2021 ACCOMPLISHMENTS

Awarded $3,400,000 in Funding to 17 Research Grant Recipients

Matched 50 Medical Student Anesthesia Research Fellows to 33 Host Sites

Sponsored 42 Resident Scholars to Attend and Present at ANESTHESIOLOGY® 2021

FAER is established with support from the ASA, anesthesia specialty and component societies, corporations, and individuals.

1986
It is my pleasure to celebrate the accomplishments FAER achieved in 2021 during its 35th year of developing the next generation of physician-investigators. In October 2021, the FAER Board approved an increase of nearly $1 million to its yearly budget for research grant funding. This increase will build on the more than $50 million FAER has awarded for research grants and programs as of 2021 – an achievement that would not have been possible without the decades of unwavering loyalty, generosity, and commitment FAER’s donors have shown for our work. This increase came alongside a new Strategic Plan that will ensure FAER maintains the critical support we offer to anesthesiology’s investigators, while also broadening the scope of those we’re able to reach and strengthening the support we provide.

Last year’s spring grant cycle saw us once again collaborate with the Anesthesia Patient Safety Foundation (APSF) on the APSF-FAER Mentored Research Training Grant (MRTG), to the great satisfaction of our respective foundations. On the topic of collaboration, I’d also like to highlight the Association of University Anesthesiologists (AUA) for reaching $1 million in total contributions to FAER, a milestone we are profoundly grateful for. Such relationships are indicative of the many wonderful ties FAER has with our supporters and fellow organizations within anesthesiology.

The importance of research to anesthesiology cannot be overstated. Every day, the impact physician-investigators have on the specialty is felt by patients and anesthesiologists alike. As one of FAER’s earliest grantees, it’s been truly amazing to see and be a part of the Foundation’s growth in this theatre over the years. I’d like to thank you and all of FAER’s donors for lending your support to those who will shape the future of research in our specialty. I hope you enjoy reading more about the accomplishments listed in this report that your generosity made possible. Finally, thank you to FAER’s founding supporter, the American Society of Anesthesiologists (ASA), for continuing to invest in research through its yearly contribution to FAER.

Warm Regards,
Roger A. Johns, MD, MHS, PhD
Chair, FAER Board of Directors

It is my honor, and the honor of the ASA, to contribute to FAER’s work to ensure the tradition of scientific excellence in anesthesiology is maintained. Research is the lifeblood of our specialty’s continued growth. Without research and the innovation it spurs, the landscape of anesthesiology and of medicine as a whole would be unrecognizable. FAER’s work over the past 35 years to support the investigators who will help lead anesthesiology is truly incredible and I join them in celebrating reaching $50 million in funds awarded as of 2021. Just as the Foundation plays a vital role in cultivating anesthesiology’s researchers, the generosity of FAER’s donors is essential to this process. On behalf of the ASA, I would like to thank all those who donated to FAER in 2021 for your part in building the future of our specialty.

Best Wishes,
Randall M. Clark, MD, FASA
President, American Society of Anesthesiologists (ASA)
2021 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 transforming the field of anesthesiology by funding the research of talented investigators. Grants include: Mentored Research Training Grants (MRTG) which help anesthesiologists develop the skills, preliminary data for subsequent grant applications, and research publications needed to become independent investigators; 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 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 successes, continuing the evolution of medicine through their work. FAER awarded 17 grants in 2021. We celebrate our 2021 grantees and their projects below.

**Mentored Research Training Grant**

**Jacob M. Basak, MD, PhD**
**Fall**

*Evaluation of Soluble Amyloid Beta as a Cause of Post-Stroke Cognitive Impairment and Dementia*

University of Colorado Denver, CO

Primary Mentor: Paco Herson, PhD  
Secondary Mentor: Vesna Jevtovic-Todorovic, MD, PhD, MBA, FASA  
Tertiary Mentor: Nidia Quillinan, PhD

**Andrew M. Bishara, MD**
**Fall**

*Real-Time Prediction of Adverse Outcomes after Anesthesia*

University of California, San Francisco, CA

Primary Mentor: Atul Butte, MD, PhD  
Secondary Mentor: Romain Pirracchio, MD, PhD

**Joseph Cichon, MD, PhD**
**Spring**

*The Role of the Ketamine-Induced Dissociated State in the Treatment of Neuropsychiatric Disorders*

University of Pennsylvania, PA

Primary Mentor: Max B. Kelz, MD, PhD  
Secondary Mentor: Alex Proekt, MD, PhD  
Tertiary Mentor: Diego Contreras, MD, PhD

**Douglas A. Colquhoun, MB ChB, MSc, MPH**
**Spring**

*Data Driven Approaches to Improving Risk Prediction of Pulmonary Complications After Major Inpatient Surgery*

University of Michigan, MI

Primary Mentor: Sachin Kheterpal, MD, MBA  
Secondary Mentor: Karandeep Singh, MD, MS  
Tertiary Mentor: Jenna Wiens, PhD

**Matthew A. Fischer, MD, MS**
**Spring**

*Methylation Quantitative Trait Loci Mapping and Methylome Wide Association Study of Post-Operative Atrial Fibrillation after Cardiac Surgery*

University of California, Los Angeles, CA

Primary Mentor: Thomas M. Vondriska, PhD

**Marie-Louise Meng, MD**
**Fall**

*Cardiovascular Risk Prediction for Improved Maternal Health*

Duke University School of Medicine, NC

Primary Mentor: Svati Shah, MD, MHS  
Secondary Mentor: Ashraf Habib, MD
**Mentored Research Training Grant**

**Louis A. Saddic, MD, PhD**  
*Spring*  
The Mechanistic Exploration of Estrogen Driven Attenuation of Thoracic Aortic Aneurysms Using Proteomics  
University of California, Los Angeles, CA  
Primary Mentor: Sarah Parker, PhD  
Secondary Mentor: Jennifer Van Eyk, PhD  
Tertiary Mentor: Mansoureh Eghbali, PhD

**Elizabeth R. Vogel, MD, PhD**  
*Spring*  
CPAP, Piezo Channels, and Neonatal Airway Disease  
Mayo Clinic, MN  
Primary Mentor: Christina M. Pabelick, MD

**Emmett E. Whitaker, MD**  
*Fall*  
Sevoflurane Induced Cerebrovascular Dysfunction in Infant Offspring from Preeclamptic Pregnancies  
University of Vermont Larner College of Medicine, VT  
Primary Mentor: Marilyn J. Cipolla, PhD  
Secondary Mentor: Mitchell H. Tsai, MD, MMM, FASA, FAACD

**E. Railey White, MD, PhD**  
*Spring*  
The Molecular Mechanism of Propofol Analogues on the Depression of Myocardial Contractility  
University of Pennsylvania, PA  
Primary Mentor: Roderic G. Eckenhoff, MD  
Secondary Mentor: Sharlene M. Day, MD  
Tertiary Mentor: Marni J. Falk, MD

**Robert S. White, MD, MS**  
*Fall*  
Health Disparities in Obstetrical Care and Delivery Outcomes Before and After Implementation of an Enhanced Recovery After Surgery Protocol  
Weill Medical College of Cornell University, NY  
Primary Mentor: Kane O. Pryor, MD  
Secondary Mentor: Suzanne Bakken, PhD, RN, FAAN, FACMI, FIAHSI

**Lauren K. Dunn, MD, PhD**  
*Spring*  
Bundle of Love: The Effect of Self-CARE (Compassion, Appreciation, Rest and Exercise) on Anesthesiology Resident Wellness  
University of Virginia, VA  
Primary Mentor: Edward C. Nemergut, MD

**Ahmed F. Zaky, MD, MSc, MPH**  
*Spring*  
The Cardiac Implantable Electronic Device Application. A Novel Modality for Educating Cardiovascular Anesthesia Trainees  
University of Alabama at Birmingham, AL

**GEMSSTAR**

**Michael Devinney, MD, PhD**  
*Fall*  
The Association of Blood-Brain Barrier Breakdown with Sleep Apnea and Postoperative Delirium  
Duke University School of Medicine, NC  
Primary Mentor: Joseph Mathew MD, MHS, MBA

**Richard Boyer, MD, PhD**  
*Fall*  
Evaluation of Wearables for Preoperative Cardiorespiratory Fitness Screening and Risk Stratification in Geriatric Surgery  
Weill Medical College of Cornell University, NY  
Primary Mentor: Kane O. Pryor, MD

**Lei Gao, MBBS**  
*Spring*  
Circadian Multiscale Activity Regulation and the Risk for Delirium in Elderly Hospitalized Patients  
Massachusetts General Hospital, MA  
Primary Mentor: Kun Hu, PhD

**APSF-FAER Mentored Research Training Grant**

**Jonathan M. Tan, MD, MPH, MBI, CMQ**  
*Spring*  
The Impact of Air Pollution and Neighborhood-Level Risk Factors on Pediatric Perioperative Respiratory Adverse Events  
Children’s Hospital Los Angeles, CA  
Primary Mentor: Randall C. Wetzel, MBBS, MRCP, LRCS, MSB, FAAP  
Secondary Mentor: John P. Wilson, PhD, MSc
From FAER to Federally Funded

FAER congratulates our former grantees who received National Institutes of Health (NIH) K or R awards in 2021. 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 that FAER looks for and strives to foster in our grantees. We look forward to seeing the important work these individuals conduct through the NIH’s funding.

NIH K07 AWARD
Patrick J. Tighe, MD, MS
Perioperative Cognitive Anesthesia Network Extension for Socially Vulnerable Older Adults
2012 MRTG

NIH K08 AWARD
Eellan Sivanesan, MD
Spinal Cord Stimulation for the Attenuation of Chemotherapy-Induced Peripheral Neuropathy and Enhanced Chemotherapeutic Efficacy
2020 MRTG

NIH K23 AWARD
Vafi Salmasi, MD
Integrating Pragmatic Comparative Effectiveness Research into a Tertiary Pain Management Center
2018 MRTG

NIH K24 AWARD
Meredith C.B. Adams, MD, MS, FASA
Wake Forest IMPOWR Dissemination Education and Coordination Center (IDEA-CC)
2015 REG

NIH K08 AWARD
Lisa Qia Rong, MD
Impact of Surgical Revascularization Strategy on Left Ventricular Function, Myocardial Perfusion and Clinical Outcomes
2018 MRTG

NIH R03 AWARD
Michael Devinney, MD, PhD
The Association of Blood-Brain Barrier Breakdown with Sleep Apnea and Postoperative Delirium
2018 RFG

NIH K24 AWARD
Andrew Rich Mckinstry-Wu, MD
Personalized Anesthesia: The Role of the Locus Coeruleus in Individual Anesthetic Responses
2014 MRTG

NIH K24 AWARD
May Hua, MD, MS
Determinants of Palliative Care Effectiveness for Patients with Metastatic Cancer
2013 MRTG

NIH R41 AWARD
Senthilkumar Sadhasivam, MD, MPH, MBA, FASA
Avoiding Adverse Opioid Outcomes with Proactive Precision Care
2017 MRTG

NIH RF1 AWARD
Shiqian Shen, MD
Gut Microbiota Underlies the Heterogeneity of Aging Brain’s Susceptibility to Postoperative Delirium
2016 MRTG

The FAER endowment fund exceeds $1 million.
1991
Medical Student Anesthesia Research Fellowship (MSARF) Program

The 2021 MSARF program received nearly 200 applications and matched 50 students to 33 host institutions. In addition to the in-person fellowship, FAER elected to continue implementing virtual components from the 2020 program into the MSARF program going forward. 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 investigators who helped guide medical students through the program. These individuals were selected as mentors through the MSARF application process in the fall of 2020. All volunteers had a history of mentoring medical students in research and were the ideal mentors for the 2021 participants.

The program culminated with the FAER/eSAS: A Day for New Researchers at ANESTHESIOLOGY® 2021 in San Diego. 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 enjoyed my entire MSARF experience, especially with the conference as a way to conclude. It ended on a high note and I got a lot of advice on how to stay connected to anesthesiology research in medical school and beyond.”

– Kate Hildahl, MSARF student

“I have learned a great deal not only about the field, but also a tremendous amount about clinical research. Having the opportunity to see a research project from initiation to completion with the help of a reliable and passionate mentor has made all the difference for me personally.”

– Alexandra Jankulov, MSARF student
ANESTHESIOLOGY 2021 saw the return to an in-person meeting in beautiful San Diego. The annual meeting also experienced the spirited return of the Friends of FAER Reception, A Day for New Researchers, Swimming with Sharks, and FAER-Helrich Research Lecture. All events were well attended and true celebrations of research in anesthesiology and medicine. Thank you for making each event a success and we look forward to seeing you in New Orleans at ANESTHESIOLOGY 2022.

Friends of FAER Reception

The Friends of FAER reception was a lively celebration of donors for their support for FAER. The evening included recognizing Alison Cole, PhD, for the momentous role she played in the careers of countless physician-investigators in anesthesiology during her long tenure as a program officer at the National Institutes of Health (NIH).
FAER/eSAS: A Day for New Researchers

The FAER/eSAS: A Day for New Researchers event at ANESTHESIOLOGY® 2021 took place in San Diego, California. Members from the Early-Stage Anesthesia Scholars (eSAS) and the FAER Academy of Research Mentors in Anesthesiology (ARMA) facilitated educational sessions. These sessions included panels on careers for anesthesia researchers, keys to success for an academic anesthesiologist, and an elevator pitch session. Like in years past, the event also included moderated poster discussions for over 100 medical students and residents involved with the MSARF, T35, and RSP programs.

Swimming with Sharks

In 2021, FAER was pleased to bring back its Swimming with Sharks live competition. Looking back, this was the most successful Swimming with Sharks to date. A total of 33 early and mid-stage companies applied for the competition with 116 evaluators. After initial evaluations, three early-stage and three mid-stage companies were selected to pitch their companies at ANESTHESIOLOGY 2021 while working with a “Shark” to help them prepare their pitch.

**Winner – Early-Stage**  
Art Wallace, MD, PhD

**Finalists – Early-Stage**  
Howard Gutstein, MD  
Vladimir Nekhendzy, MD

**Winner – Mid-Stage**  
Nirav V. Kamdar, MD, MBA

**Finalists – Mid-Stage**  
James Berry, MD  
Benjamin R. Wang, MD

FAER’s office moves to Rochester, Minnesota, from Baltimore, Maryland, under the new leadership of Dr. Alan D. Sessler.  

1995
2021 Grant Recipients and Program Participants by State

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<th>State</th>
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21st Annual FAER-Helrich Research Lecturer

Daniel I. Sessler, MD
Cudahy Chair, Department of Outcomes Research within the Anesthesiology Institute, Cleveland Clinic

Crisis and Opportunity in Clinical Trials

Postoperative mortality remains anesthesia’s greatest challenge. In the context of solving that and other problems facing our specialty, Dr. Sessler presented novel and trending methods that make trials more efficient.

The FAER-Helrich Research Lecture recognizes outstanding scholarship by a scientist and is part of FAER’s ongoing effort to encourage early career anesthesiologists and trainees to consider careers in research and teaching.

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 is delighted to recognize Dr. Joseph P. Mathew as the 2021 Mentoring Excellence in Research Award recipient.

As a testament to the quality of his mentorship in health science, Dr. Mathew has directly mentored six investigators who have subsequently received NIH funding. Dr. Mathew has remained heavily invested in the future of science in anesthesiology, having served on the FAER Academy of Research Mentors in Anesthesiology since 2012.

“While his extraordinary personal achievements in academic anesthesiology are apparent from his CV, Joseph’s dedication and track record of success as a mentor form the basis of this nomination. His remarkable capabilities in the process of guiding, supporting, and promoting the training and career development of others will be summarized below and are further outlined in the additional letters that accompany this nomination – all of them written by Joseph’s mentees.”

– Karsten Bartels, MD, PhD, MBA
University of Nebraska

“In terms of integrity, on multiple occasions I have seen Dr. Mathew stick to his word even when it would have been easier for him to change his mind, and I have received emails with detailed comments on papers and grants from him late at night even when he has to be back at work at 6 a.m. the next morning. Dr. Mathew consistently does the right thing even when it’s not the easy thing to do, he insists that his trainees do the same, and he shows them how to do so by leading via example.”

– Miles Berger, MD, PhD
Duke University

“The challenges to academic anesthesiology and to maintaining ‘true North’ have never been greater, and leaders and mentors like Joseph are critical for our specialty and subspecialty. His verticality, integrity, sincerity, long-term commitment, and consistency are trusted and proven traits that make multi-generational anesthesiology trainees ‘want to be like Mathew’.”

– Mihai V. Podgoreanu, MD
Duke University
Step Up for FAER

Drs. Ximena and Daniel Sessler, inspired by the importance of FAER’s mission, helped start a matching gift challenge in 2021, called Step Up for FAER. They issued a $100,000 matching gift that, by stepping up themselves, inspired others to step up their support for FAER as well.

Each contribution to this multi-year campaign is matched 1:1 up to $100,000 per year and will help establish a named, endowed Mentored Research Training Grant (MRTG) focused on clinical investigators. To follow is a list of all donors who contributed to the Step Up for FAER campaign in 2021.

Anonymous
Michael J. Avram, PhD
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Amber K. Zdanovec, MD

FAER establishes the Research in Education Grant to aid those focused on education in anesthesiology.

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Thank you for your support for FAER in 2021. 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, most importantly, to improve lives.

This report recognizes donations made between January 1, 2021, and December 31, 2021. 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 we may make corrections for future listings.

2021 Contributors

NOTE: Individual contributors with a (*) have supported FAER for 10 or more consecutive years (2012-2021).

Individual Donors

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Kathie Empsucha
Sanford M. Miller, MD, FACA, and Marcia Miller
Madhukanta J. Patel, MD, and Jagendra Patel
Daniel I. Sessler, MD, and Ximena Valdes Sessler, MD*

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Corrie Anderson, MD, and Virginia E. Williams II
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Glenn Deboer, MD, FACA
Mark Dershowitz, MD, PhD, and Renee Dershowitz, MD

35 years

The first ever FAER Honorary Research Lecture is given by Debra A. Schwinn, MD, titled: “Thinking Out of the Box – Anesthesiology Research in the 21st Century.”

2001
Individual Donors

Richard P. Dutton, MD, MBA, FASA, and Greykell Dutton
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Joyce A. Wahr, MD, and Dennis Wahr, MD, in memory of Paul G. Barash, MD
Thomas L. Warren, MD, in memory of Stanley Antosh, MD

“Wealth was one of two or three people who changed my life and enabled me to establish my career in academic medicine. But more than that, he was a dear friend and guide whose limitless energy and creativity is an unfailing inspiration to what is possible.”
David M. Polaner, MD, in memory of Dr. Warren Zapol

“Dr. Barash was a gentle giant in our world: an author, a teacher, a mentor, a researcher - and a loved friend. He has left an amazing legacy in our community that we can emulate, but also a void that we cannot fill.”
Joyce A. Wahr, MD, and Dennis Wahr, MD, in memory of Dr. Paul G. Barash

“Alan and I met often over ‘a cup of soup’ in the hospital cafeteria. He had a gentle way of making me examine my ideas and thus helped me more fully develop as a scholar and a physician. I miss Alan’s dry wit and wisdom every day.”
Douglas Bacon, MD, MA, in memory of Dr. Alan D. Sessler

35 years

The Mentored Research Training Grant increases by 40% to a total award amount of $250,000.

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FAER holds the inaugural “New Investigators” panel, allowing former grant recipients to present their research.

2016
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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 2021.

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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.

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“During my time as Chair, I had the pleasure to engage with the students, residents, and investigators who are supported by FAER. Seeing such talented anesthesiology investigators grow in their careers and pursuit of research has been profoundly rewarding —the future of anesthesiology is certainly bright! I look forward to continuing to support FAER and its mission.” Harriet W. Hopf, MD, FUHM, FASA; 2021 FAER Board Chair

“FAER is a central component to the ongoing impact of anesthesiology in healthcare and research. The long-term planning of FAER to support the early research careers of anesthesiologists can help prevent attrition from research-career tracks that are particularly vulnerable at the earliest stages. Through its Mentored Research Training Grant, FAER’s support of my career trajectory and research growth was critical in obtaining my K08 award from the NIH/National Cancer Institute.” Eellan Sivanesan, MD; 2020 FAER MRTG Recipient

“There is no organization I would rather support than FAER. The future of anesthesiology depends on the next generation of anesthesia investigators, and FAER is the major source of early career funding and research training.” Daniel I. Sessler, MD; FAER Board Member

FAER achieves over $50 million in research-based grants and programs awarded.

2021
Financials

Fiscal Year 2021 Highlights

REVENUE

- American Society of Anesthesiologists $1,600,000
- Corporations & Practice Groups $37,052
- Component & Other Societies $168,901
- Individuals $508,386
- Foundations $54,585
- Schools $417,500
- Other Income $28,035
- Grants Returned ($37,400)

Total Revenue $2,777,059

EXPENSES

- Program Services $3,217,855
- Fundraising $206,982
- Management & General $314,196

Total Expenses $3,739,033

Statement of Financial Position (as of December 31, 2021)

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<tr>
<th>ASSETS</th>
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<th>LIABILITIES AND NET ASSETS</th>
<th></th>
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<tr>
<td>Cash</td>
<td>$1,324,368</td>
<td>Liabilities</td>
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<tr>
<td>Receivables and Other Assets</td>
<td>$139,150</td>
<td>Unrestricted Net Assets</td>
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<td>Investments</td>
<td>$32,857,808</td>
<td>Restricted Net Assets</td>
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<td>Beneficial Interest in Trust</td>
<td>$856,303</td>
<td>Total Liabilities and Net Assets</td>
<td>$35,213,980</td>
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<tr>
<td>Other</td>
<td>$36,351</td>
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</tr>
<tr>
<td>Total Assets</td>
<td>$35,213,980</td>
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<td></td>
</tr>
</tbody>
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*The audited financial statements above are pending full approval by FAER's Board of Directors in October 2022.
THANK YOU

for the AUA’s 30+ years of support of the Foundation for Anesthesia Education and Research (FAER). In 2021 AUA reached and surpassed $1,000,000 in donations to FAER. We are immensely appreciative of the AUA and their longtime support of helping FAER develop the next generation of physician investigators in anesthesiology.

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