



RESEARCH FELLOWSHIPS in VASCULAR SURGERY
AT HARVARD MEDICAL SCHOOL
Available 1 July, 2012

Fellowships are available for research training in molecular and cell biology, biomechanics, coagulation and thrombosis, genomics, angiogenesis and clinical outcomes, with a focus on clinically relevant problems, such as atherogenesis, intimal hyperplasia, prosthetic/host interactions and thrombosis. Trainees will pursue a program of intense research activity along with course work in research design, ethics, statistics, and evaluation of published research. This training program, *Harvard-Longwood Research Training in Vascular Surgery*, is designed to provide two years of intense research training in vascular surgery for academic clinicians. This program addresses the absence of adequate research training for vascular surgeons as it applies to specific areas of clinical disease.

Trainees carry out their research projects under the guidance of a faculty advisor, selected from 20 renowned vascular researchers based at four Harvard Medical School hospitals: the Beth Israel Deaconess Medical Center, Brigham and Women's, Children's Hospital (Boston), and the Joslin Diabetes Institute, as well as The Massachusetts Institute of Technology. Laboratory training is supplemented by graduate level training at Harvard Medical School and Harvard's Faculty of Arts and Sciences, with course selection complementing laboratory endeavors. Upon completion of the program, trainees will be capable of independent research and will possess the scientific and research background needed to obtain competitive peer-reviewed grants.

Selection of trainees is based on candidates' demonstrated ability and career choice of academic practice. Applicants should be United States citizens or permanent residents (green card holders) who are resident physicians, and have completed either two or three years of clinical post-doctoral experience (surgical residency) or five years of clinical training (i.e. are board eligible). Only those applicants with career goals in academic surgery, with a keen interest in basic research in vascular surgery, will be compatible. Candidates pursuing a fellowship during a program of clinical training must provide evidence that they will be accepted back into that program upon completion of their research training in the proposed program will not be involved in any clinical activities unless research related.

Interested applicants are encouraged to apply online at www.LongwoodVascularSurgery.com/training. In addition, each applicant must submit a medical school transcript, curriculum vitae, three letters of recommendation, and a personal statement detailing their interest in research, as well as long-range goals for consideration. Selection is based on merit only, without bias to gender, race, color, or ethnic origin. The Executive Committee will consider completed applications for admission; prior to a final selection, each finalist candidate will be interviewed by two of the Committee's members, including the faculty member most likely to be the candidate's principal advisor. Currently, we are in the process of updating our website, which should have minimal impacts on the functionality of the website.

SUPPORT: Includes NIH Stipend, benefits, courses at HMS, travel funds, and academic appointment at Harvard Medical School as a Research Fellow. Upon acceptance, trainees may wish to apply to NIH Loan Repayment Program (www.lrp.nih.gov).

CONTACT:

LEENA PRADHAN, PH.D.
Vascular Surgery Research
Beth Israel Deaconess Medical Center
330 Brookline Ave. Room 805
Boston, MA 02215
E-mail: lpradhan@bidmc.harvard.edu
Phone: (617) 667-0096
Fax: (617) 975-5300

PROGRAM DIRECTOR:

FRANK W. LOGERFO, M.D.
Distinguished William V. McDermott Professor of Surgery,
Harvard Medical School
Beth Israel Deaconess Medical Center
110 Francis Street
Boston, MA 02215
E-mail: flogerfo@bidmc.harvard.edu

DEADLINE: 1 January 2012

Participating Faculty

| Program Director: | | |
|---------------------------------------|--|--|
| Faculty Member | Research Area | Department/ Institution |
| Frank W. LoGerfo, M.D. | Vascular grafts; intimal hyperplasia | Surgery/BIDMC |
| John Z. Ayanian, M.D., M.P.P. | Access to care; quality of care; health care disparities in cardiovascular medicine | Health Care Policy/HMS & General Medicine/BWH |
| Elliot L. Chaikof, M.D., Ph.D | Bio/Molecular Engineering and Advanced Vascular Technologies | Surgery/BIDMC |
| Patricia A. D'Amore, Ph.D. | Development and growth control in the vasculature | Pathology/SERI |
| Pedro J. del Nido, M.D. | Ischemic contractile dysfunction and apoptotic pathway activation | Surgery/CHB |
| Christiane Ferran, M.D., Ph.D. | Modulation of endothelial cell activation by the anti-apoptic gene A20; protection of the vessel wall from atherosclerosis using the cytoprotective gene A20 | Surgery/BIDMC |
| Michael A. Gimbrone, Jr., M.D. | Endothelium-dependent mechanisms in vascular disease | Pathology/BWH |
| Per-Olof Hasselgren, M.D., Ph.D. | Molecular mechanisms of sepsis in surgery | Surgery/BIDMC |
| Seth Karp, M.D. | Molecular mechanism of liver development and regeneration | Surgery/BIDMC |
| George L. King, M.D. | Vascular dysfunction in diabetes mellitus | Medicine/Joslin |
| Bruce Landon, M.D., M.B.A. | Development of a theoretical model to explain the potential impact of health care organizations on the quality of patient care. | Health Care Policy/HMS & Medicine/BIDMC |
| Robert S. Langer, D.Sc. | Interface of biotechnology and materials science | Chemical & Biomed. Eng./CHBV Surgery/BWH |
| James Lederer, PhD | Immune system during injury and trauma | Surgery/BWH |
| Steven J. Mentzer, M.D. | Regenerative medicine by application of principles of structural biology, adaptive physiology and tissue engineering. | Surgery/BWH |
| Richard N. Mitchell, M.D., Ph.D. | Immune mediated transplant arteriopathy | Pathology/BWH |
| James P. Morgan, M.D., Ph.D. | Stem cells in myocardial regeneration | Cardiology/BIDMC |
| Richard C. Mulligan, Ph.D. | Gene transfection of vascular cells | Medicine/Harvard Institute of Human Genetics & CHB |
| Louis Nguyen, M.D., M.B.A., M.P.H. | Clinical outcomes and economic analysis research | Surgery/BWH |
| J. Peter Oettgen, M.D. | Intracellular signaling/transcription factors | Cardiology/BIDMC |

| | | | |
|---|--|------------------------------|--|
| Keith Ozaki, M.D. Marc Schermerhorn, M.D. | Inflammation and hemodynamic adaptation Clinical outcomes research | Surgery/BWH Surgery/BIDMC | |
| | | | |
| BIDMC BWH CHB HMS | Beth Israel Deaconess Medical Center Brigham & Women's Hospital Children's Hospital Boston Harvard Medical School | Joslin MGH MIT SERI | Joslin Diabetes Center Massachusetts General Hospital Massachusetts Institute of Technology Schepens Eye Research Institute |