Fleisher, MD
James D. Grant, MD, MBA, FASA
Andrew A. Greenberg, MD
Alan W. Grogono, MD, FRCA, dec.
Dhanesh K. Gupta, MD, MBA
Alexander A. Hannenberg, MD, and Carol Hannenberg, MD
Judith Hellman, MD
Thomas Henthorn, MD
Bradley J. Hindman, MD
Francis M. James III, MD, FACA
Joanne Jene, MD, FASA
Roger A. Johns, MD, MHS, PhD
Joshua Johnston, MD, and Elizabeth Johnston
Patricia A. Kapur, MD
Sean K. Kennedy, MD
Jeffrey R. Kirsch, MD, FASA
Catherine M. Kuhn, MD
Charles D. Kurth, MD
Mark J. Lema, MD, PhD, FASA
Mirjana Lovrincevic, MD, and Igor Lovrincevic, MD
Philip D. Lumb, MBBS, FACA, and Christine Lumb
George A. Mashour, MD, PhD
Linda J. Mason, MD, FASA
James G. Mathis, MD
Jane Matjasko, MD, FACA, dec.
Shirley Graves Modell, MD, FACA, DSc (Hon.), and Jerome H. Modell, MD, FACA, dec.
Philip G. Morgan, MD, and Margaret M. Sedensky, MD
John Neeld Jr., MD, FACA, and Gail Neeld
Dolores B. Njoku, MD
Mark C. Norris, MD
Rita L. Orkin
Pamela P. Palmer, MD, PhD
Ronald G. Pearl, MD, PhD, FASA
Mary Dale Peterson, MD, MSHCA, FACHE, FASA
Y. S. Prakash, MD, PhD
Kai Rehder, MD
Michael F. Roizen, MD
Duane K. Rorie, MD, PhD, dec.
Myer H. Rosenthal, MD
Armin Schubert, MD, MBA
Eugene P. Sinclair, MD, FACA, and Mrs. Sinclair (continued)
Lifetime Generosity (continued)

Donald R. Stanski, MD, FRCPC
M. Christine Stock, MD, and
Stuart R. Stock, PhD
Eckehard A. Stuth, MD, and
Janelle Becker-Stuth

Joseph W. Szokol, MD, FASA
Stephen J. Thomas, MD, FACA,
FANZCA, FRCA, and Ellen Thomas
Charles J. Vacanti, MD, FACA
Joyce A. Wahr, MD, and Dennis Wahr, MD

Jeanine P. Wiener-Kronish, MD
John P. Williams, MD, BS
Karen D. Stanley-Williams, MD
Glenn E. Woodworth, MD

Legacy Society

The FAER Legacy Society honors those who make a gift to the Foundation through their estates, wills, or trusts. Legacy Society members help safeguard the future of anesthesiology by ensuring that discovery, innovation, and education will continue on behalf of their profession for generations to come.

Ann Bardeen-Henschel, MD, dec. (hon.)
Steven J. Barker, PhD, MD, FACA
Burdett S. Dunbar, MD, dec.
Steven B. Edelstein, MD, FASA
James C. Eisenach, MD
Simon Gelman, MD, PhD, FANZCA
Alexander A. Hannenberg, MD, and
Carol Hannenberg, MD
Joy L. Hawkins, MD, FASA, and
Randall L. Clark, MD, FASA

Carl C. Hug Jr., MD, PhD, FACA,
FANZCA, FRCA, dec. (hon.)
Alan J. Mandel, MD
Gertie Marx, MD, FACA, dec. (hon.)
Linda J. Mason, MD, FASA
Kathryn E. McGoldrick, MD
Shirley Graves Modell, MD, FACA, DSc,
and Jerome H. Modell, MD, FACA,
dec.

G. Alec Rooke, MD, PhD
Bruce M. Shepard, MD, dec. (hon.)
Robert W. Vaughan, MD, FACA, and
M. Sue Vaughan, PhD, RN
Yvonne Wagner, MD, FANZCA
Warren M. Zapol, MD, dec., and
Nikki J. Zapol, JD

Bequest from Carl C. Hug Jr., MD, PhD, FACA, FANZCA, FRCA

In 2022, FAER received a generous gift from the estate of Dr. Carl C. Hug. A renowned anesthesiologist, Dr. Hug served a long tenure as a professor of anesthesiology at the Emory University School of Medicine. He received ASA’s Distinguished Service Award in 2006 and served on the Board of Directors of The American Board of Anesthesiology from 1984-1993. Dr. Hug also served on FAER’s Board of Directors, including a term as President from 1998-2001, where he helped establish the FAER-Helrich Research Lecture.

“I’m incredibly thankful for the enormous support that FAER and the Anesthesia Patient Safety Foundation (APSF) have provided through the APSF-FAER Mentored Research Training Grant. As a former FAER Medical Student Anesthesia Research Fellowship participant, FAER has played a pivotal role in my career development as a pediatric anesthesiologist and perioperative patient safety scientist.”

Jonathan M. Tan, MD, MPH, MBI, FASA
2021 APSF-FAER MRTG

“Becoming a FAER grantee has been a major catalyst for my career. The grant has facilitated my pursuit of advanced training, which has further catapulted me into other areas of research and scholarly productivity.”

Allison J. Lee, MD, MS, MBBS
2017 FAER REG
Tribute Gifts – In Honor

Melanie J. Alo, MD, in honor of Stephen A. Stayer, MD
Valerie E. Armstead, MD, DABA, in honor of Cassandra Armstead-Williams, MD
Karsten Bartels, MD, PhD, MBA, in honor of Daniel Clauw, MD
William A. Beck, MD, in honor of E.F. Bud Klein, MD
Richard A. Berkowitz, MD, in honor of Guy L. Weinberg, MD
Rose Campise-Luther, MD, in honor of Astrid G. Stucke, MD
Christina D. Diaz, MD, FAAP, FASA, in honor of Astrid G. Stucke, MD
Dawn Dillman, MD, in honor of Judith B. Dillman, MD
Christin L. Engelhardt, in honor of Eugene R. Viscusi, MD
Bengt G. Grua, MD, in honor of Priya Suntharalingam, MD
Francis M. James III, MD, FACA, in honor of Douglas G. Ririe, MD, MHA, PhD
Muhammad Salman Tahir Janjua, MD, in honor of Mary E. Arthur, MD, FASA
Scott D. Kelley, MD, in honor of Daniel I. Sessler, MD
Scott Kercheville, MD, FASA, in honor of Crystal C. Wright, MD, FASA
Jerome M. Klafta, MD, in honor of Jeffrey L. Apfelbaum, MD
Markus G. Klass, MD, PhD, in honor of James R. Zaidan, MD, MBA
Ruthi Landau Cahana, MD, in honor of Charles W. Emala Sr., MD, MS
Allison J. Lee, MD, MS, MBBS, in honor of Ruthi Landau, MD
Esther Lee, MD, in honor of UCSF Anesthesia, Class of 2018
Jin Soo Lee, MD, in honor of Catherine L. Chen, MD
Joseph Neal, MD, in honor of James C. Eisenach, MD
Columbia University in honor of Columbia University Faculty
Pamela P. Palmer, MD, PhD, in honor of Ronald D. Miller, MD, FACA, FCAI, FRCA
May C. Pian-Smith, MD, MS, in honor of Warren Zapol, MD, dec., and Nikki Zapol, JD
David M. Polaner, MD, in honor of Thomas F. Hornbein, MD
Kane O. Pryor, MBBS, in honor of Hugh C. Hemmings Jr., MD, PhD
William A. Roberts, MD, PhD, in honor of Denham S. Ward, MD, PhD
John C. Rowlingson, MD, FACA, in honor of American Society of Regional Anesthesia and Pain Medicine
Aimee Southworth, in honor of May C. Pian-Smith, MD, MS
Astrid G. Stucke, MD, in honor of Edward Zuperku , MD
Paloma Toledo, MD, MPH, in honor of Cynthia A. Wong, MD
Lois Wetmore, DVM, MS, in honor of George P. Topulos, MD
Anna Woodbury, MD, in honor of Anne M. McKenzie-Brown, MD
Anna Woodbury, MD, in honor of Paul S. Garcia, MD, PhD
Anna Woodbury, MD, in honor of Yung-Fong Sung, MD, FACA
Raymond A. Zollo, MD, in honor of Denham S. Ward, MD, PhD

Tribute Gifts – In Memory

Anonymous, in memory of Albert P. Shih, MD
Joseph F. Antognini, MD, FASA, in memory of Edmond I. Eger, MD, FACA, FCAI, FRCA
Douglas R. Bacon, MD, MA, FASA, in memory of Alan D. Sessler, MD, FACA, FCAI, FRCA
Victor C. Baum, MD, in memory of Debbie Ward
Ida W. Boutros, in memory of Azmy Boutros, MD, FRCA, FRCPC
Philip F. Boyle, MD, FASA, and Kristine Boyle, in memory of Eugene H. Boyle, MD, FACA
Joseph F. Cotten, MD, in memory of Warren Zapol, MD
Kathleen Connolly Empsuch, in memory of Burdett S. Dunbar, MD, FACA
James H. Fitzpatrick Jr., MD, in memory of Ben F. Rusy, MD
Maribel P. Galiano-Goll, MD, in memory of Eric F. Goll, PharmD
Dr. and Mrs. James Gessner in memory of Alan D. Sessler, MD, FACA, FCAI, FRCA
Shirley Graves Modell, MD, FACA, DSc (Hon.), in memory of Jerome H. Modell, MD, FACA
Alexander A. Hannenberg, MD, and Carol Hannenberg, MD, in memory of Alan D. Sessler, MD, FACA, FCAI, FRCA
Roger A. Johns, MD, MHS, PhD, in memory of Lisa Kolp, MD
Matthew J. Kremke, MBA, in memory of Sally Kremke
Wayne K. Marshall, MD, in memory of Robert F. Bedford, MD, FACA
Eddrice M. McMullan, MD, in memory of Leroy A. Alexander, MD
Keith Miller, DPhil, PhD, in memory of Warren Zapol, MD
Holly Ann Muir, MD, in memory of David S. Warner, MD
Rita L. Orkin, in memory of Louis R. Orkin, MD, FACA
William D. Owens, MD, FACA, FASA and Patricia G. Owens, in memory of Carl C. Hug Jr., MD, PhD, FACA, FANZCA, FRCA
William D. Owens, MD, FACA, FASA and Patricia G. Owens, in memory of Ronald McKenzie, DO
Susan K. Palmer, MD, in memory of Cynthia Anderson
Lang-Ha T. Pham, MD, in memory of Warren Zapol, MD
Philip G. Morgan, MD, and Margaret M. Sedensky, MD, in memory of Howard Nash
Roman Sniecinski, MD, in memory of Carl C. Hug Jr., MD, PhD, FACA, FANZCA, FRCA
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Stephen J. Thomas, MD, FACA, FANZCA, FRCA, in memory of Warren Zapol, MD
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Woodrow W. Wendling, MD, PhD, in memory of Concetta “Connie” Harakal, PhD
John Williams, MD, BS, in memory of Joseph C. Gabel, MD
James R. Zaidan, MD, MBA, in memory of Warren Zapol, MD
Society for Anesthesia Education and Research

Open to academic anesthesiology departments with an interest in supporting FAER, the Society for Anesthesia Education and Research (SAER) supports FAER’s mission through annual membership dues. Below is a list of SAER members in 2022.

NOTE: Institutions listed below with a (*) have been members of SAER for 10 or more consecutive years.

Albany Medical Center
Beth Israel Deaconess Medical Center (HIMFP)
Boston Children’s Hospital
Boston Medical Center
Brigham and Women’s Hospital
Case Western University / Cleveland Medical Center
Cleveland Clinic Anesthesiology Institute*
Columbia University
Dartmouth-Hitchcock Medical Center
David Geffen School of Medicine at UCLA*
Duke University School of Medicine*
Emory University
Georgetown University Hospital*
Henry Ford Health System*
Icahn School of Medicine at Mount Sinai
Indiana University School of Medicine
Johns Hopkins Medicine*
Kansas University Medical Center*
Loma Linda University*
Massachusetts General Hospital
Mayo Clinic Rochester*
Medical College of Wisconsin*
Memorial Sloan Kettering Cancer Center
New York University Medical Center*
Northwestern University Feinberg School of Medicine*
Stanford University Medical Center*
State University of New York - Buffalo
Stony Brook University Renaissance School of Medicine
The Ohio State University
Tufts Medical Center
University of Alabama at Birmingham
University of California, Davis
University of California, Irvine
University of California, San Francisco
University of Chicago
University of Colorado
University of Illinois at Chicago*
University of Iowa Carver College of Medicine
University of Maryland Medical Center
University of Massachusetts Medical School*
University of Miami School of Medicine
University of Michigan Medical School
University of Minnesota Medical School
University of Nebraska Medical Center*
University of New Mexico School of Medicine
University of North Carolina School of Medicine
University of Pennsylvania Medical Center
University of Pittsburgh Medical Center
University of Rochester Medical Center*
University of Tennessee Graduate School of Medicine*
University of Utah School of Medicine
University of Vermont Medical Center*
University of Virginia Health System*
University of Washington
University of Wisconsin School of Medicine and Public Health
Vanderbilt University School of Medicine*
Wake Forest School of Medicine
Washington University School of Medicine*
Weill Cornell Medicine

Tributes

“Cindy has been the mentor who has never stopped giving. She encouraged my passion for academic anesthesiology as a trainee. She helped start my research career and to this day still advises me. She is an invaluable friend and mentor!”

Paloma Toledo, MD, MPH, in honor of Cynthia A. Wong, MD

“Paul has shaped my research career. He guided me through a clinical research scientist track, encouraged me to apply for a FAER RFG, laid out a path for me to follow in federal grant applications, and continues to help my career development to this day.”

Anna Woodbury, MD, in honor of Paul S. Garcia, MD, PhD

“Starting out my anesthesia residency under the tutelage of Dr. Ron Miller was an honor that I continue to reflect on over the past 30 years. He is a true giant in our specialty.”

Pamela P. Palmer, MD, PhD, in honor of Ronald D. Miller, MD, FACA, FCAI, FRCA

“As chair, Hugh Hemmings has steadfastly supported the development of a clinician-scientist pipeline that has tremendously benefitted from FAER’s grant programs. Would not be possible without chair support.”

Kane O. Pryor, MBBS, in honor of Hugh C. Hemmings Jr., MD, PhD, FRCA
State Component Society Donors

$5,000+
Minnesota Society of Anesthesiologists
Tennessee Society of Anesthesiologists
Texas Society of Anesthesiologists

$2,000 - 4,999
Iowa Society of Anesthesiologists
Michigan Society of Anesthesiologists
North Carolina Society of Anesthesiologists
Wisconsin Society of Anesthesiologists

$1,000 - 1,999
Arizona Society of Anesthesiologists
Arkansas Society of Anesthesiologists
Connecticut State Society of Anesthesiologists
Illinois Society of Anesthesiologists
Indiana Society of Anesthesiologists
Kentucky Society of Anesthesiologists
Massachusetts Society of Anesthesiologists
Nebraska Society of Anesthesiologists
Ohio Society of Anesthesiologists
Pennsylvania Society of Anesthesiologists
Utah Society of Anesthesiologists

Up to $999
Colorado Society of Anesthesiologists
Maine Society of Anesthesiologists
Mississippi Society of Anesthesiologists
Nevada State Society of Anesthesiologists
New Jersey State Society of Anesthesiologists
New York State Society of Anesthesiologists
Rhode Island Society of Anesthesiologists
South Carolina Society of Anesthesiologists
Virginia Society of Anesthesiologists
West Virginia State Society of Anesthesiologists

Corporate Donors

Subspecialty Society Donors

Private Practice Group Donors

Foundation Donors

AmazonSmile Foundation
Gertie F. Marx Private Foundation
Ronald L. Katz Family Foundation

Olympic Anesthesia Services
The Academy of Research Mentors in Anesthesiology (ARMA) is a resource for the development of mentors and role models in academic anesthesia. ARMA members include academic anesthesiologists and others who have demonstrated outstanding contributions to the development of physician-investigators in anesthesia.

ARMA welcomed eight new members in 2022

(From left) Brian Bateman, MD, MSc, Stanford University; Beth Darnall, PhD, Stanford University; Christopher Hughes, MD, MSc, Vanderbilt University Medical Center; Nathalia Jimenez, MD, MPH, University of Washington

(From left) Sachin Kheterpal, MD, MBA, University of Michigan; Richard Levy, MD, Columbia University; Philip Morgan, MD, University of Washington Seattle Children’s Hospital; Christine Sang, MD, MPH, FASA, Brigham and Women’s Hospital

Max B. Kelz, MD, PhD
Judy R. Kersten, MD
Evan D. Kharasch, MD, PhD
Sachin Kheterpal, MD, MBA
Jeffrey R. Kirsch, MD, FASA
Paul R. Knight III, MD, PhD
Richard J. Levy, MD
Sean C. Mackey, MD, PhD
Jianren Mao, MD
James D. Marks, MD, PhD
Jeevendr Barb, MD, FAC, FRCA
George A. Mashour, MD, PhD
Joseph Mathew, MD, MBA, MHSc
Mervyn Maze, MB, ChB, FRCP, FRCA, FMedSci
Ronald D. Miller, MD, FAC, FCAI, FRCA
Philip G. Morgan, MD
Peter J. Pronovost, MD, PhD, FCCM
Donal P. Dracup, MD
Douglas E. Raines, MD
Srinivasa N. Raja, MD
Davinder Ramsingh, MD
Matthew L. Riess, MD, PhD, FASA
Warren S. Sandberg, MD, PhD
Christine N. Sang, MD, MPH, FASA
Margaret M. Sedensky, MD
Daniel L. Sessler, MD
Steven Shafer, MD, FASA
Sam R. Sharar, MD
Andrew D. Shaw, MB, FRCA, FRCP
Edward R. Sherwood, MD, PhD
Brett A. Simon, MD, PhD
David F. Stowe, MD, PhD
Eckehard A. Stuth, MD
Michael M. Todd, MD
Miriam M. Treggiari, MD, PhD, MPH
Monica S. Vavilala, MD
David Wartier, MD, PhD
David O. Warner, MD
Zhongcong Xie, MD, PhD, FASA
Yan Xu, PhD
Jay Yang, MD, PhD
Myron Yaster, MD
Zhiyi Zuo, MD, PhD
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Amanda A. Fox, MD

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Peter A. Goldstein, MD

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Yumiko Ishizawa, MD

Max B. Kelz, MD, PhD

Evan D. Kharasch, MD, PhD

Hiroyuki Kinoshita, MD, PhD

Jacqueline M. Leung, MD, MPH

Sean C. Mackey, MD, PhD

Philip G. Morgan, MD

Peter Nagele, MD, MSc

Kane O. Pryor, MBBS

Matthias L. Riess, MD, PhD, FASA

Senthil Sadhasivam, MD, MPH, MBA, FASA

Jochen Steppan, MD, FASA

Astrid G. Stucke, MD

Peter Szmuk, MD

Anna Woodbury, MD

Zheng Xie, MD, PhD, FASA

Zhongcong Xie, MD, PhD, FASA

ASA Committee on Research

The ASA Committee on Research serves as the study section that reviews applications for the FAER Mentored Research Training Grant, Research Fellowship Grant, and Research in Education Grant for scientific merit. Committee membership is appointed by the ASA. FAER thanks the below committee members for their service and support in 2022.

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Juan P. Cata, MD
Vidy Chidambaran, MB, BS, FASA
Gregory Crosby, MD, MS
Tobias Eckle, MD, PhD
Amanda A. Fox, MD
Gyorgy Frendl, MD, PhD
Laurent G. Glance, MD
Peter A. Goldstein, MD
Susan Googie, MD, FRCPC
Eric R. Gross, MD, PhD
Jiapeng Huang, MD, PhD, FASE, FASA
Yumiko Ishizawa, MD
Max B. Kelz, MD, PhD
Evan D. Kharasch, MD, PhD
Hiroyuki Kinoshita, MD, PhD
Jacqueline M. Leung, MD, MPH
Sean C. Mackey, MD, PhD
Philip G. Morgan, MD
Peter Nagele, MD, MSc
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Matthias L. Riess, MD, PhD, FASA
Senthil Sadhasivam, MD, MPH, MBA, FASA
Jochen Steppan, MD, FASA
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E. Railey White, MD, PhD

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Beverley A. Orser, MD, PhD, FRCPC
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Roger A. Johns, MD, MHS, PhD
Cynthia A. Lien, MD, FASA
Vivian Tawfik, MD, PhD

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**National Academy of Medicine Fellowship**

At its Fall 2022 Meeting, the FAER Board of Directors voted unanimously to establish a $1 million endowed fellowship at the National Academy of Medicine (NAM). Through participation in committee, workshop, and roundtable activities of NAM and the National Academy of Sciences (NAS), the fellowship will provide early-career anesthesiology scholars with the opportunity to enhance their knowledge and skills necessary to work across disciplines, expand their network of leaders in health and medicine, and prepare them to shape the future of healthcare throughout their careers.

Starting in 2024, each FAER NAM Fellowship will be awarded for a two-year period. Candidates must have completed their post-graduate work two to ten years prior and have a demonstrated focus on research, policy, and scholarship in the specialty.
Financials

Fiscal Year 2022 Highlights

<table>
<thead>
<tr>
<th>REVENUE</th>
<th>Amount</th>
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<tr>
<td>American Society of Anesthesiologists</td>
<td>$1,600,000</td>
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<tr>
<td>Corporations &amp; Practice Groups</td>
<td>$110,554</td>
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<tr>
<td>Component &amp; Other Societies</td>
<td>$116,030</td>
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<td>Individuals</td>
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<td>Foundations</td>
<td>$48,371</td>
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<td>Schools</td>
<td>$442,800</td>
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<td>Other Income</td>
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<td><strong>Total</strong></td>
<td><strong>$3,073,568</strong></td>
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<th>EXPENSES</th>
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<td>Program Services</td>
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<td>Fundraising</td>
<td>$258,623</td>
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<td>Management &amp; General</td>
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<td><strong>Total</strong></td>
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Statement of Financial Position (As of December 31, 2022)

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<th>ASSETS</th>
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<td>Cash</td>
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<td>Receivables and Other Assets</td>
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<td>Investments</td>
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<td>Beneficial Interest in Trust</td>
<td>$677,283</td>
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<td>Other</td>
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<td><strong>Total Assets</strong></td>
<td><strong>$29,148,999</strong></td>
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<tr>
<th>LIABILITIES AND NET ASSETS</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liabilities</td>
<td>$3,150,772</td>
</tr>
<tr>
<td>Unrestricted Net Assets</td>
<td>$23,167,160</td>
</tr>
<tr>
<td>Restricted Net Assets</td>
<td>$2,831,067</td>
</tr>
<tr>
<td><strong>Total Liabilities and Net Assets</strong></td>
<td><strong>$29,148,999</strong></td>
</tr>
</tbody>
</table>

*The audited financial statements above are pending full approval by FAER’s Board of Directors in October 2023.*
FAER in the ASA Monitor

In 2022, FAER worked with its talented grantees, leaders, and supporters to author articles for the ASA’s monthly newsletter, The Monitor. The broad intent of these articles was to inform about ongoing FAER activities, highlight and promote FAER-funded researchers, and share information pertinent to the world of anesthesiology research. Join FAER in thanking its 2022 Monitor Authors for their time and support. At the time of this report’s publication, the articles listed below are available for free at https://pubs.asahq.org/monitor.

February
Rebecca A. Aslakson, MD, PhD, FAAHPM, FCCM; Associate Professor of Anesthesiology and Medicine-Palliative Care, Stanford University
FAER Funds Palliative Care and Ethics-Related Research

April
Cynthia A. Lien, MD, FASA
John P. Kampine Professor and Chair, Department of Anesthesiology, Medical College of Wisconsin
Adapting to Delivering Patient Care in the Pandemic

June
Richard P. Dutton, MD, MBA, FASA
Chief Quality Officer, US Anesthesia Partners; Adjunct Professor, Texas A&M University College of Medicine
Rapid Growth in NORA Will Continue: Science Must Follow!

August
Matthew J. Kremke, MBA
FAER Executive Director
FAER: Guiding Your Research Journey

September
George A. Mashour, MD, PhD
Robert B. Sweet Professor and Chair, Department of Anesthesiology, University of Michigan Medical School
22nd Annual FAER-Helrich Research Lecture

October
Matthew J. Kremke, MBA
Gunisha Kaur, MD, MA
Jonathan M. Tan, MD, MPH, MBI, FASA
Allison J. Lee, MD, MS, MBBS
Mark D. Neuman, MD, MSc
Advocating for Research and Using Research for Advocacy

December
Thomas J. Ebert, MD, PhD
Adjunct Professor of Anesthesiology, Medical College of Wisconsin; Clement J. Zablocki VA Medical Center
FAER: The Aurora Borealis of Our Specialty
Candid Seal of Transparency

In 2022, FAER became a proud recipient of the Candid Platinum Seal of Transparency. Candid is the world’s largest source of information on nonprofit organizations. Only 15% of nonprofits with a Candid Seal had achieved the Platinum Transparency level as of 2021. The Platinum Seal represents FAER’s commitment to transparency surrounding its activities, ensuring its supporters can be confident that their donations are effectively applied to its mission. View FAER’s Candid profile at GuideStar.org.