

October 9, 2014

2:30 – 3:15 PM

Mentoring Session: Making My Clinical Research Project a Success: Funding a Project

- 1) **Essential elements for a successful research program:** presented by previous speakers:
 - a. Research Idea:
 - i. Developing one
 - ii. Designing a study to test your idea
 - b. Qualities of a mentor:
 - i. track record of funding
 - c. Writing the study proposal:
 - i. critique from a number of faculty with grants

- 2) **There are multiple places to consider for funding:**
 - a. Intra-departmental
 - b. Intra-institutional
 - c. Specialty organizations
 - d. Government

- 3) **Intra-departmental:**
 - a. Training in research
 - b. Course(s)
 - c. Research Budget
 - d. Technician
 - e. Supplies
 - f. Non-clinical Time (most important and most expensive)

- 4) **Intra-institutional:**
 - a. Training in research
 - b. Columbia Summer Research Institute Course (CSRI)
 - c. 5 weeks
 - d. Study research methodology: research design, epidemiology and biostatistics
 - e. Junior grant
 - f. Assistant and Associate Professor Grants which provide protected time and limited research funds

- 5) **Speciality organizations:**
 - a. Foundation for Anesthesia Education and Research (FAER)
Mentored Research Training Grant
 - i. Basic Science
 1. Fundamental questions broadly related to anesthesiology. Typically laboratory experiments with cells or animals.
 - ii. Clinical or Translational Research
 1. Research conducted with human subjects, or on material of human origin such as tissues, specimens and cognitive phenomena, for which the investigator directly interacts with human subjects. It includes mechanisms of human disease, therapeutic interventions, clinical trials and/or development of new technologies. Studies would typically require approval from the local institutional review board.

- iii. Health Services Research
 - 1. Outcomes and health services research examines how people obtain access to health care, the cost of care and what happens to patients as a result of this care. The main goals of health services research are to identify the most effective ways to organize, manage, finance and deliver high quality care. This grant is jointly sponsored with the Anesthesia Quality Institute.
- iv. Research in Education Grant
 - 1. The Research in Education Grant advances the careers and knowledge of anesthesiologists interested in improving the concepts, methods and techniques of education in anesthesiology. The REG is focused on developing innovative approaches for anesthesia education.
- v. Research Fellowship Grants
 - 1. Research Fellowship Grants are intended to provide anesthesiology residents and fellows with the opportunity to obtain significant training in research techniques and scientific methods.
 - 2.

b. International Anesthesia Research Society (IARS):

Research Awards

- i. Frontiers in Anesthesia Research Award - \$750,000
- ii. Established in 1995 to foster innovation and creativity by an individual researcher in the anesthesiology field.
- iii. IARS Mentored Research Award - \$600,000
- iv. Intended to support investigations that will further the understanding of clinical practice in anesthesiology and related sciences.
- v. SCA-IARS Research Grants - \$200,000
- vi. In 2009 the IARS pledged a gift of \$1 million dollars to the Society of Cardiovascular Anesthesiologists (SCA) Foundation to support the SCA-IARS Starter and Mid-Career Grants.

Education Awards

- i. Teaching Recognition Awards- \$17,000
Designed to recognize individuals with outstanding teaching skills and career contributions to the academic community. The award is comprised of two separate parts, Innovation in Education and Achievement in Education.

c. Anesthesia Patient Safety Foundation (APSF):

Two stage application:

- Letters of Intent (LOIs) solicited for research and development on anesthesia patient safety that is related to identifying the causes of preventable injuries and errors.
- Based on the APSF's Scientific Evaluation Committee's evaluation of these LOIs, a limited number of applicants will be invited to submit a full proposal.

d. Society of Cardiovascular Anesthesiologists (SCA):

- i. SCA In-Training Grant - \$15,000 a year for one year.
- ii. SCA/IARS Starter Grant - \$25,000 a year for two years.
- iii. Roizen Anesthesia Research Foundation New Investigator Grant - \$50,000 a year for two years.
- iv. SCA/IARS Mid-Career Grant - \$50,000 a year for two years.

6) Non-anesthesiology Speciality Organizations:

- a. American Federation for Aging Research (AFAR)

- i. Glenn/AFAR Postdoctoral Fellowship Program for Translational Research on Aging
 - ii. AFAR Research Grants for Junior Faculty
 - iii. Arthritis and Aging Research Grant
 - iv. The New Investigator Awards in Alzheimer's Disease
 - v. Glenn/AFAR Breakthroughs in Gerontology Award
 - vi. Glenn/AFAR Scholarships for Research in the Biology of Aging
- b. American Heart Association/American Stroke Association
The American Heart Association funds research broadly related to cardiovascular disease and stroke. The association supports research in clinical and basic sciences, bioengineering, biotechnology and public health.

7) **Speciality Organizations related to organs/diseases:**

- a. Parkinson's Disease Association
- b. Michael Fox Foundation
- c. American Association for the Study of Liver Diseases

8) **Government:**

Search for the Right Funding Opportunities

Search Funding Opportunities for Your Research Idea

NIH announces availability of funds for grant programs by issuing [Funding Opportunity Announcements \(FOAs\)](#) in the [NIH Guide for Grants and Contracts](#) and on [Grants.gov](#).



National Institutes of Health:

- **RESEARCH GRANTS:**
 - **R01 Research Project Grant Program**
 - R03 Small Grant Program
 - R13 & U13 Support for Conferences and Scientific Meetings
 - R15 Academic Research Enhancement Award (AREA) Grants
 - R21 Exploratory/Developmental Research Grant Award
 - R34 Clinical Trial Planning Grant
 - R56 High Priority, Short-Term Project Award
- **CAREER DEVELOPMENT GRANTS:**
 - K01 Mentored Research Scientist Development Award
 - K02 Independent Scientist Award
 - K07 Academic Career Award (health professional or science doctorate)
 - K08 Mentored Clinical Scientist Development Award
 - K12 Mentored Clinical Scientist Development Program Award
 - **K23 Mentored Patient-Oriented Research Career Development Award**
 - K24 Midcareer Investigator Award in Patient-Oriented Research
- **RESEARCH PROGRAM PROJECTS AND CENTERS:**
 - P01 Research Program Projects
 - P30 Center Core Grants
 - P60 Comprehensive Center Grants

Reference: (1) Alberts B, Kirschner MW, Tilghman S, Varmus H. Rescuing US biomedical research from its systemic flaws. Proc Natl Acad Sci U S A. 2014;111(16):5773-7.