

Funding Sources for Education Research IARS

SAAAPM 2017
Beverly A. Orser, MD, PhD, FRCPC, FACH
Chair, Department of Anesthesia
Professor of Anesthesia and Physiology
University of Toronto




Department of Anesthesia, University of Toronto



Objectives

- IARS mission
- Opportunities for funding education research
- Previous funded project
- Indirect support through educational events
- Discussion

Mission

The IARS mission is to encourage, stimulate, and fund ongoing anesthesia-related research projects that will enhance and advance the specialty, and to disseminate current, state-of-the art, basic and clinical research data in all areas of clinical anesthesia, including perioperative medicine, critical care, and pain management.



| | | |
|--|--|--|
|  <small>John F. Butterworth, IV, MD Chairman Richmond, Virginia</small> |  <small>Dery C. C. Chang, MD Past Chair London, Ontario, Canada</small> |  <small>Kerry Simons, MD, PhD Treasurer Boston, Massachusetts</small> |
|  <small>Makoto Ozaki, MD, PhD Secretary Sapporo, Hokkaido, Japan</small> |  <small>Surbhanshu Torankar, MD Assistant Editor Chicago, Illinois</small> |  <small>Colleen G. Koch, MD, MEd, MEd Member At Large Baltimore, Maryland</small> |
| Board Members | | |
|  <small>Michael S. Acilino, MD St. Louis, Missouri</small> |  <small>Alan S. Evans, MD St. Louis, Missouri</small> |  <small>Keith A. "Tony" Janks, MD Birmingham, Alabama</small> |
|  <small>Laura E. Hillstrom, MD, PhD New Haven, Connecticut</small> |  <small>Christian P. Werner, MD Mainz, Germany</small> | |

IARS Direct Support of Research

- Frontiers in Anesthesia Research Award
- IARS Mentored Research Awards
- SmartTots Research Funding

Applications are reviewed and selected by panels that are independent of the IARS Board of Trustees.
Evaluations are based on scientific merit and the specific objectives of the funding program.



Frontiers in Anesthesia Research Award

- \$750,000 grant, awarded triennially
- Fosters innovation and creativity by an individual investigator
- Projects must have significant originality, a direct relevance to anesthesiology, and play a critical role in the scientific evolution of a novel concept.
- Applicants must demonstrate commitment to research and the potential for leadership.
- Applications must address one of the following areas of research:
 - Fundamental Neuroscience Unknowns
 - Immune, Inflammatory and Metabolic Consequences of Trauma, Surgery and Critical Care
 - Best Use of Systems-Based Practice to Enhance Patient Safety & Quality



2015 Frontiers in Anesthesia Research Award



Judith Hellman, MD

Professor, Department of Anesthesia and Perioperative Care
Vice Chair for Research, Department of Anesthesia and Perioperative Care
University of California, San Francisco

Endothelial inflammatory pathways in septic vasculopathy and organ injury



Frontiers in Anesthesia Research Award

- Applications for the 2018 Frontiers Award will open on November 13, 2017
- Application deadline is January 31, 2018
- Info and complete guidelines at www.iars.org/awards/fara/



IARS Mentored Research Awards

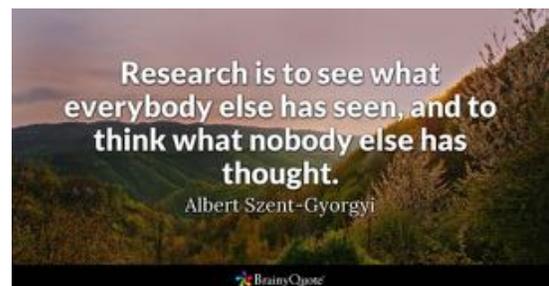
- \$175,000 grants, 4 awarded annually
- Support investigations that further the understanding of clinical practice in anesthesiology and related sciences
- Support applicants who have yet to establish substantial independent research funding or who are initiating a new area of research.
- Applications are reviewed on the basis of scientific merit, adequate preliminary data, career potential of the investigator, and a supportive research environment.



2016 SAAA-IARS Research Grant - \$150,000

The Society of Academic Anesthesiology Associations (SAAA) provided a one-time contribution of \$75,000 to support of research in the area of **anesthesiology and perioperative medicine education**.

The IARS matched the contribution to create a \$150,000 educational grant.



Spencer Foundation (modified)

www.spencer.org

- proposals are expected to be hypothesis-driven, and have a strong research designs and rigorous analytic methods
- give a clear and compelling account of how the research proposed may be significant for educational policy and practice
- conceptual framework to show the research will contribute to understanding in ways that go beyond the study at hand and impact anesthesiology

Spencer Foundation's funding guidelines: No Funding

- Scholarships or studentships
- Curriculum or program development and implementation
- Evaluations of curriculum or programs
- Professional development activities

2016 IARS Mentored Research Awards

Eric Vu, MD, Baylor College of Medicine
Predictive Analytic Tool for Diagnosis of Coronary Allograft Vasculopathy

Daniel McIsaac, M.D., M.P.H., F.R.C.P.C., The Ottawa Hospital Research Institute
A PSH for the Frail Elderly (Phase 3): Prehabilitation of Frail Elderly

Angela Meier, MD, PhD, University of California, San Diego
Anesthesia and Sex Specific, Immune Dependent Impact on Cancer Progression

Wei Zhou, MD, PhD, UC San Francisco Medical Center/UCSF Children's Hospital
The Roles and Applications of Orexin/Hypocretin System in Anesthesia



Predictive Analytic Tool for Diagnosis of Coronary Allograft Vasculopathy



Eric Vu
 Baylor College of Medicine, Houston, Texas

Indirect support for Early-Stage Scholars

Scholars Program at IARS Annual Meeting (AUA, SOCCA, IARS, eSAS)

- Co-Sponsored by IARS, AUA, eSAS
- Funded in part by an NIH Conference Grant



NIH-Funded Conference Series: "Securing the Future of Academic Anesthesiology"



- NIGMS R13 grant to Mashour & Avidan will support multiple conferences for emerging anesthesiology scholars
- Integrate all 15 T32 programs in nanesthesiology
- Inaugural R13-funded event:
 - **2017 IARS / eSAS Scholars' Program**

**NIH-Funded Conference Series:
Intended audience and goals**



Specific Aims

Aim 1: Organize a series of meetings that empower junior academic anesthesiologists to create impact through translational research

Aim 2: Improve mentorship practices, series of meetings and provide broader access to mentors for junior academic anesthesiologists



Early-Stage Anesthesiology Scholars (eSAS) is a nascent community of junior anesthesiologist-scientists who are interested in pursuing academic careers. It is open to all junior faculty, fellows, residents and medical students who identify as “early stage” and who are interested in contributing to the future of our specialty.

<http://esashq.org/>

2017 IARS Annual Meeting

- Principles of translational research
- Reproducibility across the translational spectrum
- Commercialization, innovation, and entrepreneurship
- Precision medicine
- Diversity in academic anesthesiology programs
- NIH funding
- Mentors and mentees – discussions and feedback







Objectives

- IARS Mission
- IARS sponsored opportunities for supporting education research
- Indirect support through educational events
- Discussion

Thank you

