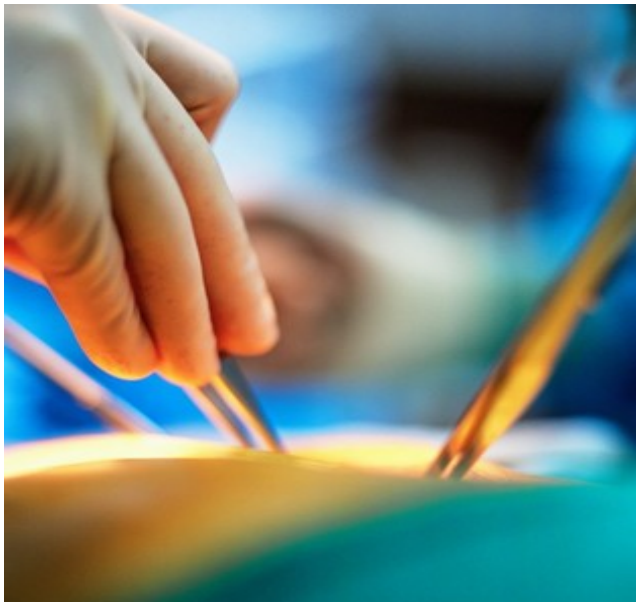
Beth Israel Deaconess Medical Center

Funding Sources for Surgical Residents

2010-2011



Prepared by: **Division of Surgical Research**
Department of Surgery
Beth Israel Deaconess Medical Center

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Funding Deadline Quick Reference 2010/2011

Funding Source	**Application Deadline**	**Start Date**	**Amount of Support**
Harvard-Longwood Research Training Grant in Vascular Surgery	January 1st	July 1st	$37,740- $52,068
Research Training in Alimentary Tract Surgery	January 1st	July 1st	$37,740- $52,068
Research Training in Cardiovascular Surgery	January 1st	July 1st	$37,740- $52,068
Research Training in Transplantation Surgery	January 1st	July 1st	$37,740- $52,068
American Society of Transplant Surgeons	January 8th	July 1st	$42,500
Surgical Infection Society	January 15th	July 1st	$50,000
Juvenile Diabetes Research Foundation	July 29th January 19th,	March 1st, September 1st	$43,240-$53,440
National Institutes of Health NRSA Awards	February 5th, June 5th, October 5th	April 8th, July 8th, December 8th	$37,740- $52,068
Association for Surgical Education Foundation	June 1st, December 1st	January 1st, July 1st	$25,000-$50,000
Society of University Surgeons	August 1st	July 1st	$30,000
American College of Surgeons	September 1st	July 1st	$30,000
American Society of Transplantation	November 12th	July 1st	$40,000
The American Philosophical Society	September 1st	July 15th	$50,000
Thoracic Surgery Foundation for Research and Education	October 17th	July 1st	$30,000
American Society of Transplantation	December 14th	July 1st	$45,000
Charles A. King Postdoctoral Research Fellowship Program	December 15th	July 1st	$43,500-$51,000

Harvard-Longwood Research Training Grant (T32) in Vascular Surgery

Summary:

- Fellowships are for 2 years and require a 2-year commitment.
- U.S. citizenship or permanent resident status is required.
- Salary is based on NIH guidelines according to Post Graduate Year (PGY).
- Applicant must complete 2-3 yrs of General Surgery training and plan a 1-2 year clinical fellowship in Vascular Surgery.
- This T32 program is designed to provide intensive research training with the goal of preparing individuals to become independently funded investigators in the field of vascular surgery.

Application Deadline: January 1st
Start Date: July 1st
Program Director: Frank W. LoGerfo, MD

Contact:
Leena Pradhan, PhD
Harvard-Longwood Research Training Grant in Vascular Surgery
Beth Israel Deaconess Medical Center
330 Brookline Ave, St 8M10 E
Boston, MA 02115
617-667-0096

Description of the Program:
This training program, *The Harvard-Longwood Research Training in Vascular Surgery*, is designed to provide two years of intense training in vascular surgery research for academic clinicians. The training program continues to address the absence of adequate research training for vascular surgeons as it applies to specific areas of clinical disease. Research training is provided in molecular and cell biology, biomechanics, coagulation and thrombosis, and angiogenesis with a focus on clinically relevant problems such as atherogenesis, intimal hyperplasia, prosthetic/host interactions and thrombosis.

Specific Details of the Trainee Program:
This program is designed primarily for individuals who have completed two to three years of clinical training in general surgery and who plan a one- to two-year clinical fellowship in vascular surgery following completion of their general surgery training. This program preferentially selects among candidates with a demonstrated interest in pursuing an academic career. The goal of this training program is to prepare the trainee to perform state-of-the-art investigation in his/her chosen area of vascular disease related research immediately upon assuming his/her first faculty position. Such individuals are equipped to develop independent research programs and are able to compete successfully for research funding.
The program is designed to accommodate up to six trainees per year, dependent on budget. The content of each individual's two years research training program is examined in detail and reviewed regularly to maximize his/her success. Supplemental course work, although not required, is available to trainees in need of instruction in statistics, experimental design, and areas of cellular and molecular biology. T32 faculty members provide instruction in analysis of current literature in vascular surgery research so that candidates are able to participate in a monthly journal club to critique journal articles.
Upon admission to the training program, the trainee reviews existing research activities covered by

this training grant and, with advice/help from the Director, selects a specific basic science laboratory for his/her research. Current options for research mentors and research topics are listed in **Table** 1. The trainee's mentor is responsible for providing a laboratory environment supportive of the trainee's research interests. The faculty mentor works closely with the trainee ensuring that the results are submitted to appropriate local, regional, and national societies for presentation and/or publication.

Table 1 Surgical Faculty and Projects Available in the Vascular Surgery T32 Training Program

Name/Degree(s)	Institution	Role in Program	Research Interest
Frank W. LoGerfo, MD	BIDMC	Program Director and Mentor	Vascular grafts; intimal hyperplasia
John Z. Ayanian, M.D., M.P.P.	HMS & BWH	Mentor	Access to care; quality of care; health care disparities in cardiovascular medicine
Elliot Chaikof, MD PhD	BIDMC	Mentor	Bio/Molecular Engineering and Advanced Vascular Technologies
Patricia A. D'Amore, PhD	SERI	Mentor	Development and growth control in the vasculature
Pedro J. del Nido, MD	CHB	Mentor	Ischemic contracile dysfunction and apoptotic pathway activation
Christiane Ferran, MD, PhD	BIDMC	Mentor	Modulation of endothelial cell activation by the anti-apoptotic gene A20 and protection of the vessel wall from athero-sclerosis using A20
Michael A. Gimbrone, Jr, MD	BWH	Mentor	Endothelium-dependent mechanisms in vascular disease
Per-Olof Hasselgren, MD, PhD	BIDMC	Mentor	Molecular mechanisms of sepsis in surgery
Seth Karp, MD	BIDMC	Mentor	Molecular mechanisms of liver development and regeneration
George L. King, MD	Joslin	Mentor	Vascular dysfunction in diabetes mellitus
Bruce Landon, MD, MBA	BIDMC	Mentor	Development of a theoretical model to explain the potential impact of health-care organizations on the quality of patient care
Robert S. Langer, DSc	MIT/ CHBV	Mentor	Interface of biotechnology and material sciences
James Lederer, PhD	BWH	Mentor	Immune system during injury and trauma
Steven Mentzer, MD	BIDMC	Mentor	Regenerative medicine by

			application of principles of structural biology, adaptive physiology and tissue engineering
Richard N. Mitchell, MD, PhD	BWH	Mentor	Immune-mediated arteriopathy
James P. Morgan, M.D., Ph.D.	BIDMC	Mentor	Stem cells in myocardial regeneration
Richard C. Mulligan, PhD	CHB	Mentor	Gene transfection of vascular cells
Louis Nguyen, M.D., M.B.A., M.P.H.	BWH	Mentor	Clinical outcomes and economic analysis research
J. Peter Oettegen, MD	BIDMC	Mentor	Intracellular signaling/transcription
Keith Ozaki, M.D.	BWH	Mentor	Inflammation and hemodynamic adaptation
Marc Schermerhorn, MD	BIDMC	Mentor	Clinical outcomes research

During the two-year program, each trainee will prepare and present three or four seminars related to their research. These seminars provide an opportunity to explore clinical applications of the research project and the inter-relationship of the project to developments in other basic science disciplines.
Each year two outside reviewers are invited to review the work of the T32 trainees. These experts provide critical in-depth review of the trainee's research and act as a contact individual for support in collaborative efforts in the trainee's future research endeavors. During the visit, the expert presents their own research work, in a grand rounds forum, to the Longwood Medical Area community.
Although this program is not designed to lead to an advanced degree, the thrust of the program is to take advantage of the clinician's broad background in biomedicine to maximize the time devoted to actual research training. The goal is to provide a period of concentrated basic science research experience, which is similar to that of the average PhD candidate. This emphasis on the practical aspects of research training enable the candidate to develop competence with many of the most up-to-date research techniques available in the various units participating in this training grant.

During the two-year research training program, trainees have no clinical patient care responsibilities but maintain contact with the Harvard-Longwood Medical Area surgery programs by clinically based conferences. Regularly scheduled multidisciplinary conferences maximize the exposure of the trainees to the basic research and the clinical activities within the major units participating in the training program. These conferences enhance the interchange of clinical and basic science information and help maintain the focus in training in clinically relevant areas.
Trainees are required to take advantage of the many seminars and lectures offered in the Longwood Medical Area during their research training. As an example, attendance is mandatory at the weekly seminar in vascular biology research. In addition, the Department of Surgery holds Surgical Grand Rounds; Surgical Research holds Research Update and Techniques Seminars; and there are a variety of courses at Harvard Medical School and at the Harvard School of Public Health to supplement each trainee's basic science knowledge. Funds are available to support one course per semester during a trainee's first year of research training.

Trainee Qualifications:
The number of trainees each year will be limited to eight, with some trainees in their first and others

in their second year of the training program. Selection is made strictly on the basis of merit from clinical graduate training programs throughout the United States. The program is structured such that no more than two trainees can work with any one member of the faculty at any one time. It is expected that this maximizes trainee-investigator interactions and permits a wide variety of experience among the trainees entering the program.

Recruitment Plans and Selection Criteria:

To recruit the most outstanding candidates and to provide optimal access to the program, the program is publicized widely in academic circles. Announcements are sent annually to the chairpersons of all academic vascular surgical departments in the United States. To attract minority candidates, program announcements are also sent annually to the Association for Academic Minority Physicians, the National Association of Medical Minority Educators, as well as to the Association of Women Surgeons, which publishes the announcement in their quarterly newsletter. In addition, posters and flyers announcing the training program are displayed at scientific educational meetings, in particular, the American College of Surgeons, the Society for Vascular Surgery, and the American Association for Vascular Surgery, as well as at the NIH Minority Biomedical Research Support Symposium. This program is also widely advertised in journals.

As detailed above, trainees are selected from surgery residents in training and individuals who have a clear commitment to academic careers are given preference. Interested individuals apply one year prior to the beginning of the intended two-year training period. The application deadline is January 1st of the academic year. Training periods typically start on July 1st of each academic year. All trainees are accepted on the basis of their background and qualifications (as evidenced by academic record in university and medical school, curriculum vitae, three letters of recommendation, and a personal statement detailing his/her specific research interest, training plan, and long-range goals, as well as on the distribution of trainees among the faculty). Selection is on merit only, without bias to gender, race, color, or ethnic origin. Completed applications are reviewed and considered for admission by the Training Program Executive Committee (TPEC). Prior to final selection, two members of TPEC, as well as the faculty member likely to serve as mentor interview top candidates.

Information about the training program, as well as the application, is available online at:
http://home.caregroup.org/templatesnew/departments/BID/vonliebig/uploaded_documents/training.htm

Research Training in Alimentary Tract Surgery

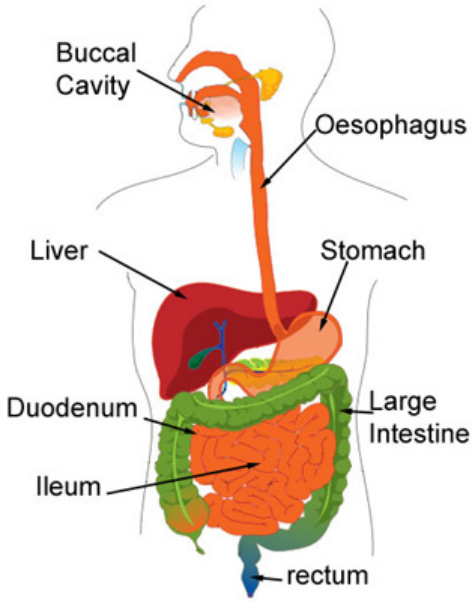
Summary:

- Fellowships are for 2 years and require a two year commitment.
- Inter-hospital T32 with participation by Surgery Departments from BIDMC, BWH, and MGH.
- U.S. Citizenship or permanent resident status required.
- Salary based on NIH guidelines according to Post Graduate Year (PGY).
- This T32 Program is designed to provide intensive, coordinated research training with the goal of preparing individuals to become independently funded investigators in the field of alimentary tract surgery.

Application Deadline: January 1st

Start Date: July 1st

Program Director: Richard Hodin, MD



Contact:
Richard Hodin, MD
Department of Surgery
Massachusetts General Hospital

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Boston, Mass. 02114
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Description of the Program:

The T32 Program in Alimentary Tract Surgery has been designed to train the next generation of academic gastrointestinal (GI) surgeons through a focus in basic science of the alimentary tract with an expanded focus on clinical research and surgical innovation. The resources and talented personnel in the Harvard Medical School community have been leveraged to create a unique environment for the research training of future academic GI surgeons. The program includes investigators from all three major adult teaching hospital affiliates of Harvard Medical School (BIDMC, BWH, and MGH) and is comprised of three research tracks: (1) Basic Science, (2) Clinical Research/Outcomes and (3) Surgical Technology/Innovation (**Table 1**). The Program has been designed to bring surgeon-scientists together from these three different investigative disciplines, establishing a unique environment for collaboration and interaction. The Training Program Executive Committee (Drs. Hodin, Soybel, and Hasselgren) oversee the selection of trainees, designation of preceptors, prescription of formal coursework, and participation in programs teaching ethics and the responsible conduct in research. The Program is open to surgical residents or fellows in accredited U.S. Residency Programs and a pro-active process is in place to seek applications from individuals belonging to under-represented minority groups. The faculty mentors and project areas are listed in **Table 2**.

Table 1 Administrative Structure of the Alimentary Tract Surgery T32 Training Program

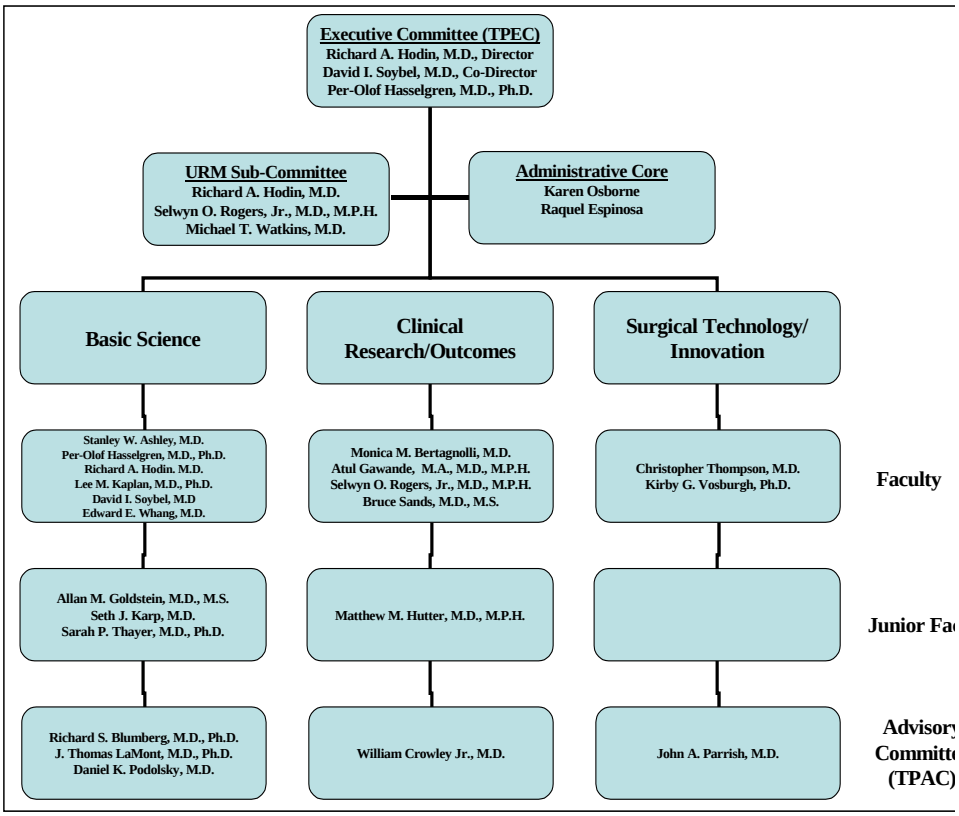


Table 2 Surgical Faculty Preceptors and Projects Available in the Alimentary Tract Surgery T32 Training Program

Name/Degree(s)	Academic Appointment	Role in Program	Research Interest
Stanley Ashley, MD	Surgery	Mentor	Basic Science - Intestinal adaptation
Monica Bertagnolli, MD	Surgery	Mentor	Clinical Research/Outcomes – Colon cancer prevention
Richard Blumberg, MD	Medicine	Advisory Committee	Basic Science – Intestinal immunity
William Crowley, MD	Medicine	Advisory Committee	Clinical Research/Outcomes – Endocrine disorders
Atul Gawande, MD, MPH	Surgery	Mentor	Clinical Research/Outcomes – Improving surgical outcomes

Allan Goldstein, MD	Surgery	Mentor	Basic Science - Enteric nervous system
James Gordon	Medicine	Mentor	Surgical Technology/Innovation - New approaches to endoscopic surgery
Caprice Christian Greenberg, MD	Surgery	Mentor	Clinical Research/Outcomes – Improving surgical outcomes
Per-Olof Hasselgren, MD, PhD	Surgery	Executive Committee and Mentor	Basic Science - Protein breakdown and alterations in muscle and enterocyte function during sepsis
Richard Hodin, MD	Surgery	Program Director, Executive Committee, Mentor	Basic Science - Mechanisms of growth and differentiation of the intestinal mucosa during starvation and gut mucosal defense.
Matthew Hutter, MD, MPH	Surgery	Mentor, Junior Faculty	Clinical Research/Outcomes - Clinical effectiveness
Lee Kaplan, MD, PhD	Medicine	Mentor	Basic Science - Biology of obesity and surgical treatments
Seth Karp, MD	Surgery	Mentor, Junior Faculty	Basic Science - Molecular basis for liver development
Selwyn Rogers, Jr., MD, MPH	Surgery	Mentor	Clinical Research/Outcomes - Surgical outcomes
J. Thomas Lamont, MD	Medicine	Advisory Committee	Basic Science – Intestinal infections
Sareh Parangi, MD	Mentor	Mentor, Junior Faculty	Basic Science- Thyroid cancer
John Parrish, MD	Dermatology	Advisory Committee	N/A
Mark Puder, MD	Surgery	Mentor	Basic Science – TPN-associated liver disease and other intestinal disorders
Bruce Sands, MD	Medicine	Mentor	Clinical Research/Outcomes - IBD clinical research

David Soybel, MD	Surgery	Program Co-Director, Executive Committee, and Mentor	Basic Science - Cell physiology of acid secretion and gastric injury.
Sarah Thayer, MD, PhD	Surgery	Mentor, Junior Faculty	Basic Science - Biology of pancreatic cancer and the hedgehog pathway
Christopher Thompson, MD	Medicine	Mentor	Surgical Technology/Innovation - New approaches to endoscopic surgery
Kirby Vosburgh, PhD	Radiology	Mentor	Surgical Technology/Innovation Using technology to improve patient care
Edward Whang, MD	Surgery	Mentor	Basic Science - Biology of pancreatic cancer
Ramnik Xavier, MB, BCH	Medicine	Mentor	Basic Science – Inflammatory Bowel Disease

Opportunities are open to current or recently graduated residents in accredited U.S. or Canadian Surgical Training Programs. Fellowship appointment requires U.S. citizenship or U.S. permanent resident status. Applications from members of under-represented minorities are strongly encouraged.

Commitments of the Training Program:
The Training Program is committed to the training of each assigned fellow and to support research with time, effort, funds and a constructive work environment, including identification of co-mentors in non-surgical disciplines (as needed). Support for research includes ~$3000/yr per trainee for support of training-related expenses, travel, and coursework. Support for training expenses beyond this is provided through grants of the sponsoring preceptor or Department of Surgery.
Please note: The Training Program, Preceptors, and Institutions make no commitments regarding housing, identification of moonlighting opportunities, future job placement or residency positions. We also make no or commitments related to benefits or expenses except those explicitly related to research training.

Stipends and financial support for Alimentary Tract T32 Fellows:
Stipends are determined by current NIH NRSA guidelines per individual post-graduate year of training. Thus, for a resident entering after 2 years of post-MD training (PGY2), the total years of relevant training is 2; for a resident entering after a five-year surgical training program and 2 years of fellowship in post-doctoral research (MD or PhD) the total number years of relevant training is 7 (PGY7). Please note: these salary levels are set by policy of NIH and subject to change or modification based on NIH guidelines and criteria for appointment. Current (2010) stipend levels can be found at:
http://grants.nih.gov/grants/guide/notice-files/NOT-OD-10-047.html

Harvard-Longwood Medical Area Training Grant (T32) in Transplantation

Summary:

- Fellowships for surgical residents or post-doctoral trainees are for 3 years and require a 3-year commitment.
- U.S. citizenship or permanent resident status is required.
- Salary is based on NIH guidelines according to Post Graduate Year (PGY).
- This program accepts pre-doctoral and post-doctoral (MD, PhD, or MD/PhD) trainees.
- This T32 program is designed to provide opportunities for young scientists and physician scientists for training in a wide variety of topics related to basic research in transplantation immunology (immunological mechanisms in transplantation).

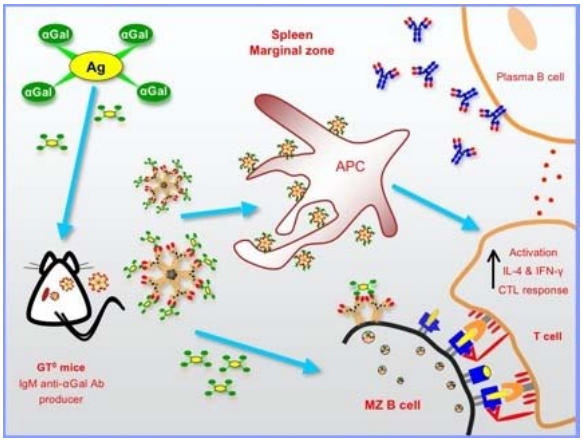
Application Deadline: January 1st

Start Date: July 1st

Program Director: John J. Iacomini, PhD

Contact:
John J. Iacomini, PhD
Department of Medicine
Brigham and Women's Hospital

Transplantation Research Center, LM303
221 Longwood Avenue
Boston, MA 02115
Phone: 617-727-9846
Email: jiacomini@rics.bwh.harvard.edu



Eur J Immunol. 35(9) 2638-2647

Description of the Program:

The Harvard Longwood Medical Area Training Grant in Transplantation provides opportunities for young scientists and physician scientists to train in a variety of topics related to basic research transplantation immunology with an emphasis on immunological mechanisms. Areas of research available to the trainees include tolerance, T cell activation, MHC structure and function, gene therapy, lymphocyte development. Infectious disease, autoimmunity, islet transplantation, bioinformatics and xenotransplantation. The major goal of this program is to produce outstanding independent investigators capable of addressing fundamental questions in the field of transplantation. Faculty and major teaching hospitals from the Harvard Longwood Medical Area and Harvard Medical School provide a unique environment to produce independent investigators in the field of transplantation.

Specific Details of the Trainee Program:

Pre-doctoral trainees will be selected from the Immunology Program at Harvard University's Division of transplantation immunology. This program will support one pre-doctoral trainee in year 1 and two in all subsequent years, distributed between students in their 1st, 2nd, 3rd or 4th year of thesis research. Training will take about 4 years.

Postdoctoral trainees holding a degree of MD, PhD or both will be selected based on their potential to pursue a career in research and teaching and commitment to independent investigational. Two postdoctoral trainees will be chosen in the 1st year and four in years 2 through 5 of the training proposal. Training will take about 3 years.

Trainees will choose a research advisor from the participating training faculty that will oversee daily research endeavors of the trainee. All trainees will participate in an interactive environment comprised of formal course work, departmental and interdepartmental seminar series, journal club and laboratory meetings. Exposure to a variety of disciplines is a major goal in this program preparing trainees for an independent career in transplantation immunology.

Other Harvard-Longwood Medical Area Training Grants (T32)

Program in Blood Coagulation and Vascular Biology

Contact:
Dr. Bruce Furie
bfurie@bidmc.harvard.edu
or
Dr. Robert Flaumenhaft
rflamenh@bidmc.harvard.edu

We would be very pleased to consider qualified surgical residents (and fellows) with an interest in coagulation and/or vascular biology for positions in this training grant. A list of faculty preceptors with whom the residents could work is provided below:

Bruce Furie	Hemostasis-Thrombosis, BIDMC
Barbara C. Furie	Hemostasis-Thrombosis, BIDMC
Kenneth Bauer	Hemostasis-Thrombosis, BIDMC
Harold Dvorak	Pathology, BIDMC
Daniel Tenen	Hematology-Oncology, BIDMC
Jerome Groopman	Experimental Medicine, BIDMC
John Hartwig	Translational Medicine, BWH
Simon Robson	Medicine, BIDMC
William Aird	Molecular Medicine, BIDMC
Hava Avraham	Experimental Medicine, BIDMC
Laura Benjamin	Pathology, BIDMC
Rob Flaumenhaft	Hemostasis-Thrombosis, BIDMC
Alan Cantor	Pediatric Hematology-Oncology, Children's Hospital
Joseph Italiano	Translational Medicine, BWH
Mingdong Huang	Hemostasis-Thrombosis, BIDMC
Natalia Beglova	Hemostasis-Thrombosis, BIDMC
Jeffrey Zwicker	Hemostasis-Thrombosis, BIDMC

The T32 Cardiovascular training grant at Beth Israel Deaconess Medical Center

Contact:
Alice Winkler
Program Administrator
Cardiovascular Research
330 Brookline Ave, E/CLS 9
Boston, MA 02215
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awinkler@BIDMC.harvard.edu

The T32 Cardiovascular training grant at Beth Israel Deaconess Medical Center: The program was initially funded in 1979 and has had a strong record of training fellows committed to careers in cardiovascular research. The T32 serves as a major mechanism for supporting physician-scientists in the program during two years of research that can come before or after their two years of clinical cardiology training. Although there are seven openings total, depending upon the year there will not always be spots available. Our training faculty have been recruited from basic and clinical researchers to ensure representation of important disciplines and approaches within cardiovascular research. While faculty are predominantly from the BIDMC cardiovascular division other local institutions are also represented including other divisions at BIDMC, Harvard Medical School, Dana Farber Cancer Institute (DFCI), Brigham and Women's Hospital (BWH), and HSPH. In this way, trainees are exposed to diverse research and institutional perspectives, and kept abreast of evolving opportunities at participating institutions.

Application Deadline: February 15th

Below please find a list of participating research labs:

Anthony Rosenzweig	Cardiovascular Research, BIDMC
J. Peter Oettgen	Preventive Cardiology, BIDMC
Murray A. Mittleman	Cardiovascular Epidemiology, BIDMC
Zoltan Arany	Cardiology, BIDMC
Joyce Bischoff	Vascular Biology, Children's Hospital
Jeffery Saffitz	Pathology, BIDMC
Jonathan and Christine Seidman	Genetics, HMS
Francine K. Welty	Cardiology, BIDMC

Internal Laboratory Research Opportunities

Beth Israel Deaconess Medical Center
Department of Surgery

Dr. Elliot Chaikof
Biomedical engineering of vascular tissue

Ongoing research in our group is directed at the following: 1) We study the design and fabrication of cardiovascular organs (e.g. tissue engineered blood vessels, tissue engineered heart valves, novel stent designs, and endovascular grafts); 2) We (i) engineer molecularly defined surfaces that prevent blood clotting in vitro and in vivo and (ii) develop computational FEM models using MatchCad and Comsol programs that describe surface induced coagulation events under flow as a design tool for this effort; and 3) We biochemically "re-engineer" the landscape of cell and tissue surfaces by the deposition of nanothin films or by the site-specific targeting of molecular inhibitors of local inflammatory events with the aim to improve outcomes after cell transplantation (e.g. islet transplantation for treatment of diabetes) and stem cell targeting to sites of injury. Available projects are appropriate for residents with the background or interests in biomaterials science, microfabrication, mechanical and/or chemical engineering, chemistry, genetic engineering, MEMS, stem cell biology and/or cell or drug delivery.

Contact:
Elliot L. Chaikof, M.D., Ph.D.
e-mail: echaikof@bidmc.harvard.edu

Dr. Susan Hagen
Mechanisms that Regulate Gastric Cancer Development

Research in our laboratory is focused on the molecular, cellular, and physiological regulation of gastric cancer development. We study cell death regulation that leads to gastric atrophy, specifically the link between proton pump inhibitors and parietal cell death in the inflammatory environment mediated by *H. pylori* infection (a risk factor for gastric cancer development), and the role of tight junction barrier proteins, specifically claudins 7 and 18, in supporting gastric cancer development. Residents would learn basic physiology and molecular techniques, animal surgery and isolated cell techniques, live cell microscopy using state-of-the art equipment, and how to design experiments, write papers and abstracts, and present at International meetings. Gastric cancer is the 4th most common cancer and the 2nd most common cause of cancer death worldwide. Additionally, there has been a dramatic increase in gastric cancer incidence in the US in individuals 25-39, which may be linked to the use of proton pump inhibitors. Thus, understanding mechanisms that regulate gastric cancer pathogenesis has significant clinical relevance.

Contact:
Susan J. Hagen, PhD
e-mail: shagen@bidmc.harvard.edu

Dr. Per-Olof Hasselgren
Muscle Wasting in Sepsis

Research in our laboratory is focused on the molecular regulation of muscle wasting in sepsis. Experiments are performed in animals and in cell cultures. In addition to small animal surgeries, tissue incubations, and cell cultures, techniques used in the laboratory include Western blotting, real-time PCR, cell transfections, and measurement of protein turnover rates. The studies have clinical relevance because they address mechanisms of a condition, muscle wasting, commonly seen in patients with sepsis and severe injury.

Contact:
Per-Olof Hasselgren, MD, PhD
e-mail: phasselg@bidmc.harvard.edu

Dr. Carl Hauser
Regulation of Inflammation in SIRS

Research in our laboratory is involved in discovery of novel molecular pathways by which activation of immune cell calcium influx causes inflammation after injury. We are currently investigating the role of these pathways in the pathogenesis of SIRS after injury. A major focus of our lab is investigation of intracellular 'danger' associated molecular patterns ("DAMPs") that are derived from mitochondria. This is expected to lead to the development of both biomarkers for sterile inflammation and to treatments that diminish SIRS in trauma patients.

Contact:
Carl Hauser, MD, FACS, FCCM
e-mail: cjhauser@bidmc.harvard.edu

Dr. Daniel B Jones
Simulation Lab

Research in the Simulation Lab can be involved in the following areas:
1. Simulation Development and Validation.
Residents would work with engineers and educators to enhance virtual reality simulators in surgery. This would Include VBLAST and lap band simulators.
2. 3D Modeling.
Residents would work to develop and validate three dimensional models from digital images for informed consent, training and surgical preparation.
3. Exercise and Weight Loss.
This area involves work with the Bariatric Program to study the impact of exercise and weight loss, and would be implemented in collaboration with Dr. George Blackburn (Surgery at BIDMC).

Contact:
Daniel B. Jones, MD, MS, FACS
e-mail: djones1@bidmc.harvard.edu

Dr. Seth Karp
Liver Development and Regeneration

Projects in the Karp laboratory focus on liver development and regeneration, and include basic and translational research. Residents interested in a rigorous basic science experience can work on fundamental questions in liver development using advanced technologies including tissue and temporally-specific gene deletions, high throughput whole mount in situ based screens, and lineage tracing using a variety of techniques. Liver regeneration can be studied using advanced virus-based gene delivery systems to add or delete proteins during liver regeneration. Residents looking for a more translational project can work on developing a number of promising drugs that have come out of our basic scientific studies. These will involve surgery in both small and large animal models. Our lab has many lines of preliminary data to assist the resident in choosing high yield projects likely to result in first author publications. Prospective residents will be assisted in preparing individual applications for funding, and the lab has access to a number of training grants and other funds to support resident salary and research.

Contact:
Seth Karp, MD
e-mail: skarp@bidmc.harvard.edu

Dr. Maria Koulmanda
Autoimmunity and Pancreatic Islet Transplantation in mice and non-human primates

We are interested in developing new agents that tilt the balance of pro-to anti-inflammatory state in mouse and non-human primate models. The two main areas of research are T1DM and pancreatic islet transplantation in mice and non-human primates. We have many ongoing projects in these areas, all with an emphasis toward ultimate clinical relevance. We have discovered new novel anti-inflammatory agents that block inflammation without altering the T cell function.
Work from our mouse and non-human studies are now supported by the Immune Tolerance Network for clinical trials in new-onset T1DM. As hypoxic- and ischemic-reperfusion type injuries lead to amplified expression of pro-inflammatory cytokines in human transplants, these findings open new opportunities for clinical application of inflammation-altering cytoprotective strategies. Residents will learn PCR, molecular biology, small and large animal surgery, and how to evaluate animal models.
We have a great laboratory environment, we have laboratory meeting once a week and this allows frequent discussions and work with different fellows and PI's.

Contact:
Maria Koulmanda, MSc., PhD
e-mail: mkoulman@bidmc.harvard.edu

Drs. Sidney Levitsky and James McCully
Cardioprotection in Ageing

Our laboratory has a position available to investigate integrated transcriptomic and proteomic alterations of cardioprotection in aged males and females. Investigations include isolation of RNA and protein, microarray fabrication and analysis, and proteomic analysis. All methods and techniques have been established in the laboratory.

Contact:
James D. McCully, PhD
e-mail: jmccully@bidmc.harvard.edu

Dr. Frank W. LoGerfo
Vascular Surgery Laboratory

We would be enthusiastic to have Surgical Residents at BIDMC apply to the Harvard-Longwood Research Training Grant in Vascular Surgery. Please refer to page 3 for details.

Contact:
Leena Pradhan, PhD
e-mail: lpradhan@bidmc.harvard.edu

Dr. Leo Otterbein
Carbon Monoxide and Nitric Oxide in Sepsis and Cancer

Therapeutic Gases: We are investigating the biology of gas molecules focused on carbon monoxide (CO) and nitric oxide and the enzyme systems that regulate them during pathological conditions particularly sepsis, organ transplant, liver regeneration and cancer. Our approach is cell/molecular as well as preclinical animal models. CO and NO are both in clinical trials and thus any discoveries may be immediately translated to the clinic. Our studies have revealed that CO and heme oxygenase-1 (HO-1) are required for an appropriate innate immune response during sepsis to combat infection. Recently, we have applied live bacteria models and showed that CO/HO-1 potentiates macrophage-mediated phagocytosis and killing of bacteria (including gram pos and neg, and M. tuberculosis) where CO is applied post-infection to mimic clinical settings. We are now exploring the effects on viral infections as well. Additional studies ongoing in the laboratory include the effects of gases on tumor growth and vascular injury with particular focus on how the gas molecules regulate DNA damage and signaling and the role of stem/progenitor cells. We find that CO can inhibit tumorigenesis and sensitize tumors to chemotherapy while protecting normal cells. CO also recruits bone marrow progenitors to the site of injury in a concerted effort to promote repair. In our approaches, we use biochemical, molecular biology and cell culture techniques. We use the transgenic and knockout models for our in vivo testing including large animal models. The environment in our laboratory is very interactive and allows collaborative discussions and independent projects.

Contact:
Leo E. Otterbein, PhD
e-mail: lotterbe@bidmc.harvard.edu

Dr. James R. Rodrigue
Patient-Oriented Research in Transplant Disparities and Outcomes

We are conducting patient-oriented research (POR) focused on understanding and reducing disparities in transplantation access, selection, outcomes, and survivorship. Racial and economic disparities exist at all points along the transplant continuum of care. In our NIH-funded studies, we are developing and evaluating innovative interventions to overcome existing barriers to effective and efficient transplant care with the goal of reducing known disparities. This research program is best characterized as T3 translational research, in which we are advancing knowledge about how interventions work in real-world settings. Also, we are leading a multi-site effort to prospectively characterize the short- and long-term surgical, medical, functional, psychological, and financial outcomes of living kidney donation, with an eye toward assessing disparity in these outcomes.

Contact:
James R. Rodrigue, PhD
e-mail: jrrodrig@bidmc.harvard.edu

Dr. Marc Schermerhorn
Vascular Surgery Outcomes Research

Surgical Residents interested in our program will spend 2 years using data from BIDMC, the National Surgical Quality Improvement Program, the Nationwide Inpatient Sample, and Medicare to evaluate outcomes with open surgical and endovascular procedures. The research fellowship begins with enrollment in biostatistics and epidemiology courses at the Harvard School of Public Health with the potential for obtaining a masters in public health. The research fellow should expect to submit first authored abstracts and manuscripts and perform oral presentations at the regional NESVS meeting as well as multiple national vascular meetings including SVS.

Contact:
Marc Schermerhorn, MD
e-mail: mscherme@bidmc.harvard.edu

Dr. M. Todd Valerius
Kidney Development and Repair

Our group is interested in the underlying molecular mechanisms of nephron formation, and repair of the proximal tubule after ischemic injury, and how they may be involved in disease, transplant success, and potentially used in therapeutic settings. We use basic molecular biology in creating relevant transgenic and mutant mouse strains to study gene function, the kidney ischemia/reperfusion injury model in mouse, and in situ hybridization analysis to determine gene expression in embryonic mouse tissues. All these techniques would be learned in carrying out a project in the lab.

Contact:
M. Todd Valerius, Ph.D.
e-mail: tvaleriu@bidmc.harvard.edu

Dr. Aristidis Veves
Pathophysiology of diabetic wound healing

My laboratory conducts 'bench to bedside' research of in the field of diabetes and its complications, mainly cardiovascular disease and wound healing. The basic research includes animal models of wound healing, such as mice and rats and rabbits. The translational part includes studies in peripheral arterial disease and wound healing in diabetic patients and the role of obstructive sleep apnea in increasing cardiovascular risk in diabetes. We have established collaborations with other PIs in the departments of Medicine, Neurology and Radiology and outside institutions such as Brigham and Women's Hospital and the McLean hospital. This allows us to offer the possible candidates for exposure to both basic and translational research.

Contact:
Aristidis Veves, MD, DSc,
e-mail: aveves@bidmc.harvard.edu

External Funding Sources

American College of Surgeons (ACS) Resident Research Scholarships

Website: http://www.facs.org

Summary:

- Fellowships are for 2 years and require a 2 year commitment.
- $30,000/year is available and cannot be used to supplement other awards.
- Applicant must be Resident Member of the College and have completed 2 postdoctoral years in an accredited surgical training program.

Application Deadline: September 1st

Start Date: July 1st

American College of Surgeons Resident Research Scholarships:
These scholarships are supported by the generosity of Fellows, Chapters, and friends of the College, to encourage residents to pursue careers in academic surgery.

General Policies:
General policies covering the granting of the American College of Surgeons Resident Research Scholarships are**:**

- The applicant must be a Resident member of the College who has completed two postdoctoral years in an accredited surgical training program in the United States or Canada at the time the scholarship is awarded, and shall not complete formal residency training before June 2010. Scholarships do not support research after completion of the chief residency year.
- The scholarship is awarded for two years, and acceptance of it requires commitment for the two-year period. The award is to support a research plan for the two years of the scholarship. Priority will be given to the projects of residents involved in full-time laboratory investigation. Study outside the United States or Canada is permissible. Renewal of the scholarship for the second year is required and is contingent upon the acceptance of a progress report and research study protocol for the second year, as submitted to the Scholarships Section of the College.
- Application for these scholarships may be submitted even if comparable application to other organizations has been made. If the recipient accepts a scholarship/fellowship from another agency or organization, the ACS Resident Research Scholarship will be withdrawn. It is the responsibility of the applicant to notify the Scholarships Section of the College of competing awards.
- The scholarship is $30,000 per year; the total amount is to support the research of the recipient and is not to diminish or replace the usual or expected compensation or benefits of the recipient. Indirect costs are not paid to the recipient or to the recipient's institution.
- The scholar is expected to attend the Clinical Congress of the American College of Surgeons to present a report on the research as part of the Surgical Forum, and to receive a certificate at the Annual Business Meeting of Members.
- Approval of the application is required from the administration (dean or fiscal officer) of

the institution. Supporting letters from the head of the department of surgery (or the surgical specialty) and from the mentor who will be supervising the applicant's research should be submitted. Only in exceptional circumstances will more than one scholarship be granted in a single year to applicants from the same institution.

Application Information:

Application Form: http://www.facs.org/memberservices/acsresident.html

Hardcopy: SCHOLARSHIPS SECTION American College of Surgeons 633 N. Saint Clair St. Chicago, IL 60611-3211

Surgical Infection Society (SIS)

Website: http://www.sisna.org

Summary:

- Fellowships are for 1-2 years.
- $50,000/year is available and can be supplemented with no more than $25,000 in extramural funding.
- Applications must be sponsored by an SIS member.

Application Deadline: January 15th

Start Date: July 1st

Surgical Infection Society Awards:

The SIS Resident Fellowship Award is intended for Residents or fellows who have completed at least two years of post-graduate training in a surgical discipline are eligible to apply for the SIS Resident Fellowship Award. The purpose of this award is to provide the opportunity for a resident or fellow to spend one year in full-time research in the laboratory of a member of the Surgical Infection Society. The amount of this award is $50,000/year.

The SIS/Wyeth Evaluative Research Fellowship Award supports only projects dealing with the broad area of evaluative research in surgical infection. Residents or fellows who have completed at least two years of post-graduate training in a surgical discipline are eligible to apply for the SIS/Pfizer Evaluative Research Fellowship Award. (Please note that this fellowship will only be awarded as funds are available.)

Research proposals should pertain to the broad area of evaluative research in surgical infection. Typical topics might include:

1. Clinical epidemiology (factors affecting the incidence of surgical infections, morbidity of surgical infections, epidemiology of surgical infections)

2. Health services research (surgical infection costs, need for hospitalization, measuring improvements in clinical care of surgical infections)

3. Decision analysis (need for antimicrobial intervention, results of surgical infection interventions)

Concomitant enrollment in a formal graduate-level training program in evaluative, epidemiology, and/or outcome research is strongly encouraged.

The sponsor must be an SIS member at the time of the application. The support will be given as a gift to the institution accepting responsibility for the research environment of the awardees. These awards must be expended solely for the purpose of the sponsored research. The award shall be used only for salary support or direct cost expenditures of the funded research project conducted in the laboratory of the SIS member, who serves as the sponsor/mentor. No part of the award may be used for indirect costs. Funding will begin July 1, 2011. Resident Fellowship awardees should not have any regularly assigned clinical duties during the Fellowship period. Surgical Infection Society Fellowship Awards are intended to be the primary source of extramural support for the applicant's research project. Thus, the total amount of other extramural grants-in-aid supporting the Fellow's research cannot exceed $25,000 (US). If there are any questions regarding these restrictions, the applicant or their sponsor should call or email Craig M. Coopersmith, MD, Chair of the SIS Fellowship Committee at:

Craig Coopersmith, MD, FACS, FCCM
101 Woodruff Circle
Suite WMB 5105
Atlanta, GA 30322

Please note that no surgical residency training program may have more than one active SIS Fellowship award in any given academic year. Renewal for second year of funding is competitive and is limited to 2 years total. Successful SIS sponsors/mentors must skip one funding period prior to sponsoring/mentoring another application. The only exception allowed will be consideration of competitive applications for the second-year renewal of an existing fellowship.

For All Fellowship Award Applicants
Decisions concerning the award will be announced at the annual meeting of the Surgical Infection Society in Las Vegas, Nevada (April 17-20, 2010). The SIS Fellowship Committee will review the applications and forward recommendations to the Council of the Surgical Infection Society who will make the final decision regarding the awards.

Letters of support from the endorsers, research sponsor, and department Chairperson must be included with the application. These letters should describe the facilities available for the applicant, sources of salary support, and a guarantee of protected time. The letters should summarize the significance of this project and the applicant's qualifications. The letter from the departmental Chairperson must indicate that no Fellowship funds will be used for overhead and that all monies provided are specifically for the Awardee's salary and direct research costs. Absence of this letter will exclude consideration of the application

Note to Applicants
Whereas the SIS/Wyeth-Ayerst Evaluative Research Award is meant to emphasize outcomes studies, *all SIS Fellowship applications still compete for funding on the basis of merit*. Thus the Evaluative Research Award will give funding priority to one successful evaluative proposal per year. It does not guarantee that one evaluative application will be successful in every funding cycle.

Application Information:
Application Form: http://sisna.org/fellowship.cgi

Society of University Surgeons (SUS)

Website: http://www.susweb.org

Summary:

- Fellowships are for 1-2 years.
- $30,000 per year is available
- Applications must be sponsored by an SUS member.
- Applications must be sent electronically.

Application Deadline: August 11, 2010

Start Date: July 1st

The Ethicon-Society of University Surgical Research Scholarship Awards:

Eligibility
This fellowship is intended for surgical residents in any of the surgical disciplines who have completed two years of training and agree to spend one or two years in full-time research in the laboratory of an SUS member. Co-mentoring by a non-SUS member is acceptable providing there is clear documentation of a collaborative relationship between the SUS research mentor and the non-SUS research mentor. The awards will be for either one or two years. Officers and members of the Scholarship Committee are excluded from mentoring Fellows, but are allowed to be sponsors.

Stipend
The award of $ 30,000 per year can be used for either salary or expense support, but must be expended solely for the sponsored research project.

Committee Review
The deadline for submission of applications is August 11, 2010**.** Applications will be reviewed by the Scholarship Committee. The 6 top-ranking applicants for the awards will be notified to appear for interviews. Interviews will take place during the fall American College of Surgeons meeting. The successful applicants and the SUS research mentors will be notified by email following the American College meeting.

Awardee Presentations
Two-year Ethicon-SUS Fellows are required to give progress reports on their research to the February Executive Council during the first 2 years of their award and to present the results to the membership following the final year. If the award is for one year, the Ethicon-SUS Fellow will present to the executive February Council meeting during the first year, and present to the membership at the next annual meeting.

Application Information:
Application Form: http://www.susweb.org/mc/page.do?sitePageId=93041&orgId=sous

The Thoracic Surgery Foundation for Research and Education (TSFRE)

Website: http://www.tsfre.org

Summary:

- Fellowships are for 1-2 years.
- Up to $30,000/year is available.
- For Surgical residents who have not yet completed cardiothoracic surgical training..
- All applications must be made online.

Application Deadline: October 17th , 2010

Start Date: July 1st

Purpose of the Foundation:
The Thoracic Surgery Foundation for Research and Education has been established by the thoracic surgeons of today to enhance the education and capabilities of the thoracic surgeons of tomorrow.

The purpose of The Thoracic Surgery Foundation is to increase the knowledge base of cardiothoracic surgery and to enhance the knowledge of all thoracic surgeons so that ultimately patients may be better served. The Foundation is committed to increasing resources by enlisting the participation of all thoracic surgeons and others who support its purpose. The Foundation is also committed to developing future leaders and standard bearers of our discipline. To this end, the Board of Directors believes that all available income from donations should be put to use immediately so that awards may increase as donations increase.

Research Fellowships and Awards:
These awards are designed to provide salary and/or direct experimental support for surgeons and surgical trainees who wish to acquire investigational skills. Although a specific research program is required as the major component of the application, emphasis in making the award is placed on the potential of the applicant, based on prior accomplishments, and the quality of the educational experience for the applicant. Particular emphasis is placed on evidence of supervisory interaction in preparation of the application, the extent to which research training and a productive educational experience is convincingly described, and the training environment. Additional criteria include the probability of successful project completion and an assessment of the importance of the particular educational effort toward the advancement of thoracic surgery.

Thorasic Surgery Foundation Research Fellowship:
Research Fellowships provide support of up to $30,000 per year for up to 2 years. Requests for support for a single laboratory year are discouraged unless this represents the second of two consecutive research years. If two years of funding are requested and awarded, a progress report approved by the chairperson of the Research Committee is required prior to release of payment for the second year.

Eligibility
Any general surgical trainee who intends to pursue a career in investigative thoracic surgery; thoracic surgical trainees whose program director indicates that the applicant will be allowed not less than 80% protected time for research; or thoracic surgeons who have completed their training but wish to acquire an investigative education with a specified mentor are eligible.

Narrative

1. Personal Goals (five sentences or less)

State your personal career goals. Identify exactly what you wish to accomplish in the course of the proposed work. Logical future studies may be indicated, as well as the potential impact of this work on the field.

2. Background (500 words)

A highly focused presentation of the background and rationale for the project, a critical presentation of the most important work of others in the field and the results of any preliminary work by the investigators. This page should reflect the applicant's knowledge and critical analysis of the area of interest and provide a rationale and foundation for the proposed project.

3. Experimental Design (750 words)

State the hypothesis that you will test and the methods that you will use. Indicate the design of the study and outline in logical sequence how you plan to proceed. Indicate the source of biological material that you will study and the statistical methods you will use in analyzing your data. Excessive methodologic detail is unnecessary, unless you are developing or applying new and unique techniques.

4. The Educational Environment (not to exceed 750 words)

Organized contributions of a senior investigator and mentor to the development of the trainee must be clearly identified. A very specific learning program for the trainee must be identified, and the manner in which the proposed work will interact with the training program should be well delineated.

5. Financial Support for the Project

State the sources of financial support for the project that you will pursue and for the laboratory in which you will work. Identify the director of the laboratory and sources of support for the project (e.g. National Institutes of Health, Department of Surgery, etc.). Identify the principal investigator, title, grant number, dates of the grant award and direct costs for the period of your fellowship. Include a letter from the principal investigator (of the grant supporting your project) or department chairman indicating that resources necessary for the project will be provided.

6. List any other research applications pending or approved and whether any overlap exists with the TSFRE request. The intent of TSFRE is to enable this applicant by the award, but not to provide redundant funding for a funded project.

7. Sponsor of the Applicant.

Name, Title, Address, Telephone, Email address, and Fax number of **applicant's sponsor** (normally the applicant's department or division chief as opposed to scientific mentor). If thoracic surgery is a full department (chief reports to the Dean or Chief of Medical Staff), list that individual. If thoracic surgery is organized as a division within a department, list the division chief if he/she has the authority to commit institutional resources needed for the project; otherwise list the department chair. **The person listed in this box assumes responsibility for providing space, time, and customary institutional resources needed to carry out the project**.

Application Information:

Application Form: http://www.tsfre.org/Awards/Fellowships.html

American Society of Transplant Surgeons (ASTS)

Website: **http://www.asts.org**

Summary:

- Fellowships are for 1-2 years.
- 3 Fellowships are available
- Stipend awarded to a total of $40,000-$42,500/year.

Application Deadline: January 12th

Start Date: July 1st

Research Fellowships and Awards

The purpose of fellowships and awards from the ASTS is to support basic and clinical research in the field of transplantation and transplant immunobiology in the laboratory / clinical service of an ASTS member. Eligibility for specific awards is defined by period of training or career status, and with some awards by age, academic degree, membership in the Society (or sponsorship by a member), and other criteria. Seldom will a single person meet criteria for more than one award, and so in no case should the same scientific proposal be submitted for more than one award.

http://www.asts.org/Awards/AnnualAwardsEligibility.aspx

Genentech Laboratories Scientist Scholarships

ASTS and Roche Laboratories continue their commitment toward supporting full-time basic and translational research in the field of transplantation and transplant immunobiology in the laboratory of an ASTS Member. The support is $40,000 per year for 2 years. The award can be used for direct research expenses and/or educational enrichment of the awardee.

Eligibility:

- Resident in an ACGME program, or
- Completed an advanced professional degree (i.e. PhD, DVM), or foreign equivalent, in discipline germane to transplantation.
- Completed at least 2 years of clinical training or 1 year of post doctoral research in transplantation or transplant immunobiology.
- Awardee may not concurrently receive any other financial support for the proposed research from ASTS, AST, ACS, SUS or other society granting similar support.
- Applicant must reside in North America
- Proposed work is in the laboratory of an ASTS Member.

The Awardee must attend the ASTS Awards Ceremony at ATC to formally accept the award. An abstract must be submitted for presentation at an ATC or ASTS Winter Symposium during the award period or within 6 months of award completion. A mid-report to the ASTS National Office must be submitted in the spring of the first year.

Application Information:

Application Form: http://asts.org/Awards/RocheSci.aspx

NKF Folkert Belzer, MD Research Fellowship Award

ASTS and the NKF support full-time clinical research in the field of transplantation or transplant immunobiology under the mentorship of an ASTS Member. It is geared toward a resident in training who wishes to pursue a career in transplantation. The support is $40,000 per year for 2 years. The

award can be used for salary or stipend support only.

Eligibility

- Resident in an ACGME surgical residency program.
- Completed at least 2 years of clinical training.
- Awardee may not concurrently receive any other financial support for the proposed research from ASTS, AST, ACS, SUS or other society granting similar support.
- Applicant must reside in North America
- Proposed work is under the mentorship of an ASTS Member

The Awardee must attend the ASTS Awards Ceremony at to formally accept the award. An abstract must be submitted for presentation at an ATC or ASTS Winter Symposium during the award period or within 6 months of award completion. A mid-report to the ASTS National Office must be submitted in the spring of the first year.

Application Information:
Application Form: http://asts.org/Awards/ASTSNKF.aspx

Novartis Fellowship in Transplantation

ASTS and Novartis Pharmaceuticals continue their commitment to providing qualified surgeons with additional clinical training in the field of solid organ transplantation. It is intended to support training with a comprehensive experience in the clinical aspects of transplant surgery, as well as involvement in related clinical, translational and/or laboratory research. The support is $42,500 per year for 2 years. The award can be used for salary and benefits as well as direct research expenses.

Eligibility

- Current clinical trainee in transplant surgery, or accepted as a trainee, in an ASTS approved transplant fellowship.
- Completed surgical residency and demonstrated a career commitment to the area of transplant surgery.
- Research and clinical experience must be sponsored by an ASTS Member.
- Applicant must reside in North America.
- Awardee may not concurrently receive any other financial support for the proposed research from ASTS, AST, ACS, SUS or other society granting similar support.

The Awardee must attend the ASTS Awards Ceremony at ATC to formally accept the award. An abstract must be submitted for presentation at an ATC or ASTS Winter Symposium during the award period or within 6 months of award completion. A mid-report to the ASTS National Office must be submitted in the spring of the first year.

Application Information:
Application Form: http://asts.org/Awards/NovFell.aspx

American Society of Transplantation (AST)

Website:
http://www.a-s-t.org/index2.cfm?Section=research_funding&Sub1Section=ast_grants

Summary:

- Fellowships are for 1-2 years.
- 2 Categories of Fellowships are offered - Basic and Clinical Science
- Stipends awarded to a total of $40,000/year.

Application Deadline: November 12th , 2010

Start Date: July 1st

Overview

The American Society of Transplantation (AST) was founded in 1982 and is an organization of more then 2,200 transplant professionals dedicated to research, education, advocacy and patient care in transplantation. Our goal is to offer a forum for the exchange of knowledge, scientific information and expertise in the field of transplantation. The goals of the AST Fellowship Grants are:

- To foster training of new young investigators with the potential of making contributions to the understanding of transplant science/immunobiology and/or treatment of transplant recipients.
- To foster research that is of high merit.
- To encourage high quality applicants who want to develop a career in academic transplantation.

The AST Basic Science Fellowship Grants are intended to support work in transplantation biology ranging broadly from pertinent basic immunology to animal studies. All types of organ, tissue, and cell transplants will be considered. The project should provide a strong training vehicle for the applicant, in keeping with the overall mission of the AST Fellowship Grants.

Research Focus

The AST supports a wide range of basic and clinical research topics. Research topics that involve under-represented areas including minorities, women, and pediatrics are strongly encouraged. The AST also encourages applications from women and minority researchers. Under-represented minority investigators are defined as individuals belonging to a particular ethnic or racial group as determined by the NIH. Established AST members are encouraged to bring this funding opportunity to the attention of new faculty members performing transplantation research at their institutions and to support their applications.

General Eligibility Criteria

- The applicant must be sponsored by an active member of the AST. If the sponsor is not a member, he/she must submit a completed membership application by the submission deadline (with expectation that membership will be active before the grant review occurs). Membership dues must be paid to date by January 1, 2011; otherwise, the application will not be considered for funding.

- The work must be performed at a North American site under the mentorship of an AST member.
- The applicant must have an MD, DO, PhD, DMV or equivalent graduate degree at the time of the application.
- AST Fellowship Grants are meant for individuals who have spent two years or less (at the time of the application) performing research in the area of transplantation science since obtaining their last post-doctoral degree (PhD, MD or equivalent degree). Applicants who have worked in other fields or taken leaves of absence are eligible beyond this two-year period, but this must be directly addressed in the sponsor's letter.
- The applicant must be either: a) a US, Canadian or Mexican citizen; b) a lawfully admitted permanent resident foreign national of the US, Canada, or Mexico with a valid visa during the training period; or c) a foreign national admitted lawfully for residence in the US, Canada, or Mexico during the training period. Funding will not be released until Visa status is confirmed.
- Throughout the period of the grant, the applicant must be at a "fellowship training" level, may not hold an independent faculty level position or a salaried senior staff position (or equivalent). The AST defines an independent faculty level position as: a) Assistant Professor or equivalent; or b) Regardless of title, institutional support that includes independent lab space and/or start-up funds to allow independent research. The applicant does not need to have actually started their fellowship at the time of application.
- The Fellowship Grant is intended to support or supplement salary during the period of research training. Residual funds can be used for supplies. Funds cannot be used for indirect costs or institutional overhead. Fellows who have other individual fellowships or grants awarded in their name that support their salary, are not eligible.
- The sponsor must guarantee 75% protected time adequate for project completion.

Application Process

AST Fellowship Grant applications are submitted into one of two (2) primary categories:

- AST Clinical Science Fellowship Grant
- AST Basic Science Fellowship Grant

All applications will be stored in a secure, password-protected environment. At any time in the application process, the applicant will be able to save the application and return to the site to complete it at a later date, prior to the deadline. Applicants must complete the application process online. The various components of the application listed under application requirements below, should be generated as individual document files that will be uploaded and compiled into a single pdf during the application process. When the application is complete, the applicant will receive a confirmation notice via email with an application number. Applicants are advised to print and keep the confirmation notice as proof of the application submission.

Application Requirements

Use font Arial/Helvetica, size 11 pt., no less than 0.5 inch margins. Applications which do not conform to these guidelines will be returned without review.

1. **Title:** must be entered into the appropriate space on the contact information page.

2. **Abstract of the proposed research plan:** This document should concisely summarize the project in 400 words or less. The abstract should introduce the project and note its relevance to transplantation. It should describe the long-term objectives and specific aims, research design and methods for achieving these goals.

3. **NIH-type Biosketch:** Required for both the applicant and his/her sponsor (two documents). Each Biosketch may not exceed four (4) pages and must include:

    - Applicant's/sponsor's name
    - Position Title
    - Education/Training (beginning with baccalaureate or other initial profession education, such as nursing, and include post-doctoral training), including institution and location, degree, year(s) of completion, field(s) of study
    - Positions and Honors (list in chronological order previous positions, concluding with your present position; list any honors; include present membership on any Federal Government public advisory committee)
    - Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.
    - Research Support: list all research projects ongoing or completed during the last three years, supported by federal and non-federal funds. Briefly indicate the overall goals of the projects and your role, e.g., PI, Co-Investigator, Consultant, in the research project, total amount of grant and amount of funding for the year the AST grant may be awarded. The fellow applicant should explain any specific or budgetary overlap with the AST application and in the case of pending applications, how overlaps will be resolved in the event the funding is received from more than one agency. (The final resolution of any funding conflicts will be decided by the AST.)

4. **Statement of career goals (no more than one page):** explaining the applicant's short- and long-term career goals and how the grant will enhance these plans. The career statement should also include alternative means of support and activities that may be available should the applicant be unsuccessful in receiving the grant.

5. **Complete proposed research plan:** This document cannot exceed six pages; references are not included in the page limit. It should summarize the proposed research project as well as any simultaneous training that will be obtained during the period of grant support. The Aims should include the key questions posed or hypotheses to be tested, followed by a brief Introduction providing the rationale for the research, Preliminary Results supporting the research plan, and a Research Plan explaining how the questions or hypothesis will be studied with emphasis on experimental design over the details of the specific methods to be used. Anticipated results, caveats and alternative approaches should be briefly discussed. Specific research (and, if applicable, training) goals to be reached at the end of the grant should also be provided. The applicant and the sponsor may jointly write this portion of the application. However, the application should clearly indicate the sponsor's role in its preparation.

6. **Narrative from the sponsor:** should not exceed three (3) pages and should include: a) An explanation of any mitigating or additional factors that need to be considered in terms of eligibility (e.g., account of extra years in education or a change in research field). b) A description of the training program in addition to lab research (e.g., courses, conferences, outside interactions, etc.). c) Training record of sponsor. d) Role of the applicant in the project. e) A statement of the role of the applicant vs. sponsor in writing the application. A

significant role for the applicant in writing the application is highly encouraged, although input from the sponsor is expected. For international applicants not yet in the lab, it is understood that the PI will play a large role in writing the application. f) A description of the sponsor's background in supervising the research and training of students and postdoctoral fellows. g) An evaluation by the sponsor of the applicant's past experience and performance, future potential, and the degree of previous interaction with the sponsor. h) A concise description, written by the sponsor, of the overall research plan, including both the proposed research plan and other formal and informal training planned for the applicant. i) The sponsor must specifically address whether he/she is a PI or sponsor on any other AST Grants. Only one AST Grant (including Faculty Development Grant, Branch Out Grant, or as a sponsor of a Fellowship Grant) will be awarded per mentor/sponsor, or PI, per year. If more than one grant from a given faculty member (as PI or mentor) is submitted and deemed competitive for funding, the AST will determine which grant to fund. j) Finally, the sponsor must guarantee that 75% of the fellow's time will be protected to conduct his/her research.

7. **Two (2) letters of recommendation:** from two individuals, other than sponsor, who are familiar with the applicant's potential as a research investigator. Electronic copies with original signatures on institutional letterhead must be uploaded to the website as part of the application. In addition, originals must be mailed to the AST National Office and postmarked by the submission deadline.

Letters of recommendation with original signatures must be included in the electronic file as part of the uploaded application. Original letters of recommendation must also be mailed to the AST National Office, postmarked by the submission deadline and have an original signature on institutional letterhead.

Mail original letters of recommendation to:

Dr. Robert Gaston
Chair, AST Awards and Grants Committee
AST National Office
15000 Commerce Parkway, Suite C
Mount Laurel, NJ 08054, USA

Review Process

The review criteria include the quality of the applicant, scientific project, sponsor and institution, with an emphasis towards preparing the applicant for a career as an independent investigator.

All complete applications received by the submission deadline will be reviewed and scored by the AST Awards and Grant Committee comprised of a broad panel of researchers from a number of institutions who have widespread expertise in clinical and basic science in all specialties of solid organ transplantation. The Committee will place primary emphasis in evaluating applications based on scientific strength of the applicant and preparation of the applicant for the proposed research.

The AST aims to award at least one Basic Science Fellowship application. The remaining available grants will be awarded to Basic and/or Clinical Science applications, according to their score.

All applicants will be notified of the application status in March 2011. Grant recipients will be recognized at the AST Grants Ceremony during the 2011 American Transplant Congress, April 30 – May 4, 2011 in Philadelphia, PA.

Funding Guidelines

1. The AST Fellowship Grants are $40,000/year, two-year grants, paid in quarterly installments to the institution of the successful applicant.

2. The funding for any grant is contingent upon having qualified applicants apply.

3. The funding for any grant and the total number of AST Fellowship or Faculty grants awarded by the AST is dependent on budgetary constraints in a given year.

4. In order to support as many excellent laboratories as possible, only one AST Grant (including Faculty Development Grants or as a sponsor of a Fellowship Grant) will be awarded per mentor/sponsor, or PI, per year. If more than one grant from a given faculty member is submitted and deemed competitive, the AST will determine which grant to fund.

5. Two grants from the same group or from the same institution with significant scientific overlap will not be funded regardless of score. The discretion as to which grant will be funded will be made by the AST Awards and Grants Committee at the time of review.

6. AST Fellowship Grants are intended to support or supplement salary, but residual funds can be used for supplies. Funds cannot be used for indirect costs or institutional overhead.

7. Funding will not be released until visa status is confirmed.

8. Grant funding is not transferable from one recipient to another. If the grantee relocates, the AST will determine if the grant can be transferred.

9. Research must begin on July 1, 2011. Individuals accepting an AST Fellowship Grant are expected not to accept other fellowship grants to support their salary. Sources of additional salary must be disclosed.

10. The AST must be acknowledged as a funding source in all manuscripts and presentations derived from the funded research by using the following statement: "This work was supported by a research grant from the American Society of Transplantation." Copies of these publications must be submitted to the AST National Office.

11. Funding of the second year of the grant will be contingent upon submission of a brief progress report by the applicant, and a letter from the sponsor indicating continued support of the recipient's activities. All of these materials will be requested from the applicant approximately three months prior to the beginning of the second year of funding, and second year funds will not be released until this information has been received and reviewed.

12. If the grantee accepts a faculty position during the term of the grant, he/she must notify the AST and relinquish funds.

13. A final report of the results of the funded research must be submitted to the AST National Office.

Application Information:

Application Form:
http://www.a-s-t.org/index2.cfm?Section=research_funding&Sub1Section=ast_grants

American Heart Association (AHA)

Website: http://www.heart.org/HEARTORG/

Summary

- Fellowships are for 2 years with the option to reapply for a 3rd year.
- Maximum annual award amount is $38,000

Application Deadline: January 28th

Start Date: July 1st

Overview:

Diseases of the heart are the No. 1 killer in America, and stroke is the No. 3 killer. The American Heart Association strongly believes that learning more about these diseases is the best way to reduce disability and death. That's why research is an association-wide priority. Since 1949 the American Heart Association has spent more than $2.5 billion on research to increase knowledge about cardiovascular disease and stroke. We've increased our effort substantially over the past 56 years. The association has carved an important niche in supporting the development of beginning investigators and offering innovative funding mechanisms to stimulate research in promising areas of cardiovascular science.

Founders Affiliate Postdoctoral Fellowship Program

Objective

To help trainees initiate careers in cardiovascular and stroke research while obtaining significant research results under the supervision of a sponsor or mentor; supports individuals before they're ready for some stage of independent research.

Science Focus

Research broadly related to cardiovascular function and disease and stroke, or to related clinical, basic science, bioengineering or biotechnology, and public health problems, including multidisciplinary efforts.

Disciplines

Proposals are encouraged from all disciplines as well as epidemiological, behavioral, community and clinical investigations that bear on cardiovascular and stroke problems.

Target Audience

- At the time of award activation, must have a post-baccalaureate doctoral degree, including M.D., Ph.D., D.O., D.V.M., Pharm.D. or equivalent.
- At the time of award activation, the applicant may not have more than five years postdoctoral research training or experience. Time spent in clinical training is excluded.

Sponsor

It's important for the new fellow to receive wise counsel and direction from an established investigator interested in the conduct and progress of the research project during the research training period. Each fellow must have a sponsor.

A fellow must have substantial involvement in preparing the application, understanding that the sponsor will play a significant part in guiding the applicant.

Citizenship
At the time of application, must have one of the following designations:

- U.S. citizen
- Permanent resident
- Pending permanent resident. Applicants must have applied for permanent residency and have filed form I-485 with the U.S. Citizenship and Immigration Services and have received authorization to legally remain in the United States (having filed an Application for Employment Form I-765).
- E-3 - specialty occupation worker
- F1 - student visa
- H1-B Visa - temporary worker in a specialty occupation
- J-1 Visa - exchange visitor
- O-1 Visa - temporary worker with extraordinary abilities in the sciences
- TN Visa - NAFTA Professional

Exception: Postdoctoral fellowship applicants outside the United States at the time of application must provide visa documentation prior to award activation.
Awardee must meet American Heart Association citizenship criteria throughout the duration of the award.

Location of Work
The award may be completed at any accredited institution in Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island or Vermont.

American Heart Association research awards are limited to non-profit institutions, including medical, osteopathic and dental schools, veterinary schools, schools of public health, pharmacy schools, nursing schools, universities and colleges, public and voluntary hospitals and other non-profit institutions that can demonstrate the ability to conduct the proposed research.
Applications will not be accepted for work with funding to be administered through any federal institution or work to be performed by a federal employee, except for Veterans Administration employees.

Funding is prohibited for awards at non-U.S. institutions.

Budget/Annual Award Amount
Trainee Stipend/Salary:
Commensurate with years of postdoctoral research and clinical experience at time of award activation:
0 = $38,000
1 = $40,000
2 = $43,000
3 = $44,000
4 = $46,000
5 = $48,000
6 = $50,000

7 or more = $52,000

Fringe Benefit: $1,000 for health insurance

Project Support: $3,000 for travel (must be taken from the stipend)

Total Annual Award Amount: $39,000 - $53,000
The award does not allow indirect costs, dependent allowance or tuition.

Award Duration: two years

Peer Review Criteria
To judge the merit of the application, reviewers will comment on following criteria. Please be sure to address these in your proposal. Each criterion will account for a third of the overall score.

Criterion 1 - Evaluation of the Investigator

1. Does the trainee have potential for a research career?
2. Are the trainee's career plans specified in the application?
3. Is this supported by the trainee's academic record and the assessment provided by the three letters of reference?
4. Does the trainee have prior research experience and/or publications?
5. Is there a clear rationale supporting the need for the proposed training?
6. What is the sponsor's assessment of the applicant?

Criterion 2 - Sponsor/Training Plan and Environment
Sponsor/Training Plan

1. Is the mentor an independent investigator?
2. Does the mentor have the experience to direct the proposed research training, as evidenced by a track record regarding productivity, funding and prior trainees?
3. Does the mentor have adequate current funding to support the fellow's project?
4. Does the mentor provide a comprehensive training plan that will facilitate the applicant's progress towards his/her research career goals?

Environment

1. Does the scientific environment in which the work will be done contribute to the probability of success for the training experience?
2. Is there evidence of institutional commitment?

Criterion 3 - Evaluation of the Proposal

1. **Significance**: Does this study address an important problem broadly related to cardiovascular disease or stroke? What will be the effect of these studies on the concepts, methods and technologies that drive this field?
2. **Approach**: A new fellow may not have had adequate time to generate preliminary data. Applicants can present preliminary data generated by the sponsor. The assessment of preliminary data, whether generated by the sponsor or the applicant, should be put into

perspective so that bold new ideas and risk taking by beginning investigators are encouraged rather than stymied.
Are the conceptual framework, design, methods and analyses adequately developed, well integrated, well reasoned, feasible (as determined by preliminary data or the expertise available in the mentor's and/or collaborator's laboratories) and appropriate to the aims of the project? Does the applicant acknowledge potential problem areas and consider alternative tactics?

3. **Innovation**: Is the project original?

Applicants should never contact reviewers regarding their applications. Discussing scientific content of an application or attempting to influence review outcome will constitute a conflict of interest in the review. Reviewers must notify the AHA if an applicant contacts them.

Restrictions

- This award is not for individuals of faculty/staff rank. (Exception: M.D. or M.D./Ph.D. with clinical responsibilities who hold a title of instructor or similar due to their patient care responsibilities, but who devote at least 80 percent effort to research training.)
- Awardee must devote at least 80 percent effort to research or activities related to research.
- Postdoctoral fellowship awardees must resign an award if promoted to a staff or faculty position.
- At the time of award activation, the fellow cannot be pursuing a doctoral degree. Applicants in this situation should be referred to the AHA predoctoral fellowship.
- Awardee may not hold another AHA award concurrently.
- An applicant may submit only one affiliate application per deadline. If eligible, an applicant may simultaneously submit an application to an affiliate and to the national award program. The proposed research plan may need to be adjusted based upon different length of award and dollars available. The deadline dates may be different for each submission. If both are funded, the applicant must choose one award.
- The Founders Affiliate allows a maximum of two years of AHA postdoctoral fellowship support per individual.
- Sponsor may have no more than two AHA-funded fellows (pre-doctoral or postdoctoral) at any time.
- At the time of award activation the applicant may not have more than five years postdoctoral research training or experience. Time spent in clinical training is excluded. There will be NO EXCEPTIONS to this restriction.
- An applicant who is unsuccessful in a competition may resubmit the same or similar application three times (the original plus two resubmissions). The same or similar application submitted for the fourth time will be administratively withdrawn.

Success Rate (July 1, 2010 award activation)
Applications Reviewed: 191
Applications Awarded: 31
Success Rate: 16 percent

Application Information:
Application Form:
https://research.americanheart.org/ris/template.jsp?pid=ris.extlogin&_requestid=11347

American Association for Cancer Research (AACR)

Website: http://www.aacr.org

Summary:
- Fellowships are for 1-3 years.
- $30,000-50,000/year

Application Deadline: December 1st

Start Date: July 1st

AACR Research Fellowships:

AACR Postdoctoral Fellowships are open to Postdoctoral and Clinical Research Fellows who are working at an academic facility, teaching hospital, or research institution.

Fellowships support the salary and benefits of the Fellow, with partial funds (up to 25 percent of the total grant) permitted to be designated to direct research expenses.

Applications must be completed online using the proposalCENTRAL website, with one paper copy submitted to the AACR office. Program guidelines and application instructions are available below and on the proposalCENTRAL website.

Open Applications:

Colorectal Cancer Coalition-AACR Fellowship, in memory of Lisa Dubow
The Colorectal Cancer Coalition-AACR Fellowship, in memory of Lisa Dubow, is a one-year grant of $45,000 to support the salary and benefits of the fellow. A partial amount of funds, up to 25 percent of the total grant, may be designated for direct research expenses. Research projects are restricted to translational or clinical cancer research that has an ultimate goal of developing or improving therapeutic interventions for patients with metastatic colorectal cancer. It is anticipated that one Fellowship will be funded.

Application Deadline: November 17, 2010, at 12:00 noon, Eastern Time

Pancreatic Cancer Action Network-AACR Pathway to Leadership Grant
The Pathway to Leadership Grant is designed to build future leaders in the pancreatic cancer research community by supporting promising early-career scientists in their postdoctoral positions through the transition to positions as independent researchers. Applicant must have started a postdoctoral or clinical research fellowship on or after July 2, 2006 (i.e., must be in the first five years of a fellowship at the start of the grant term) and be associated with a U.S. Institution. The Pathway to Leadership Grant provides up to five years of support, totaling $600,000. It is anticipated that at least one grant will be funded.

Application Deadline: October 27, 2010, at 12:00 noon, Eastern Time

Pancreatic Cancer Action Network-AACR Fellowship

The Fellowship provides a one-year grant of $45,000 to support the salary and benefits of the Fellow while working on a mentored pancreatic cancer research project. A partial amount of funds may be designated for research/laboratory supplies and equipment. It is anticipated that at least one fellowship will be funded.

Application Deadline: October 27, 2010, at 12:00 noon, Eastern Time

Closed Applications:

AACR-The ASCO Cancer Foundation Young Investigator Translational Cancer Research Award
One-year grant of $50,000. One grant will be awarded this cycle. The Award is open to physicians (M.D., D.O., or international equivalent) or physicians holding a combined M.D./Ph.D.

Application Deadline: December 21, 2009, at 12:00 noon, Eastern Time

AACR-AstraZeneca Fellowship for Translational Lung Cancer Research
Two-year grant of $90,000. One Fellowship will be awarded this cycle.

Application Deadline: December 7, 2009, at 12:00 noon, Eastern Time

AACR Basic Cancer Research Fellowships (joint application for the following Fellowships)
AACR Anna D. Barker Fellowship in Basic Cancer Research: One-year grant of $40,000. One Fellowship will be awarded this cycle. AACR-Astellas USA Foundation Fellowships in Basic Cancer Research: One-year grant of $30,000. Two Fellowships will be awarded this cycle.

Application Deadline: December 7, 2009, at 12:00 noon, Eastern Time.

AACR Clinical and Translational Cancer Research Fellowships
AACR-Astellas USA Foundation Fellowship in Clinical/Translational Cancer Research: One-year grant of $30,000. One fellowship will be awarded this cycle.

Application Deadline: December 7, 2009, at 12:00 noon, Eastern Time.

AACR Judah Folkman Fellowship for Angiogenesis Research
Two-year grant of $90,000. One grant will be awarded this cycle. The Award is open to physicians (M.D., D.O., or international equivalent) or physicians holding a combined M.D./Ph.D. and be affiliated with an institution in the U.S.

Application Deadline: August 10, 2010, at 12:00 noon, Eastern Time

AACR-National Brain Tumor Society Fellowship, in memory of Bonnie Brooks
One-year grant of $40,000. Two Fellowships will be awarded this cycle.

Application Deadline: August 10, 2009, at 12:00 noon, Eastern Time

Raymond and Beverly Sackler AACR Fellowships for Ileal Carcinoid Tumor Research
Two-year grant of $100,000. Two grants will be awarded this cycle. The Fellowships are open to postdoctoral and clinical research fellows. Applications are invited from researchers currently in the field as well as from investigators with experience in other areas of cancer research who have promising ideas or research approaches that can be applied to ileal carcinoid tumor research. Proposed research may be basic, translational, clinical, or epidemiological in nature and must have direct application and relevance to ileal carcinoid tumors.

EXTENDED Application Deadline: October 11, 2010, at 12:00 noon, Eastern Time

Inquiries

Hanna Hopfinger, Program Assistant
Telephone: (267) 646-0665
Fax: (215) 440-9372
E-mail: grants@aacr.org

Application Information:
Application Form: https://proposalcentral.altum.com/

American Philosophical Society (APS)

Website: http://www.amphilsoc.org/grants

Summary:
- Fellowships are for 1-2 years
- Awards are $40,000/year

Application Deadline: September 1st

Start Date: July 15th

Since 1933 the American Philosophical Society has awarded research grants to more than 15,000 scholars. In 2008–2009 the Society awarded more than $1.2 million to over 170 scholars, and we expect to continue, if not exceed, this level of support in 2009–2010. We maintain seven grant or fellowship programs in a wide range of fields. Our Franklin, Lewis and Clark, Lewis and Clark Astrobiology, Library Fellowship, and Phillips programs award small grants ($1,000 to $6,000) for modest research purposes. Our Daland and Sabbatical Fellowship programs award much larger amounts ($30,000 to $40,000) in highly selective competitions. Awards are made for non-commercial research only. The Society makes no grants for academic study or classroom presentation, for travel to conferences, for non-scholarly projects, for assistance with translation, or for the preparation of materials for use by students. The Society does not pay overhead or indirect costs to any institution or costs of publication.

Daland Fellowships in Clinical Investigation:

Scope
The American Philosophical Society awards a limited number of Daland Fellowships in Clinical Investigation for research in the several branches of clinical medicine, including internal medicine, neurology, pediatrics, psychiatry, and surgery. The committee emphasizes patient-oriented research.

Eligibility
The fellowships are designed for qualified persons who have held an MD or MD/PhD degree for fewer than eight years. The fellowship is generally intended to be the first post-clinical fellowship; but each case will be decided on its merits. Preference is usually given to candidates who have not more than two years of post-doctoral training and research. Applicants, both U.S. citizens and foreign nationals, must expect to perform their research at an institution in the United States, under the supervision of a scientific advisor. Direct contact with patients is required.

Nomination
Candidates are to be nominated by their department chairman in a letter providing assurance that the nominee will work with the guidance of a scientific advisor of established reputation who has guaranteed adequate space, supplies, etc., for the Fellow. The advisor need not be a member of the department nominating the Fellow, nor need the activities of the Fellow be limited to the nominating department. As a general rule, no more than one fellowship will be awarded to a given institution in the same year of competition.

Award and Duration
Stipends for the fellowship are $40,000 for the first year and $40,000 for the second year. The term of the fellowship is one year, with renewal for one year if satisfactory progress is demonstrated. Requests for renewal are due on the first Friday of January. Payments are made on July 15 and January 15. The Society provides no funds for institutional overhead.

The Society expects that essentially 100% of the Fellow's time will be devoted to research, and the fellowship will constitute salary support. With the cognizance of the committee, teaching or clinical service of a limited amount is permitted, and a small portion of the fellowship may be used for supplies. The committee reserves final decisions until it has a clear understanding of the Fellow's financial support for the project, whether in the form of additional salary granted by the institution at which the Fellow is located or from other fellowships.

Deadline, Notification

Applications for first-year fellowships are due no later than **September 1**. A complete application includes all materials requested on the form, in the correct number of copies, AND the **3** confidential letters supporting the application. It is the applicant's responsibility to verify that all materials reached the Society on time contacting Linda Musumeci, Research Administrator, at LMusumeci@amphilsoc.org or 215-440-3429. A written decision is mailed to candidates in January.

Address

Daland Fellowships in Clinical Investigation
American Philosophical Society
104 South Fifth Street
Philadelphia, PA 19106-3386
Telephone: 215-440-3429

Application Information:

Application Form: http://www.amphilsoc.org/grants/daland

National Institutes of Health (NIH) NRSA Awards

Website: http://grants.nih.gov/training/nrsa.htm

Summary:

- Fellowships are for no more than 3 years.
- Applicant must be a US citizen or a permanent resident status.
- Stipend schedule varies with post graduate years of experience.
- Stipends can be supplemented by the institution.

Application Deadline: April 8th, August 8th, December 8th

Start Date: December 1st, April 1st, July 1st

Funding Opportunity Description

Research Training Objectives

The objective of NIH-supported Ruth L. Kirschstein National Research Service Awards programs is to help ensure that diverse pools of highly trained scientists will be available in adequate numbers and in appropriate research areas to address the Nation's biomedical, behavioral, and clinical research needs.

The purpose of the postdoctoral fellowship (F32) award is to provide support to promising postdoctoral applicants who have the potential to become productive and successful independent research investigators. The proposed postdoctoral training must offer an opportunity to enhance the applicant's understanding of the health-related sciences, and must be within the broad scope of biomedical, behavioral, or clinical research or other specific disciplines relevant to the research mission of the participating NIH Institutes and Centers. Applicants with a health professional doctoral degree may use the proposed postdoctoral training to satisfy a portion of the degree requirements for a master's degree, a research doctoral degree or any other advanced research degree program.

The NRSA legislation requires that the Nation's overall needs for biomedical research personnel be taken into account by giving special consideration to physicians and other health professionals who propose to become active biomedical researchers and who agree to undertake a minimum of 2 years of biomedical, behavioral or clinical research. Individuals from diverse racial and ethnic groups and individuals with disabilities and individuals from disadvantaged backgrounds are always encouraged to apply for NIH support.

Each NIH Institute and Center (IC) has a unique scientific purview and different program goals and initiatives that evolve over time. Prospective Fellowship Applicants are encouraged to contact the relevant NIH staff for IC-specific programmatic information: Table of Institute and Center Contacts can be found at: http://grants.nih.gov/grants/guide/contacts/PA-09-210_contacts.html

Award Information

1. Mechanism of Support

This funding opportunity will use the Ruth L. Kirschstein NRSA individual postdoctoral fellowship award mechanism (F32). As a Fellowship Applicant, the individual together with his/her sponsor and institution, are jointly responsible for planning, directing, and executing the proposed research training program.

2. Funds Available

Although the financial plans of the NIH IC(s) provide support for this program, awards pursuant to this funding opportunity are contingent upon the receipt of a sufficient number of meritorious applications, the program priorities of the participating NIH ICs, and the availability of funds.

2.A. Allowable Costs

Stipends: Kirschstein-NRSA F32 awards provide stipends to postdoctoral fellows as a subsistence allowance to help defray living expenses during the research training experience. The awards are not provided as a condition of employment with either the Federal government or the sponsoring institution. The stipend level for the first year of Ruth L. Kirschstein-NRSA support is determined by the number of full years of relevant postdoctoral experience at the time the award is issued:

The FY 10 schedule for postdoctoral stipends is as follows (years of experience = stipend): 0 = $37,740; 1 = $39, 756; 2 = $42, 624; 3 = $44,304; 4 = $45,9604; 5 = 47,940; 6 = $49,836; 7 or more = $52,068. The awarding NIH IC will adjust awards on the anniversary date of the fellowship award to ensure consistency with the stipend schedule in effect at that time.

Fellows with less than one full year of postdoctoral experience at the time of award will receive initial support at the zero level. Relevant experience may include research (including research in industry), teaching, internship, residency, clinical duties, or other time spent in full-time studies in a health-related field beyond that of the qualifying doctoral degree. The awarding NIH IC will adjust awards on the anniversary date of the fellowship award to ensure consistency with the stipend schedule in effect at that time. No departure from the published Kirschstein-NRSA stipend schedule may be negotiated between the institution and the fellow. The stipend for each subsequent year of Ruth L. Kirschstein-NRSA support is the next level of experience using the stipend schedule in effect at that time.

For fellows sponsored by domestic non-federal institutions, the stipend will be paid through the sponsoring institution. For fellows sponsored by Federal or foreign institutions, the monthly stipend payment will be deposited in the fellow's U.S. bank account or paid directly to the fellow by U. S. Department of Treasury check.

Tuition and Fees: The NIH will contribute to the combined cost of tuition and fees at the rate in place at the time of award. Currently, the NIH will provide an amount per individual fellow equal to 60% of the level requested by the applicant institution, up to $4,500 per year. If the program supports postdoctoral individuals in a formal degree-granting training program, the amount provided per fellow enrolled in a degree-granting program will be up to $16,000 per year. Costs associated with tuition and fees are allowable only if they are required for specific courses in support of the research training experience supported by the fellowship. For additional information, see: NOT-OD-06-093.

Institutional Allowance: Postdoctoral fellows sponsored by nonfederal or nonprofit institutions (domestic or foreign) will receive an institutional allowance of $7,850 per 12-month period to help defray expenses for the individual fellow such as research supplies, equipment, travel to scientific meetings, and health insurance. Self-only health insurance (available to fellows without families) or family health insurance is an allowable cost for fellows at the sponsoring institution only if such self or family health insurance is applied consistently to all persons in a similar training status regardless of the source of support. This allowance is not available until the fellow officially activates the award. If an individual fellow is enrolled or engaged in training for less than 6 months of the award year, only one-half of that year's allowance may be charged to the grant. The Notice of Award will be revised and the balance must be returned to the NIH.

NIH will provide an institutional allowance of up to $6,750 for fellows sponsored by Federal laboratories or for-profit institutions for expenses associated with scientific meeting travel, health insurance, and books. For fellows at for-profit institutions, the $6,750 will be paid to the

institution for disbursement to the fellow. Funds for fellows at Federal laboratories will be disbursed from the awarding IC.

Funds are not available to cover the costs of travel between the fellow's place of residence and a training institution. However, in an individual case of extreme hardship, a one-way travel allowance may be authorized by the sponsoring institution. Such travel must be paid from the institutional allowance.

The Institutional Allowance is adjusted from time-to-time. Prospective applicants are advised to check for the current Institutional Allowance in the most recent documentation related to Ruth L. Kirschstein-NRSA stipends at http://grants.nih.gov/training/nrsa.htm.

Other Training Costs: As part of this award, additional funds may be requested. In all cases, the additional funds requested must be reasonable in relationship to the total dollars awarded under the fellowship and must be directly related to the approved research training experience. Such additional funds shall be provided only in exceptional circumstances that are fully justified and explained by the sponsoring institution in the application.

- **Reasonable accommodations:** Additional funds may be requested by the sponsoring institution to make changes or adjustments in the academic or research environment that will make it possible for an otherwise qualified individual with disabilities to perform the work necessary to meet the requirements of the degree program in which he/she is enrolled. Individuals with disabilities are defined as those with a physical or mental impairment that substantially limits one or more major life activities (see: Americans with Disabilities Act Home Page). The accommodations requested under this program must be directly related to the work required to meet the requirements as regards to both course work and laboratory experience, and must be appropriate to the special needs of the applicant. Some types of accommodations that might be provided under this award include, but are not limited to: specialized equipment, assistive devices, and personnel such as readers, interpreters, or assistants. This award is not meant to relieve the sponsoring institution of its obligation to provide reasonable accommodations as defined by the Americans with Disabilities Act. NIH will not provide funds for infrastructure alterations such as lowering countertops, widening doorways, etc.
- **Off-site research training:** Additional funds may be requested by the sponsoring institution if the research training of a fellow involves extraordinary costs for travel to field sites remote from the sponsoring institution.
- **Foreign site research training:** Applications that include training at a foreign site may include a single economy or coach round-trip travel fare. No allowance is provided for dependents. U.S. flag carriers must be used to the maximum extent possible when commercial air transportation is available for travel between the United States and a foreign country or between foreign countries.

Indirect Costs: These costs, also known as Facilities and Administrative (F&A) costs, are not allowed on individual fellowship awards.

Supplementation of Stipends, Compensation, and Other Income: The sponsoring institution is allowed to provide funds to the fellow in addition to the stipends paid by the NIH in accordance with its own formally established policies governing stipend support. These policies must be consistently applied to all individuals in a similar status, regardless of the source of funds. Such additional amounts may either be in the form of augmented stipends (supplementation) or in the form of compensation, such as salary or tuition remission for services such as teaching or serving as a laboratory assistant, provided the conditions described below are met. Under no circumstances may the conditions of stipend supplementation or the services provided for compensation interfere with, detract from, or

prolong the fellow's approved Ruth L. Kirschstein-NRSA training program. See also: http://grants.nih.gov/grants/policy/nihgps_2003/NIHGPS_Part10.htm#_Toc54600200.

Stipend Supplementation: Supplementation or additional support to offset the cost of living may be provided by the sponsoring institution. Supplementation does not require additional effort from the fellow. DHHS funds may not be used for supplementation under any circumstances. Additionally, no funds from other Federal agencies may be used for supplementation unless specifically authorized by the NIH and the other Federal Agency.

Compensation: The sponsoring institution may provide additional funds to a fellow in the form of compensation (as salary and/or tuition remission) for services such as teaching or serving as a research assistant. A fellow may receive compensation for services as a research assistant or in some other position on a Federal research grant, including a DHHS research grant. However, compensated services should occur on a limited, part-time basis apart from the normal full time research training activities. In addition, compensation may not be paid from a research grant supporting the fellow's research training experience. Compensation for service is not considered stipend supplementation.

Educational Loans or G.I. Bill: An individual may make use of Federal educational loan funds and assistance under the Veterans Readjustment Benefits Act (G.I. Bill). Such funds are not considered supplementation or compensation.

NIH Grants Policy: NIH grants policies as described in the NIH Grants Policy Statement will apply to the applications submitted and awards made in response to this FOA.

Eligibility Information

Eligible Individuals

Any individual with the skills, knowledge, and resources necessary to carry out the proposed research training is invited to work with his/her sponsor and institution to develop an application for support. Individuals from underrepresented racial and ethnic groups, individuals with disabilities are always encouraged to apply for NIH support.

Degree Requirements: Before a Ruth L. Kirschstein-NRSA postdoctoral fellowship award can be activated, the individual must have received a PhD, MD, DO, DC, DDS, DVM, OD, DPM, ScD, EngD, Dr PH, DNSc, ND (Doctor of Naturopathy), PharmD, DSW, PsyD, or equivalent doctoral degree from an accredited domestic or foreign institution. Certification by an authorized official of the degree-granting institution that all degree requirements have been met is also acceptable. A Ruth L. Kirschstein-NRSA fellowship may not be used to support studies leading to the MD, DO, DDS, DVM, or other similar health-professional degrees. Neither may these awards be used to support the clinical years of residency training. However, these awards are appropriate for the research fellowship years of a research-track residency program. Research clinicians must devote full-time to their proposed research training and confine clinical duties to those activities that are part of the research training program.

Additional information including the following, please go to the original website listed.

- Other-Special Eligibility Criteria
- Special Requirements
- Application and Submission Information
- Required Components
- Funding Restrictions
- Concurrent Awards

- Tax Liability
- Fellowship Applicant Information and Research Training Plan
- Review and Selection Process
- Individual Fellowship Review Criteria
- Award Administration Information
- Agency Contacts

Application Information:
Application Form: http://grants.nih.gov/grants/forms.htm

To download a SF424 (R&R) Application Package and SF424 (R&R) Individual Fellowship Application Guide for completing the SF424 (R&R) forms for this FOA, use the "Apply for Grant."

Charles A. King Trust Research Fellowship Program

Website: http://www.hria.org/tmfservices/tmfgrants/king.html

Summary:

- Fellowships are for 2 years.
- $43,500 to $51,000 per year inclusive of a $2,000 expense allowance

Application Deadline: December 15th

Start Date: July 1st

Overview

Established in 1936, the Charles A. King Trust was created to "support and promote the investigation of human disease and the alleviation of human suffering through improved treatment." In keeping with these principles, the Charles A. King Trust Postdoctoral Fellowship Program supports clinical or health services research scientists in the early to mid stages of their research careers and basic scientists in the later stages of their postdoctoral research training. The primary goal of the Program is to prepare postdoctoral fellows for academic careers as successful independent investigators. Bank of America, Edward Dane, and Lucy West serve as Co-Trustees of the Charles A. King Trust.

The Charles A. King Trust Postdoctoral Research Fellowship Program is designed to support postdoctoral scientists in non-profit academic, medical or research institutions in Massachusetts. Each applicant must be working under the supervision of an established scientist who is the designated Mentor. The primary goal of the Program is to prepare postdoctoral fellows for academic careers as successful independent investigators.

Two-year grants ranging from $43,500 to $51,000 per year, inclusive of a $2,000 expense allowance, will be awarded.

Eligibility

By July 1st of each funding cycle, Clinical/Health Services Research: Applicants with clinical responsibilities must have completed residency and be enrolled in a postdoctoral fellowship program. Applicants without clinical responsibilities must have completed at least three years of full-time postdoctoral research experience and no more than five years of postdoctoral experience.

By July 1st, Basic Science: Applicants holding the Ph.D., M.D., D.M.D., M.D./Ph.D. or equivalent degrees must have completed at least three years of full-time postdoctoral research experience and no more than five years of postdoctoral experience.

Application Information:

Application Form:

https://www.GrantRequest.com/SID_738?SA=SNA&FID=35053

Juvenile Diabetes Research Foundation

Website: http://www.jdrf.org/index.cfm?page_id=103207

Summary:

- Fellowships are for up to 3 years.
- Award amounts are based on years of relevant postdoctoral experience, ranging from $42,496 to $52,492.

Application Deadline: July 29th, January 19th

Start Date: March 1st, September 1st

POSTDOCTORAL FELLOWSHIPS

Description
Postdoctoral fellowships are designed to attract qualified, promising scientists entering their professional career in the diabetes research field. The applicant is required to work with a sponsor who can provide a training environment conducive to beginning a career in type 1 diabetes-relevant research. At the time of activating the award, the applicant must have a doctoral degree (PhD, MD, DMD, DVM), or the equivalent from an accredited institution and must not be simultaneously serving an internship or residency.

Eligibility
Applicant
The fellowships are intended for those in a relatively early stage of their career. Ordinarily, their first degree (PhD, MD, DMD, DVM, or equivalent) will have been received no more than five years before the fellowship. Since this program is targeted to those who would benefit from postdoctoral research training in preparation for later faculty appointments, applicants may not have faculty appointments. There are no citizenship requirements for this program. To assure continued excellence and diversity among applicants and awardees, JDRF welcomes applications from all qualified individuals and encourages applications from persons with disabilities women and members of minority groups underrepresented in the sciences.

Sponsor
The applicant must be sponsored by an investigator who is affiliated full-time with an accredited institution and who agrees to supervise the applicant's training. The sponsor does not necessarily need to have a background in diabetes, but the research project must be type 1 diabetes-related.

Location
Fellowship research may be conducted at foreign and domestic, for-profit and nonprofit, and public and private organizations—such as universities, colleges, hospitals, laboratories, units of state and local governments, and eligible agencies of the federal government.

Proposal
All applications must be completed using the templates provided on the proposalCENTRAL website. See the proposalCENTRAL templates and the Applicant Guidelines sections for specific requirements.

Research Plan
The research plan should be suitable for a three-year postdoctoral training period. The project should ask a specific and substantive question and be relevant to JDRF's mission. Extensive discussion between the applicant and the proposed mentor is expected in order to identify an

appropriate research project—one that is up-to-date, instructive, and suited to a three-year fellowship period. The postdoctoral fellowship research plan may not exceed 7 pages, including figures and tables. Please note that the 7-page limit includes narrative items a through f, as described below. The research plan must be organized as follows: a) Specific Aims, b) Background and Significance of this work to Type 1 diabetes (provide a brief historical background of your proposed research, including 21 major findings by you and/or others in relevant fields. Explain why you have chosen this problem), c) Preliminary Results (if available), d) Research Designs and Methods. Describe, in detail, plans for solving problems, hypothesis, methodology, expected results, experimental subjects, controls, potential pitfalls and the rationale for the chosen approach), e) Other aspects (formal and informal) of the program that will contribute to the total training environment (examples include, but are not limited to, clinical experience with diabetic patients, interaction with senior professional with expertise in diabetes, participation in staff conferences, teaching, consultation, etc.), f) List any planned coursework, g) List pertinent literature references (no page limit). **All information in items a through f must be incorporated in the 7-page limit without exception. Applications with research plans exceeding the page limit will not be reviewed.** In addition, a Future Career Plans statement and a Training Plan statement must be included at the end of the Research Plan section (see below).

Future Career Plan Statement
The applicant must include a statement of career goals and indicate the relevance of these goals to type 1 diabetes-related research. The future career plans statement should detail the applicant's plan for career development as an independent investigator. Topics to be discussed by the applicant may include: how much of the applicant's time will be protected for research; how the proposed research will contribute to the applicant's independent career; an expected timeline for obtaining an independent position, if the applicant is not already at that stage; how the JDRF award will contribute to the applicant's future career plans; and any other planned formal or informal activities that will aid the applicant in establishing an independent research career. If the research proposed in the application is part of a larger research program or trial, the applicant should clearly define his/her role in the project and explain how their efforts on the project will lead to independence.

Sponsor Application Requirements
The sponsor must provide a biographical sketch, a list of previous trainees, and a statement of the plan for training the applicant. This statement must outline a detailed training program for the applicant as well as confirm the availability of facilities to conduct the research project. The sponsor's statement should address plans for supervision, guidance, counseling, or other formal or informal training of the applicant. The sponsor must also include accurate and complete information regarding all other sources of grant support (current and pending), including title, abstract, annual and total amount of grant, inclusive funding period, and percent effort.

Recommendation References
Three (3) recommendation references assessing the scientific abilities and potential of the applicant must be submitted. Please note that the recommendation references are confidential and will not be released to the applicant. *The recommendation references must be submitted directly to proposalCENTRAL by the referee.* ***Please note applications will not be validated until all references are submitted.*** Sponsors cannot be references, but should complete the Training Plans section of the Research Plan.

Evaluation
Fellowships will be awarded on the basis of the applicant's previous experience, academic record, the caliber of the proposed research, and the quality of the mentor, training program, and environment. The relevance of the proposal to the cause, cure, treatment, and/or prevention of diabetes and its complications will also be considered. The applicant's professional ability and

promise for a research career in type 1 diabetes will hold the highest priority in selection and will be assessed on the basis of the letters of recommendation, career plans, prior clinical and research training, academic transcripts, and the mentor's endorsement. Location in a department that will provide a stimulating research environment is an additional factor that will be considered in evaluating applicants.

Terms of Award & Stipend

Awards are for three years, assuming satisfactory progress. The fellowship term is 12 months for each fellowship year, and fellows must devote 100% of their effort to the project outlined in the fellowship application. Recipients of the JDRF postdoctoral fellowship award cannot hold another postdoctoral fellowship at the same time. Award amounts are based on years of relevant postdoctoral experience (see Table 2, below). There are no indirect costs allowed for fellowships and JDRF will make no deductions for income tax, Social Security, etc. A research allowance of USD 5,500 is aimed at providing the fellow with funds to enrich their training experience and can be used for travel to scientific meetings (up to USD 2,000/year), journal subscriptions, books, training courses etc. They are not to be used for laboratory supplies or equipment. The purchase of a personal computer is allowed (up to USD 2,000) only during Year 1 of the award. Health insurance costs are permissible. The award is renewable for a second year pending submission and approval of a renewal application and progress report.

Years	Stipend Research	Allowance	Total
0	$37,740	$5,500	$43,240
1	$39,756	$5,500	$45,256
2	$42,624	$5,500	$48,124
3	$44,304	$5,500	$49,804
4	$45,960	$5,500	$51,460
5	$47,940	$5,500	$53,440

Application Information:

Application Form: https://proposalcentral.altum.com/default.asp

Society of American Gastrointestinal and Endoscopic Surgeons

Website: http://www.sages.org/

Summary:

- Must be a SAGES member to apply
- Award is for 1 year
- Award amount is $60,000 and supports salary, travel and/or tuition.

Application Deadline: November 5th

Start Date: May 1st

SAGES 2010 Career Development Award

Purpose & Guidelines

The focus of this SAGES Foundation supported award is to provide funding for a young surgeon or surgeon-in-training for the development of critical skills required for their academic career in gastrointestinal and endoscopic surgery. The intent of this award is to delay the start of a faculty role or ongoing residency training for supplemental training/traveling fellowship or intense research time. This grant will provide the awardee with a unique educational opportunity that would not otherwise be available. Awards are conferred on a competitive basis by submission of a grant application, which is reviewed and evaluated by the SAGES Research and Career Development Committee and approved by the Governing Board.

Available Grants

The award will be $60,000 to support travel, salary, and/or tuition. (Note: The salary support portion of the grant will be taxable)

Grant Guidelines

Eligible applicants must be SAGES candidate members (including residents and Fellows), or members early in their faculty appointment (within five years of completed training). This award is not intended to be used for research supplies. The time commitment for the project is to be at least 6 months. Awardees will summarize their experience at the SAGES Annual Meeting and submit results to Surgical Endoscopy or Mini-SCOPE. Examples of successful proposals could include, but are not exclusive to the following:

- Salary support for basic or clinical investigation by the awardee.
- Salary support for intensive training in a clinical area (interventional endoscopy, NOTES, advanced laparoscopic techniques).
- Salary support for research, management, leadership or related training (outcomes, legislative, safety, financing

Instructions

SAGES Career Development Award applications must be submitted online and you must be logged in as a member to submit a grant application.

Plan of Study (Not to exceed 6 pages)

- Why are you interested in this award?
- Detail of 6-month proposal, including timeline.
- How will the proposed plan contribute to the field of gastroinestinal and endoscopic surgery and/or improve patient care?

- What are your future career plans?
- How will this award help you achieve your long term goals?
- Other potential or secured funding sources for the proposed award time.

Letter from Current Chair (or Chair/Chief you will return to at completion of fellowship if changing positions)

Letter from proposed hosting institution(s) with agreements for support

Other letters of reference as applicable (maximum 3)
Letters of recommendation should be emailed to Maribeth Balon at maribeth@sages.org or faxed at (310) 437-0585. All letters must be received by the Friday, November 5, 2010 at 5pm Eastern time deadline.

Curriculum Vitae
Submit curriculum vitae for the principal investigator and any co-investigators in a 4 page, NIH biosketch format.

Deadline
Grant Proposals must be received by the SAGES office by Friday, November 5, 2010 at 5pm Eastern. The applicants will be reviewed in early February 2010 and will be announced during the award ceremony at the 2011 SAGES Annual Meeting, March 30-April 2, 2011.

Contact Information - For additional information, contact the Research and Career Development department at research@sages.org or (310) 437-0544, ext 125.

Application Information:
Application Form: http://www.sages.org/leadership/committees/research/cda_begin.php

Other Funding Opportunities

Alfred P. Slogan Foundation:
(http://www.sloan.org/)
Offers postdoctoral fellowships in chemistry, physics, mathematics, computer science, economics, and neuroscience or related interdisciplinary field.

Alpha One Foundation:
(http://www.alphaone.org/)
The specific aims of the Alpha-1 Foundation's in-cycle peer reviewed grants program are to promote research that would eventually result in the improved health of individuals with AAT.

American Academy of Family Physicians:
(http://www.aafp.org/)
Offers several different types of awards, grants, and scholarships to practicing residents and medical students. Also offers graduate and postgraduate funding programs designed for minority students.

American Academy of Optometry:
(http://www.aaopt.org/)
Offers a variety of awards, grants, and scholarships to graduate and postgraduate students pursuing studies in basic and applied vision science.

American Association of Neurological Surgeons:
(http://www.aans.org/)
Offers research fellowships and grants to neurosurgeons who are preparing for academic careers as clinical investigators.

American Association of University Women Educational Foundation:
(http://www.aauw.org/).
The foundation provides grants and fellowships (1 year) exclusively to graduate women pursuing professions where women are underrepresented.

American College of Healthcare Executives:
(http://www.ache.org/)
Albert W. Dent Student Scholarships are awarded to minority students in a healthcare management program.

American Diabetes Association:
(http://www.diabetes.org/)
Offers different types of postdoctoral fellowship awards for study with an established diabetes investigator.

American Digestive Health Foundation (ADHF):
(http://www.gastro.org/)
The ADHF funds numerous research awards to encourage scientific and clinical discovery. These awards provide opportunities for individuals from the high school student to the established investigator in many areas of concentration in gastroenterology and hepatology. Approximately $2.0 million is awarded in 11 different categories.

American Federation for Aging Research:
(http://www.afar.org/)
Offers the Medical Student Geriatric Scholars Program, which is used to identify and develop future leaders in geriatric medicine. The Ellison Medical Foundation / AFAR Senior Postdoctoral Fellows Research Program awards two-year fellowships to M.D.s and Ph.D.s.

American Health Assistance Foundation:
(http://www.ahaf.org/)
This organization has grants towards the study of Alzheimer's, macular degeneration, and heart disease.

American Liver Foundation:
(http://www.liverfoundation.org/)
Offers five postdoctoral research fellowships for investigational work relating to liver physiology and disease, in preparation for a career of independent research in this field.

American Lung Association (ALA):
(http://www.lungusa.org/)
Offers ALA Research Grants and ALA Awards Program to support investigators pursuing lung-related research. Minority candidates are encouraged to apply.

American Society of Plastic Surgeons:
(http://www.plasticsurgery.org/Foundation/Research_Grant_and_Fellowship_Applications.html)
Underwritten by the Lyndon Peer Foundation, the research fellowship will be awarded for the purpose of encouraging research and academic career development in cleft lip and palate, or craniofacial surgery.

American Statistical Association:
(http://www.amstat.org/index.cfm?fuseaction=main)
Offers several different graduate-level fellowships in health research and economic analysis.

Arthritis Foundation:
(http://community.arthritis.org/)
Provides multiple funding opportunities for scientists and physicians who wish to embark on research careers in arthritis and rheumatic disease.

Association for Gerontology in Higher Education:
(http://www.aghe.org)
Offers graduate-level scholarships and fellowships to students committed to studying gerontology with the goal of working in aging-related careers.
–NO FELLOWSHIPS AVAILABLE AT THIS TIME(8/17/09)

Bristol-Myers Squibb:
(http://www.bms.com/landing/data/)
Offers fellowships to minority students pursuing careers in academic medicine and biomedical research.

Burroughs Wellcome Fund:
(http://www.bwfund.org/)
Offers a variety of educational programs, awards, grants, and scholarships to students at the postgraduate level who are pursuing careers in biomedical and medical sciences.

Cooley's Anemia Foundation:
(http://www.thalassemia.org/)
Offers medical fellowship awards for postgraduate study in all areas of thalassemia research including iron chelation, fetal hemoglobin stimulation, gene therapy, bone marrow transplantation and organ iron measurement.

Chron's & Colitis Foundation of America:
(http://www.ccfa.org/)
Offers awards and financial support to students performing research on topics relevant to inflammatory bowel disease for a minimum of ten weeks.

Cystic Fibrosis Foundation:
(http://www.cff.org/)
Offers research traineeships to senior-level undergraduate medical students interested in research related to Cystic Fibrosis (CF). Offers research fellowships to postgraduates interested in conducting basic or clinical research related to CF.

Dystonia Medical Research Foundation:
(http://www.dystonia-foundation.org/)
Offers fellowship to assist post-doctoral students establishing careers in dystonia research.

Epilepsy Foundation:
(http://www.efa.org/)
The Epilepsy Foundation awards post-doctoral fellowships for cutting-edge research into the causes, treatment and consequences of epilepsy.

Helen Hay Whitney Foundation:
(http://www.hhwf.org/)
Offers research fellowships to medical scientists planning careers in biological or medical research.

Hereditary Disease Foundation:
(http://www.hdfoundation.org/)
Offers fellowships for research projects that will contribute to identifying and understanding the basic defect of Huntington's disease.

Huntington's Disease Society of America:
(http://www.hdsa.org/)
The Huntington's Disease Society of America (HDSA) places a high priority on research into the cause, prevention, detection, treatment and cure of Huntington's Disease (HD). Research Fellowship awards are designed to help promising postdoctoral investigators in the early stages of their careers.

Immune Deficiency Foundation:
(**http://www.primaryimmune.org/**)
Offers scholarships to students with immune deficiencies and fellowships to students wishing to pursue postdoctoral studies in the field of Primary Immune Deficiency Diseases.

International Foundation for Ethical Research:
(http://www.ifer.org/)
Offers Graduate Fellowships in Animal Welfare to students dedicated to development and implementation of scientifically valid alternatives to the use of animals in research, product testing, and education.

Kidney & Urology Foundation of America:
(http://www.kidneyurology.org/)
Offers research fellowships to support the training and development of new researchers who will advance the knowledge and understanding of kidney, urologic and hypertensive diseases, and ultimately the search for treatments and cures for these diseases.

Leukemia Research Foundation:
(http://www.leukemia-research.org)
Offers fellowships for postdoctoral trainees who wish to work in a research area related to leukemia and related disorders.

Life Sciences Research Foundation:
(http://www.lsrf.org/)
LSRF awards fellowships across the spectrum of the life sciences: biochemistry; cell, developmental, molecular, plant, structural, organismic population and evolutionary biology; endocrinology; immunology; microbiology; neurobiology; physiology; virology.

Lustgarten Foundation for Pancreatic Cancer Research:
(http://www.lustgarten.org/)
Offers research grants to M.D.s or Ph.D.s wishing to conduct research focused on the screening or therapeutic interventions for pancreatic cancer.

Morris K. Udall Foundation:
(http://www.udall.gov/)
The foundation awards scholarships to Native American and Alaska Natives in fields related to health care or tribal policy. Also offers summer congressional internships.

National Center for Injury Prevention and Control
(http://www.cdc.gov/ncipc)
The NCIPC extramural research program funds and monitors research in three phases of injury control: prevention, acute care, and rehabilitation. The program also funds research in the two major disciplines used in injury control research: biomechanics and epidemiology. Research supported by the program focuses on the broad-based need to control morbidity, disability, death, and costs associated with injury.

National Kidney Foundation:
(http://www.kidney.org)
The purpose of National Kidney Foundation (NKF) Research Fellowships is to foster training of young and new investigators with the potential of making contributions to the understanding and cure of kidney diseases. Application deadlines will be announced in September.

National Science Foundation:
(http://www.nsf.gov/bio/)
Offers postdoctoral fellowships in basic science including 1) Integrative Biology and Neuroscience and 2) Molecular and Cellular Bioscience.

Pfizer:
(http://www.pfizer.com)
Offers postdoctoral fellowships in biological psychiatry, cardiovascular medicine, infectious diseases, research on health outcomes, and rheumatology/immunology. Deadline for applications is January 31tst 2010

Population Council:
(http://www.popcouncil.org/)
Offers three different graduate and postdoctoral fellowships in areas of biomedical, social science, and public health. Deadline for applications is January 15th 2010.

Population Council Minority Program:
(http://www.popcouncil.org/)
Offers the Vietnam Fellowship Program which supports highly qualified Vietnamese health professionals in obtaining the Master of Public Health (M.P.H.) degree in the United States.
– CURRENTLY NOT ACCEPTING APPLICATIONS (10/20/2010)

Robert Wood Johnson Foundation:
(http://www.amfdp.org/)
The foundation's Minority Medical Faculty Development Program offers four-year, postdoctoral research fellowships to minority physicians who have demonstrated superior academic and clinical skills and who are committed to careers in academic medicine.

Rockefeller Brothers Fund:
(http://www.rbf.org/)
The Charles E. Culpepper Scholarships in Medical Science offers postdoctoral scholarships in medical science to those pursuing careers as academic physicians.
– CURRENTLY NOT ACCEPTING APPLICATIONS (8/19/09)

Society of Toxicology:
(http://www.toxicology.org/)
Offers fellowships and travel awards to students pursuing careers in toxicology. Also offers a special travel program for minority students.

The Fellowship Council
https://fellowshipcouncil.org/residents/index2.php
The Fellowship Council is an association of MIS and Surgical Gastrointestinal Endoscopy fellowship directors formed to address the unique needs of fellowship directors. The Fellowship Council provides a communication forum for disseminating information about fellowship programs, discussing fellowship issues and communicating the Council's positions to other organizations. The Council will also establish criteria for implementing and enriching fellowship programs and standardizing the fellowship application and selection process.

U.S. Agency of Healthcare Research and Quality:
(http://www.ahcpr.gov/)
Offers several postdoctoral research awards and fellowships in health services research. Also has a special program of awards for minority students.

U.S. Centers for Disease Control and Prevention:
(http://www.cdc.gov/)
Offers postdoctoral fellowships for professionals pursuing careers in informatics and in public health. Also has a special program of awards for minority students.

U.S. Department of Education:
(http://www.ed.gov/index.jhtml)
Offers several different fellowships in the areas of fine arts, education, humanities, environmental sciences, social sciences, neurosciences, and interdisciplinary studies.

U.S. Department of Health and Human Resources:
(http://www.dhhs.gov/)
The Office of Minority Health Resource Center maintains a database of funding resources that can help support minority health projects and other health related programs. The database lists private and public foundations; pharmaceutical and insurance organizations; journal articles, directories, books; fellowship, scholarship and internships; and federal state and community resources. Information can be sought using a specific search format.