

CURRICULUM VITAE

Frank William Sellke, MD

ADDRESS: Rhode Island Hospital
Division of Cardiothoracic Surgery
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EDUCATION:

Undergraduate:

1978 A. B. Wabash College, Crawfordsville, IN
Phi Beta Kappa, Summa Cum Laude
Comprehensive Final Examination in Chemistry, Pass with Distinction

Medical School:

1981 M. D. Indiana University School of Medicine, Indianapolis, IN

Other Advanced Degrees:

2000 M.A. (Honorary) Harvard University, Cambridge, MA

2001 Executive Course "Skills for the New World of Health Care"
Harvard University, Kennedy School of Government, Cambridge, MA

POSTDOCTORAL TRAINING:

1981-1982 Intern, Surgery, Indiana University Hospital, Indianapolis, IN

1982-1986 Resident, General Surgery, Akron City Hospital, Northeastern Ohio
Universities College of Medicine, Akron, OH

1986-1987 Chief Resident, Surgery, Akron City Hospital, Northeastern Ohio
Universities College of Medicine, Akron, OH

1987-1990 Chief Resident, Thoracic and Cardiovascular Surgery
University of Iowa Hospitals and Clinics, Iowa City, IA

1988-1989 Research Fellow, Vascular Physiology
Cardiovascular Center, University of Iowa College of Medicine, IA

POST DOCTORAL HONORS AND AWARDS:

1985	Cleveland Surgery Society Research Award
1985	Ohio Chapter, American College of Surgeons Research Award
1992	Young Investigator Award, American Heart Association
1992	Physician-Scientist Award, American College of Chest Physicians
1993	Young Investigator Award, American Heart Association
2002	Joel J. Roslyn Commemorative Lecture, Society of University Surgeons
2002	Top Doctors in Boston, Cardiac Surgery, Boston Magazine
2002	Journal of Thoracic Cardiovascular Surgery Reviewer Award
2003	Top Doctors in Boston, Cardiac Surgery, Boston Magazine
2003	Journal of Thoracic Cardiovascular Surgery Reviewer Award
2003	"Top Doctors" Consumer's Guide to Top Doctors Center for the Study of Services
2004	Best Doctors in America Listing, Castle Connolly
2004	Journal of Thoracic Cardiovascular Surgery Reviewer Award
2005	Best Doctors in America Listing, Castle Connolly
2005	Journal of Thoracic Cardiovascular Surgery Reviewer Award
2006	Journal of Thoracic Cardiovascular Surgery Reviewer Award
2006	Best Doctors in America Listing, Castle Connolly
2007	America's Top Surgeons, Consumers' Research Council of America
2007	Best Doctors in America Listing, Castle Connolly
2007	Who's Who in America

PROFESSIONAL LICENSE AND BOARD CERTIFICATION:

1981	Indiana Medical License
1988	American Board of Surgery <i>ABS-Recertified: 1995, 2005</i>
1989	Iowa Medical License (inactive)
1990	Massachusetts Medical License
1991	American Board of Thoracic Surgery <i>ABTS-Recertified: 1999</i>
2001	Rhode Island Medical License

ACADEMIC APPOINTMENTS:

1987-1990	Fellow Associate in Cardiothoracic Surgery University of Iowa College of Medicine
1990-1993	Instructor in Surgery, Harvard Medical School
1993-1995	Assistant Professor of Surgery, Harvard Medical School
1995- 2000	Associate Professor of Surgery, Harvard Medical School
2000- 2001	Professor of Surgery, Harvard Medical School
2001-2008	Johnson and Johnson Professor of Surgery, Harvard Medical School

- 2008- Visiting Professor of Surgery, Harvard Medical School
- 2009 Professor of Cardiothoracic Surgery, Warren Alpert School of Medicine of Brown University.
- 2009- Karl E.Karlson and Gloria A. Karlson Professor of Cardiothoracic Surgery, Warren Alpert School of Medicine of Brown University.

HOSPITAL APPOINTMENTS:

- 1990-1996 Associate in Cardiothoracic Surgery, Beth Israel Hospital, Boston, MA
- 1990-1996 Clinical Associate in Surgery, Massachusetts General Hospital, Boston, MA
- 1992-1997 Director of Cardiac Surgery Outpatient clinic, BIH/BIDMC East Campus
- 1994-1996 Active Staff (Cardiothoracic Surgery), Deaconess Hospital, Boston, MA
- 1996-P Active Staff, (Cardiothoracic Surgery), Beth Israel-Deaconess Medical Center, Boston, MA
- 1999- 2006 Director, Cardiothoracic Surgery Residency, BIDMC
- 1999- 2001 Interim Chief, Division of Cardiothoracic Surgery Beth Israel Deaconess Medical Center, Boston, MA
- 2000- 2005 Interim Chief (Cardiac Surgery), Landmark Medical Center, RI
- 2001- 2006 Chief, Cardiothoracic Surgery, Beth Israel Deaconess Medical Center, Boston, MA
- 2005- 2008 Chief of Department of Cardiovascular Surgery and Medicine (Cardiac Surgery, Cardiology, Cardiac anesthesia) Landmark Medical Center, Woonsocket RI
- 2005- 2008 Chairman, Department of Cardiovascular Surgery and Medicine, Landmark Medical Center, Woonsocket RI
- 2006- P Chief of Cardiothoracic Surgery Research, Beth Israel Deaconess Medical Center, Boston, MA
- 2008-P Chief of Cardiothoracic Surgery Rhode Island Hospital & The Miriam Hospital The Warren Alpert Medical School of Brown University Providence, RI
- 2008-P Co-Director, Heart Center, Lifespan Rhode Island Hospital & The Miriam Hospital Providence, RI

OTHER APPOINTMENTS:

EDITORIAL BOARD:

1998-00 Member, Surgery
1998-07 Member, Journal of Thoracic and Cardiovascular Surgery
1999- 2001 Member, Basic Research in Cardiology
1999-2003 Member, Internet Cardiothoracic Digest (AATS)
2001-2006 Member, Journal of Surgical Research
2004-2007 Editor, Cardiovascular Surgical Supplement, Circulation
2005- Member, Shock
2005- Member, Journal of Cardiac Surgery
2005- Guest Editor, Circulation
2007-12 Associate Editor, Journal of Thoracic and Cardiovascular Surgery

AD HOC REVIEWER:

Journal of Clinical Investigation
Annals of Thoracic Surgery
Journal of Thoracic and Cardiovascular Surgery
Circulation Research
Circulation
Circulation, Surgical Issue
Surgery
American Journal of Physiology, Heart and Circulatory Physiol.
American Journal of Physiology, Cell Physiology
Cardiovascular Research
Journal of Molecular and Cellular Cardiology
Intensive Care Medicine
Anesthesia and Analgesia
Anesthesiology
Chest
Microvascular Research
Basic Research in Cardiology
Transplantation
Journal of Surgical Research
Magnesium Research
Shock
British Journal of Pharmacology
Arteriosclerosis, Thrombosis, and Vascular Biology
Journal of Physiology
Clinical Science
Heart and Vessels
Annals of Surgery
Trends in Cardiovascular Medicine
Expert Opinion on Emerging Drugs
Journal of Molecular and Cellular Biochemistry

Physiologic Genomics
American Journal of Cardiology
Life Sciences
Journal of the American College of Cardiology
Clinical Medicine and Research
Diabetes Journal
Cardiovascular Pathology
American Journal of Pathology
Journal of Thrombosis and Haemostasis
Cytokine
Nature Clinical Practice Cardiovascular Medicine
Drug Discovery Today
New England Journal of Medicine
Expert Opinion on Therapeutic Targets
BMC Cardiovascular Disorders
Journal of Vascular Research
Proceedings of the National Academic of Science
Journal of the American College of Surgeons
Pharmacological Research

- 1994 Ad Hoc Reviewer: Merit Grant, Veteran's Administration, Spring and Fall
- 1994 Ad Hoc Reviewer: Long-Term Research Grant
International Science Foundation
- 1994 Visiting Professor in Anesthesiology Research
Johns Hopkins Hospital, Baltimore, MD
- 1995 Visiting Professor
Dunedin Hospital, Dunedin, New Zealand
- 1995-1999 Ad Hoc Reviewer: Merit Grant, Veteran's Administration
Spring '95 & Fall '96, Summer '99
- 1997 Ad Hoc Reviewer: National Institutes of Health
Division of Research Grants (February)
Surgical-Bio-Engineering Study Section
- 1997-1998 Safety Monitoring Officer
"Delivery System for Transmyocardial Revascularization by Xenon chloride
excimer laser", US Surgical Corp
- 1998-2000 Abstract Grader: American Heart Association Scientific Sessions
- 1998 Visiting Professor, University of Iowa College of Medicine, Iowa City, IA
- 1998-1999 Abstract Grader: Society of University Surgeons Residents' Program

1998 Ad Hoc Reviewer: National Institutes of Health,
Division of Research Grants
Surgery, Trauma, Anesthesiology Study Section

1999 Visiting Professor, University of Sao Paulo, Brazil

1999 Visiting Professor, University of Brazilia, Brazil

1997 Safety Monitoring Officer
“High Risk Registry of Localized Radiation Therapy to Inhibit Restenosis
after Stenting” (protocol #P98-5502)

1999 Visiting Professor, Carolinas Heart Institute, Charlotte, NC

1999 Ad Hoc Reviewer: National Institutes of Health
Division of Research Grants (October)
Surgery, Trauma, Anesthesiology Study Section

1999 Ad Hoc Reviewer: National Institutes of Health
Division of Research Grants
Special Study Section W (25)

1999 Ad Hoc Reviewer, US Army Medical Research and Materials Command

2000 Ad Hoc Reviewer: National Institutes of Health,
Division of Research Grants
Special Study Section

2000 Abstract Reviewer: European Society of Surgical Research Meeting

2000 Visiting Professor, Medical Physiology
Texas A & M University
College Station, TX

2000 Visiting Professor, Bethesda Trihealth Good Samaritan, Cincinnati, OH

2000 Abstract Grader, American College of Chest Physicians

2000-2004 Regular Member: National Institutes of Health
Center for Scientific Review
Surgery, Trauma, Anesthesiology Study Section

2001 Visiting Professor, University of Toronto, Toronto, Ontario

2001 Visiting Professor, Carolina Heart Institute, Charlotte, NC

2002 Scientific Advisory Boards of the International Academy of Cardiology and of
the 8th World Congress on Heart Failure

2002 Abstract Grader: Society of University Surgeons Residents’ Program

2002 Ad Hoc Reviewer: National Institutes of Health,
Center for Scientific Review
Surgical-Bio-Engineering Study Section

2002 Ad Hoc Grant Reviewer: Canadian Institutes of Health Research

2003 Ad Hoc Grant Reviewer: Center for Scientific Review
National Institutes of Health, Special Study Section, (February)

2003 Visiting Professor, Ottawa Heart Institute, Ottawa, Canada

2003 Ad Hoc Reviewer: National Institutes of Health
Center for Scientific Review, (ZRG1 SSS-X) Special Study Section (June)

2003 Abstract Grader and Program Committee for Cardiothoracic & Vascular
Surgery & Anesthesia, American Heart Association Scientific Sessions

2003 Special Safety Monitoring and Review Committee
Hemosol Blood Substitute Trial

2003 Safety Monitoring Committee
Edwards I-Revive Percutaneous Aortic Valve Trial

2004-2008 Consultant: Committee for the Basic Science Section of the
American Board of Surgery Examination

2004 Abstract Grader: American College of Cardiology Meeting.

2004 Data Safety Monitorin Board, Duraheart Terumo Implantable LVAD trial

2005 Data Safety Monitoring Board, Recast percutaneous Aortic Valve Study

2005 Grant Reviewer: Canadian Institutes of Health Research

2005 Visiting Professor: East Carolina University
Broady School of Medicine, Greenville, NC

2005 Visiting Professor: Indiana Univesity School of Medicine, Indianapolis IN

2006 Ad Hoc Reviewer: National Institutes of Health
Center for Scientific Review (ZRG1 CVS-B 02) Study section

2006 Grant Reviewer: Canadian Institute of Health Research

2006 Data Safety Monitoring Board (DSMB)
“Biopure Corporation Enhancement of Tissue Preservation during
Cardiopulmonary Bypass with HBOC-201”

2006 Data Safety Monitoring Board (DSMB) for Veterans Administration
VA Coronary Artery Revascularization in Diabetes Study (VA CARDS)

2006 External Evaluator: Ottawa Heart Institute Division of Cardiac Surgery

2006 Reviewer: National Institutes of Health, Center for Scientific Review. ZRG1
CVS D-02 Study Section

2007 Chairman: National Institutes of Health, Center for Scientific Review ZHL1
CSR-A (M1) Research Project in Cardiothoracic Surgery
(NHLBI Cardiothoracic Surgical Network Group) Study Section

2007 Member: Northeast/Heritage Affiliate NEA 5 Grant Peer Review Study
Section, American Heart Association

2007 Member: National Institutes of Health Special Emphasis Panel
(ZRG1 CVS D (03))

2007 Member, Post-Circulatory Arrest Statement of Science Writing Group
American Heart Association

2007 Data Safety Monitoring Board (DSMB) for Edwards Lifescience
Transcatheter Heart Valve Trial: REVIVAL-
Transfemoral and Transapical approaches

2007 Visiting Professor: Department of Surgery,
Emory University School of Medicine, Atlanta GA

2007 Examiner: American Board of Thoracic Surgery
Oral Certifying Examination

2007 Visiting Professor: Departments of Cardiovascular Surgery & Anesthesiology,
Montreal Heart Institute
University of Montreal, Montreal Canada

2007-P Data and Safety Monitoring Board, Dyax-88 Clinical Trial

2007-P Steering Committee and Publications Committee. Novo Nordisk Phase II
recombinant aVII clinical trial

2007-P Member, Massachusetts Department of Public Health Advisory Committee on
Cardiac Surgery and Angioplasty

2007 Visiting Professor: Department of Cardiovascular Surgery, Laval University
Hospital, Quebec City, Canada

2008-2012 Chairman: NHLBI Data and Safety Monitoring Board (DSMB) for the Cardiothoracic Surgical Network

2008 Member: ZRG1CVS Special Emphasis Panel on Angiogenesis and Vasculogenesis. National Heart Lung and Blood Institute

2008 Abstract Grader: European Society of Cardiology

2008 Visiting Professor: Department of Cardiothoracic Surgery Massachusetts General Hospital

2008 Member: Special Emphasis Panel (ZRG1 CVS D (02) National Institutes of Health

2008 Member: Special Emphasis Panel (ZHL1 CSR-N (F1) National Institutes of Health

2008 Member: Special Emphasis Panel (ZHL1 SRC (99) National Institutes of Health

2009 Member, Special Emphasis Panel (ZHL1 CCT-O (C1) SZHL1 CCT-O (C1) S). National Institutes of Health

2009 Steering Committee. Novo Nordisk Phase II factor XIII clinical trial

2009 Visiting Professor. China Medical University. Shenyang China

2009 Member: Special Emphasis Panel 2009/10 ZRG1 SBIB-V (58) R RFA OD-09-003 Challenge

HOSPITAL COMMITTEES:

Beth Israel Hospital/Beth Israel Deaconess Medical Center

1992-1993 Member, Critical Care Committee

1994-1996 Member, Planning Committee for Carl Shapiro Clinical Center

1994-2000 Member, Animal Care and Use Committee

1994-1996 Member, Trauma Research Advisory Committee

1994-1996 Member, Anesthesia Research Advisory Committee

1998 Ad hoc Reviewer, BIDMC Investment Awards-Junior Investigator Award

1998-2000 Congestive Heart Failure Disease Management Program

1999-2000 Cardiac Outreach Committee, BIDMC

2000-2001 Co-chairman, Cardiology/Cardiac Surgery Clinical volume initiative

2000-2001 Member, BIDMC/Joslin Joint Initiative for Cardiology

2001-2004 BIDPO Contracts and Payments Committee

2001-2002 Cardiology Chief Search Committee

2001- Physicians Advisory Committee, BIDMC
 2001- Research and Education Implementation Committee, BIDMC
 2006- 2004 Research Strategy Committee, BIDMC
 2003 Member, Pathology Department Chairman Search Committee
 2003 Member, Heart Failure Chief Search Committee
 2004- Member, Research Advisory Committee
 2005- Member, Research Strategic Planning Executive Committee
 2005 Member, Ad hoc evaluation committee for Chief of Vascular Surgery

Harvard Medical School

2000-2002 Chairman, Ad hoc Professor Promotion Committee for Stanley Ashley, MD
 2001-2004 Committee on Promotions, Reappointments, and Appointments, HMS
 2003 Member, Ad hoc Professor Promotion Committee for Douglas Hanto, MD
 2003-2004 Member, Ad hoc Professor Promotion Committee for P-O Hasselgren, MD
 2004-2005 Chairman, Ad Hoc Professor Promotion Committee for KG Morgan, PhD
 2005-2006 Chairman, Ad Hoc Professor Promotion Committee for Greg Stahl, PhD
 2005- Member, Ad Hoc Professor Promotion Committee for Steven J. Mentzer, MD
 2006- Member, Ad Hoc Professor Promotion Committee for Kenneth Bloch, MD
 2007-2009 Sub-committee of Professors
 2007 Oral examiner of 4th year medical students
 2007-2008 Chairman, Ad Hoc Professor Promotion Committee for Peter Laussen, MD
 2008 Member, Project Success Selection Committee

PROFESSIONAL SOCIETY INVOLVEMENT:

1978-P American Medical Association
 1979-1981 Legislative Commission, Indiana State Medical Society
 1983-1990 American College of Surgeons, Candidate Group
 1990-1993 American College of Surgeons, Associate Fellow
 1990-P Massachusetts Medical Society
 1990-P Norfolk District Medical Society
 1990-P American Heart Association
 1991-P American Heart Association, Massachusetts Affiliate
 1991-P Council on Circulation, American Heart Association
 1992-P Fellow, American College of Chest Physicians
 1992-P New England States Chapter, American College of Chest Physicians
 1992-P Fellow, American College of Cardiology
 1992-P Association for Academic Surgery
 1992-P American Physiological Society
 1992-P Fellow, Council on Circulation (Basic Science), American Heart Association
 1992-P Council on Cardiothoracic and Vascular Surgery, American Heart Association
 1993-P American Association for the Advancement of Science
 1993-P Massachusetts Chapter, American College of Cardiology
 1993-P Fellow, American College of Surgeons
 1993-P American College of Surgeons, Massachusetts Chapter
 1994-P Society of Thoracic Surgeons
 1995-P Society of University Surgeons

1995-2003 Shock Society
 1995-2000 International Association for Cardiac Biological Implants
 1995-P Boston Surgical Society
 1995-P American Association for Thoracic Surgery
 1996-P Surgical Biology Club-1, American College of Surgeons
 1996-1998 Membership Committee, Association for Academic Surgery

 1998 Team Leader, Scientific Sessions Program Committee for Category 71-Myocardial Protection and Intra-Operative Management, American Heart Association

 1998-2000 Chairman, Committee on Publications and Program Chairman, Society of University Surgeons
 1998-2000 Executive Council, Society of University Surgeons
 1999-2008 Member, Advisory Editorial Board Committee
 American Association for Thoracic Surgery
 1999-P New England Surgical Society
 1999-P Thoracic Surgery Directors Association
 1999-P Cardiac Surgery Biology Club
 1999-P Executive Committee, Council on Cardiothoracic and Vascular Surgery, American Heart Association
 2001-P Massachusetts Society of Thoracic Surgeons
 2001-P Board of Directors, Massachusetts Society of Thoracic Surgeons
 2001-2003 Member, Cardiothoracic Residents Committee
 American Association for Thoracic Surgery
 2002-2006 Member, Evarts A. Graham Memorial Traveling
 American Association for Thoracic Surgery
 2002-2004 Assembly Delegate for Council on Cardiothoracic and Vascular Surgery, American Heart Association
 2002-2003 Heart Ball Planning Committee
 American Heart Association, Massachusetts Affiliate
 2002-2004 Member, Research Advisory Committee
 American Association for Thoracic Surgery
 2002-P American Medical Foundation for Peer Review and Education
 2002-P Fellow, Council on Cardiothoracic and Vascular Surgery, American Heart Association
 2003-P Member, Scientific and Government Relations Committee
 2003-P Abstract Grader, Annual Meeting
 American Association for Thoracic Surgery
 2003-P American Surgical Association
 2003 Abstract Grader, Annual Meeting, American College of Cardiology
 2003-2004 Abstract grader and Vice Chairman, Program Committee for Cardiovascular Surgery and Anesthesia, American Heart Association
 2003-2005 Chairman, Writing Group: On Pump vs Off Pump CABG, American Heart Association
 2004-2007 Member, Program Committee, Society of Thoracic Surgeons
 2004 Abstract Grader, Annual Meeting, American College of Cardiology
 2004-2009 Surgical Forum Committee, American College of Surgeons
 2004-2007 Advisory Council for Cardiothoracic Surgery, American College of Surgeons

2004-2007 Program Chairman, Scientific Sessions,
Cardiovascular Surgery and Anesthesia, American Heart Association

2004-2007 Chairman, Vivien Thomas Surgical Young Investigator Competition
Committee, American Heart Association

2004-2007 Committee on Scientific Sessions Program, American Heart Association

2004-P Chairman, NHLBI Sub-Committee
American Association for Thoracic Surgery

2004-P Member, Web Editorial Board
American Association for Thoracic Surgery

2005-2006 Director, Graham Education and Research Foundation
American Association for Thoracic Surgery

2005-2006 Chairman, Fellowship Committee
American Association for Thoracic Surgery

2005-P Florida Society of Thoracic and Cardiovascular Surgeons-Honorary Member

2005-2007 Awards & Lectures Subcommittee, American Heart Association

2006-2007 Vice President and President Elect
Massachusetts Society of Thoracic Surgeons

2006-2008 Program Director and President Elect, Cardiac Surgery Biology Club

2006-2007 Chairman, Young Investigator's Program Committee,
American Heart Association

2006-P Fellow, Cardiovascular Section, American Physiological Society

2006-2008 Expert Panel on SubClinical Atherosclerotic Disease and
Emerging Risk Factors, American Heart Association

2007-2009 Chairman, Awards & Lectures Subcommittee, American Heart Association

2007 Member, Writing Group: Post-Circulatory Arrest Syndrome,
American Heart Association

2007 NEA5 Grant Peer-Review Study Section, American Heart Association

2007-2010 Vice Chairman, Council on Cardiovascular Surgery and Anesthesia,
American Heart Association

2007-P AHA Member Benefits Task Force, American Heart Association

2007-2009 Chairman, Advisory Council for Cardiothoracic Surgery,
American College of Surgeons

2007-2008 Abstract Reviewer, Society of Thoracic Surgeons

2007-2009 President, Massachusetts Society of Thoracic Surgeons

2008 Member, Northeast Study Section. American Heart Association,
American Heart Association

2008-2011 Member, Publications Committee, Society of Thoracic Surgeons

2008-2011 Member, Research Scholarship Committee
American Association for Thoracic Surgery

2008-2010 President, Cardiac Surgery Biology Club

2009 Abstract Reviewer: American Heart Association Scientific Sessions

2009 Abstract Reviewer: Society of Thoracic Surgeons Meeting

2009-11 Chairman, American Heart Association Council on Cardiovascular Surgery
and Anesthesia

PUBLICATION LIST

ORIGINAL PEER REVIEWED ARTICLES:

1. Lingeman J, Donohue J, Madura J, Sellke FW, Angiomyolipoma: Emerging concepts in management. *Urology* 1982; 20: 566-570.
2. Sellke FW, Williams G, Donovan D, Clarke R. Management of intra-abdominal aneurysms associated with periarteritis nodosum. *J Vasc Surg* 1986; 4: 294-298.
3. Sellke FW, Debski R, Ely D, Sadri F, Inman S. Regional mapping, depletion and functional correlation of myocardial catecholamines in an isolated rat heart model. *Curr Surg* 1986; 43: 476-479.
4. Sellke FW, Williams G. Distal duodenal carcinoma and intussusception. *South Med J* 1987; 80: 644-648.
5. Sellke FW, Ely D, Sadri F, Debski R. Comparative functional preservation of cold perfusion and non-perfusion in Langendorff isolated rat hearts. *Curr Surg* 1987; 44: 300-304.
6. Sellke FW, Kelly T. Thoracic outlet syndrome. *Am J Surg* 1988; 156: 54-57.
7. Sellke FW, Loughry C, Kashkari S. Angiosarcoma of the breast: report of two long-term survivals. *Int Surg* 1988; 73:193-195.
8. Saaka M, Sellke FW, Kelly T. Primary hyperparathyroidism. *Surg Gynecol Obstr* 1988; 166: 333-337.
9. Sellke FW, Meng R, Rossi N. Cryopreserved saphenous vein homografts for femoral distal reconstruction. *J Cardiovasc Surg* 1989; 30: 838-842.
10. Sellke FW, Banitt P, Harrison D. Adrenergic regulation of the coronary microcirculation. *Surg Forum* 1989; 40: 225-227.
11. Sellke FW, Myers P, Bates J, Harrison D. Influence of vessel size on the sensitivity of coronary microvessels to nitroglycerin. *Am J Physiol* 1990; 258 (Heart-Circ Physiol 27):H515-H520.
12. *Sellke FW, Armstrong ML, Harrison D. Endothelium-dependent vascular relaxation is abnormal in the coronary microcirculation of atherosclerotic primates. *Circulation* 1990; 81: 1586-1593.
13. Sellke FW, Quillen JE, Brooks LA, Harrison DG. Endothelial modulation of the coronary vasculature in vessels perfused via mature collaterals. *Circulation* 1990; 81:1938-1947.
14. Sellke FW, Lemmer J, Vandenberg B, Ehrenhaft J. Cardiac myxomas: long term results following surgical treatment. *Ann Thorac Surg* 1990;50: 557-561.

15. Quillen JE, Sellke FW, Brooks LA, Harrison DG. Ischemia-reperfusion impairs endothelium-dependent relaxation of coronary microvessels while not affecting large coronary arteries. *Circulation* 1990; 82: 586-594.
16. Harrison DG, Sellke FW, Quillen JE. Neurohumoral regulation of coronary collateral vasomotor tone. *Basic Res Cardiol.* 1990; 85 (Suppl): 121-129.
17. Sellke FW, Lazsewski M, Johnson R, Smith R, Rossi NP. Hemangiopericytoma of the sternum. *Arch of Path Lab Med* 1991; 115: 242-244.
18. Quillen JE, Sellke FW, Harrison DG. Long term hypercholesterolemia alters the reactivity of primate coronary microvessels to platelet products. *Arteriosclerosis and Thrombosis* 1991; 11: 639-644.
19. Sellke FW, Tomanek R, Harrison DG. L-cysteine selectively enhances nitroglycerin induced relaxation in small coronary microvessels, *J Pharm Exper Ther* 1991; 258: 365-369.
20. Sellke FW, Stanford W, Rossi NP. Failure of cryopreserved saphenous vein allografts following coronary artery bypass. *J Cardiovasc Surgery* 1991; 32: 820-823.
21. Quillen JE, Sellke FW, Banitt P, Harrison DG. Effect of norepinephrine on the coronary microcirculation. *J. Vasc Research* 1992; 1: 2-7.
22. Sellke FW, Quillen JE. Altered effects of vasopressin on the coronary circulation following ischemia. *J Thorac Cardiovasc Surg* 1992; 104: 357-363.
23. Harrison DG, Kurz MA, Quillen JE, Sellke FW, Mugge A. Normal and pathophysiologic considerations of endothelial regulation of vascular tone: relevance of nitrate therapy. *Am J Cardiol* 1992; 70: 11B-17B.
24. Ely DL, Dunphy G, Dollwet H, Richter H, Sellke FW, Azodi M. 24 Hour isolated rat heart preservation using deferoxamine. *Free Radical Biology and Medicine* 1992; 12: 479-485.
25. Sellke FW, Kagaya Y, Johnson RG, Shafique T, Schoen FJ, Grossman W, Weintraub RM. Endothelial modulation of the porcine coronary microcirculation perfused via immature collaterals. *Am J Physiol.* 1992; 262: H1669-H1675.
26. Breall JA, Goldberger A, Warren S, Diver D, Sellke FW. Posterior mediastinal masses: rare causes of cardiac compression. *Am Heart J* 1992; 124: 523-526.
27. Sellke FW, Shafique T, Schoen FJ, Weintraub RM. Impaired endothelium-dependent coronary microvascular relaxation following cold potassium cardioplegia and reperfusion. *J Thoracic Cardiovasc Surgery* 1993; 105: 52-58.
28. Banitt PF, Shafique T, Weintraub RM, Johnson RG, Schoen FJ, Sellke FW. Relaxation responses of the coronary microcirculation after cardiopulmonary bypass

- and ischemic cardioplegia: implications for the treatment of postoperative coronary spasm. *J Cardiothoracic and Vascular Anesthesia* 1993; 7: 55-60.
29. Reiland-Smith JA, Weintraub RM, Sellke FW. Traumatic aortic valve injury sustained despite the deployment of an automobile air bag. *Chest* 1993; 103:1603.
 30. Shafique T, Sellke FW, Thurer RL, Weintraub RM, Johnson RG, Cardiopulmonary bypass and pulmonary thromboxane generation. *Ann Thorac Surg* 1993; 55: 724-728.
 31. Sellke FW, Shafique T, Johnson RG, Dai Hai-Bin, Banitt PF, Schoen FJ, Weintraub RM. Blood-and albumin-cardioplegia preserve endothelium-dependent microvascular responses during cardiopulmonary bypass and ischemic arrest. *Ann Thorac Surg* 1993; 55: 977-985.
 32. Shafique T, Johnson RG, Dai Hai-Bin, Weintraub RM, Sellke FW. Altered pulmonary microvascular reactivity following total cardiopulmonary bypass. *J Thorac Cardiovasc Surgery* 1993; 105:479-486.
 33. Sellke FW, Dai Hai-Bin. Responses of porcine epicardial venules to neurohumoral substances. *Cardiovasc Res* 1993; 27: 1326-1332.
 34. Sellke FW, Shafique T, Ely DL, Weintraub RM. Coronary endothelial injury following cardiopulmonary bypass and ischemic cardioplegia is mediated by oxygen-derived free radicals. *Circulation* 1993; 88 (part 2): 395-400.
 35. Sellke FW, Friedman M, Dai HB, Shafique T, Schoen FJ, Weintraub RM, Johnson RG. Mechanisms causing coronary microvascular dysfunction following ischemic cardioplegia and reperfusion. *Cardiovascular Research* 1993; 27:1925-1932.
 36. Nunez BD, Miao L, Wang Y, Nunez MM, Sellke FW, Ross JN, Susulic V, Paik GY, Carrozza JP Jr, Morgan JP. Cocaine-induced microvascular spasm in Yucatan miniature swine. In vivo and in vitro evidence of spasm. *Circulation Research* 1994; 74:281-290.
 37. Piana RN, Shafique T, Dai H-B, Sellke FW. Epicardial and endocardial coronary microvascular responses. Effects of ischemia reperfusion. *J Cardiovasc Pharmacology* 1994; 23: 539-546.
 38. Sellke FW, Wang SY, Vandermeer TJ, Fink MP. *Escherichia coli* endotoxemia alters coronary and pulmonary arteriolar responses to platelet products. *Shock* 1994; 1:279-285.
 39. Sellke FW, Friedman M, Wang SY, Piana RN, Dai H-B, Johnson RG. Adenosine and AICA-Riboside fail to enhance microvascular endothelial preservation. *Ann Thorac Surg* 1994; 58: 200-206.

40. Wang SY, VanderMeer TJ, Fink MP, Sellke FW. Uncoupling of coronary microvascular β_2 -adrenoceptors by Escherichia coli endotoxemia Surgery 1994; 116: 307-312.
41. Harada K, Grossman W, Friedman M, Edelman ER, Prasad PV, Keighley C, Manning WJ Sellke FW, Simons M. Basic fibroblast growth factor improves myocardial function in chronically ischemic porcine hearts. J Clin Invest 1994; 94:623-630.
42. Piana RN, Banitt PF, Nunez BD, Dai-H-B, Sellke FW. Coronary microvascular responses following exposure to iodinated contrast media. Investigative Radiology 1994; 29: 877-881.
43. Sellke FW, Wang SY, Friedman M, Harada K, Edelman ER, Grossman W, Simons M. Basic FGF enhances endothelium dependent relaxation of the collateral –perfused coronary microcirculation. Am J Physiol 1994; 267: H1303-H1311.
44. Park KW, Dai-H-B, Lowenstein E, Darvish A, Sellke FW. Heterogeneous vasomotor responses of rabbit coronary microvessels to isoflurane. Anesthesiology 1994; 81:1190-1197.
45. Friedman M, Johnson RG, Wang SY, Dai HB, Thurer RL, Weintraub RM, Sellke FW. Pulmonary microvascular responses to protamine and histamine. Effects of cardiopulmonary bypass. J Thoracic Cardiovasc Surg 1994; 108: 1092-1099.
46. Wang SY, Friedman M, Johnson RG, Weintraub RM, Sellke FW. Adrenergic regulation of the coronary microcirculation after extracorporeal circulation and crystalloid cardioplegia. Am J. Physiol (Heart and Circ Physiol) 1994; 267: H2462-H2470.
47. Friedman M, Sellke FW, Wang SY, Weintraub RM, Johnson RG. Parameters of pulmonary injury after total and partial cardiopulmonary bypass. Circulation 1994; 90: II-262-II-268.
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192. Liu Y, Feng J, Sodha NR, Khabbaz K, Senthilnathan V, Alper S, Sellke FW. Calcium activated potassium channels contribute to human coronary artery microvascular dysfunction after cardioplegic arrest. Circulation (Suppl II) 2007; II-324. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
193. Emani S, Ramlawi B, Sodha N, Bianchi C, Sellke FW. Increased length of hospitalization and weight gain in diabetic patients are associated with induction of HIF 1 alpha and higher serum levels of permeability-inducing growth factors: VEGF

- and HGF. (Suppl II) 2007; II-324. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
194. Clements RT, Sodha N, Feng J, Emani S, Senthilnathan V, Khabbaz K, Bianchi C, Sellke FW. Proteomic profile of differentially regulated proteins in human myocardium before and after cardiac surgery utilizing cardioplegia and cardiopulmonary bypass. (Suppl II) 2007; II-328. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
 195. Sodha NR, Boodhwani M, Clements RT, Xu S-H, Laham RL, Sellke FW. Expression of the antiangiogenic proteins angiostatin and endostatin is increased in diabetic patients and associated with impaired coronary collateral formation. (Suppl II) 2007; II-367. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
 196. Boodhwani M, Sodha NR, Kelesidis T, Xu S-H, Clements RT, Mantzoros CM, Sellke FW. High dose atorvastatin induces hypertrophy in swine: Role of adiponectin and Akt. (Suppl II) 2007; II-397. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
 197. Suuronen EJ, Vincent R, Kumarathasan P, Wong SC, Price J, Chan V, Sellke FW, Mesana TG, Ruel M. Inhibition of the effects of cell therapy by endothelial dysfunction and rescue by L-arginine supplementation in a rat hindlimb ischemia model. (Suppl II) 2007; II-398. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
 198. Sodha NR, Clements RT, Feng J, Liu Y, Bianchi C, Szabo C, Stahl GL, Sellke FW. Exogenous sulfide limits inflammation in response to myocardial ischemia-reperfusion injury. (Suppl II) 2007; II-495. Presented at the Scientific Sessions of the American Heart Association. Nov. 4-7, 2007. Orlando FL.
 199. Clements RT, Sodha NR, Boodhwani M, Feng J, Bianchi C, Sellke FW. Impaired smooth muscle regulation in Diabetes is normalized by Insulin and correlates with Insulin dependent effects on MLC phosphorylation. FASEB Journal. 2007;21:959.7. Presented at the FASEB Meeting. Washington DC, April 2007
 200. Feng J, Sellke EW, Clememts RT, Sodha NR, Liu Y, Khabbaz KR, Senthilnathan V, Alper SL, Sellke FW. Calcium-activated Potassium Channels Contribute to Cardiopulmonary Bypass-related Human Skeletal Muscle Microvascular Endothelial Dysfunction. Presented at the 3rd Annual Academic Surgical Congress. February 12-15, 2008. Huntington Beach CA.
 201. Ramlawi B, Out H, Emani S, Bianchi C, Sellke FW. Apertinin attenuates genomic expression variability following cardiac surgery. Presented at the 88th Annual Meeting of the American Association for Thoracic Surgery. San Diego CA. May 11, 2008

202. Feng J, Liu Y, Khabbaz KR, Alper SL, Sellke FW. Role of calcium-activated potassium channels in myogenic reactivity of human peripheral microvasculature. Presented at the 4th Annual Academic Surgical Congress. Fort Myers FL, February 3-6, 2009
203. Feng J, Liu Y, Khabbaz KR, Sodha NR, Sellke FW. Endothelin-1 induces human coronary microvascular contraction via endothelin-A receptor activation and protein kinase C – alpha signaling pathways. Presented at the 4th Annual Academic Surgical Congress. Fort Myers FL, February 3-6, 2009
204. Perry TE, Ramlawi B, Bianchi C, Muehlschlegel JD, Sherman SK, Body S, Sellke F. New-Onset Postoperative Atrial Fibrillation Associated with Differential Peripheral Leukocyte Expression Pathways" Presentation at the 2009 Annual ACC meeting in Orlando, March 29-March 31.

SCHORLARLY WORK PUBLISHED IN OTHER MEDIA:

1. Sellke FW. Invited internet review (Cardiovascular Research): Goodwin et al. Coronary vasoconstriction to endothelin-1 increases with age before and after ischemia and reperfusion. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1 (No. 2): 5, ctdigest.com.
2. Sellke FW, Hutter AM. Surgical Angiogenesis with bFGF and VEGF. ACCEL, Sylvan Weinberg, Editor. Vol. 31, No. 1, 1999, ctdigest.com.
3. Sellke FW. Invited internet review (Cardiovascular Research): Lopez et al. VEGF administration in chronic myocardial ischemia. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1 (No. 4): 7, ctdigest.com.
4. Sellke FW. Invited internet review (Cardiovascular Research): Expression of inducible nitric oxide synthase in human coronary atherosclerotic plaque. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1 (No. 4): 8, ctdigest.com.
5. Sellke FW. Update in techniques of myocardial revascularization: Therapeutic angiogenesis. First Virtual Congress of Cardiology. Argentina.
6. Sellke FW. Invited internet review (Ann Thorac Surg): Avoiding cardiopulmonary bypass in multivessel CABG reduces cytokine response and myocardial injury. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1: 6, www.ctdigest.com
7. Sellke FW. Invited internet review (Ann Surg): Organ preservation solutions increase endothelial permeability and promote loss of junctional proteins. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1: 7, www.ctdigest.com

8. Sellke FW. Invited internet review (Circulation): Angiogenesis gene therapy. Phase I assessment of direct intramyocardial administration of an adenoviral vector expressing VEGF 121 cDNA to individuals with clinically significant severe coronary artery disease. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1: 8, www.ctdigest.com
9. Sellke FW. Invited internet review (Cardiovascular Research): Adenoviral-mediated gene transfer induces sustained pericardial VEGF expression in dogs: effects on myocardial angiogenesis. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 1: 9, www.ctdigest.com
10. Sellke FW. Invited internet review (Cardiovascular Research): Transmyocardial laser revascularization limits in vivo adenoviral-mediated gene transfer in porcine myocardium. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, www.ctdigest.com
11. Sellke FW. Invited internet review (Cardiovascular Research): Protection of hearts from reperfusion injury by propofol is associated with inhibition of the mitochondrial permeability transition. Internet Cardiothoracic Digest. CME Network, Southampton, NY, A Wechsler, Ed. 1999, 2: 2, www.ctdigest.com
12. Sellke FW. Invited internet review (Cardiovascular Research): Perioperative myocardial tissue injury and the release of inflammatory mediators in coronary artery bypass graft patients. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2000, 2: 3, www.ctdigest.com
13. Sellke FW. Invited internet review (Cardiovascular Research): Preconditioning decreases Bax expression, PMN accumulation and apoptosis in reperfused rat heart. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2000, 2: 5, www.ctdigest.com
14. Sellke FW. Invited internet review (Ann Thorac Surg): Angiogenesis in ischemic human myocardium: Clinical results after 3 years. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2000, 2: 7, www.ctdigest.com
15. Sellke FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): An anti-inflammatory property of aprotinin detected at the level of leukocyte extravasation. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2000, 2: 9, www.ctdigest.com
16. Sellke FW. Invited internet review (Annals of Thoracic Surgery): Effect of induction and reperfusion with warm substrate-enriched cardioplegia on ventricular function. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2001, 2: 12, www.ctdigest.com

17. Sellke FW, Harrison DG. The coronary microcirculation: Physiology. 2001 UpToDate, www.uptodate.com
18. Sellke FW, Harrison DG. The coronary microcirculation in disease states. 2001 UpToDate, www.uptodate.com
19. Sellke FW and Cohn WE. Invited internet review (Annals of Thoracic Surgery): Is there a relationship between cognitive dysfunction and systemic inflammatory response after cardiopulmonary bypass? Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2001, 3: 5, www.ctdigest.com
20. Sellke FW. Invited internet review (Cardiovascular Research): Post-ischemic PKC inhibition impairs myocardial calcium handling and increases contractile protein calcium sensitivity. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2001, 3: 7, www.ctdigest.com
21. Sellke FW and Cohn WE. Invited internet review (Ann Thorac Surg): Influence of diabetes on mortality and morbidity: Off-pump coronary artery bypass grafting versus coronary artery bypass grafting with cardiopulmonary bypass. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2001: 3: 9, www.ctdigest.com
22. Sellke FW. Invited internet review (Ann Thorac Surg): Relation of intraoperative flow measurement with postoperative quantitative angiographic assessment of coronary artery bypass grafting. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2001: 3: 11, www.ctdigest.com
23. Sellke FW and Cohn WE. Invited internet review (Ann Thorac Surg): Does ministernotomy improve postoperative outcome in aortic valve operation: A prospective randomized study. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com
24. Sellke FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): The early clinical and angiographic outcome of sequential coronary artery bypass grafting with the off-pump technique. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com
25. Sellke FW. Invited internet review (Annals of Thoracic Surgery): Therapeutic angiogenesis induced by local autologous bone marrow cell implantation. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com
26. Sellke FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): The Insulin Cardioplegia Trial: Myocardial protection for urgent coronary artery bypass grafting. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com

27. Sellke FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): Normothermia does not improve postoperative hemostasis nor does it reduce inflammatory activation in patients undergoing primary isolated coronary artery bypass. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com
28. Sellke FW. Invited internet review (Annals of Thoracic Surgery): . Duraflo II heparin bonding does not attenuate cytokine release or improve pulmonary function.. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com
29. Sellke FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): Does Off-Pump Coronary Surgery Reduce Morbidity and Mortality? Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2002: www.ctdigest.com
30. Sellke, FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): Therapeutic angiogenesis in the ischemic canine heart induced by myocardial injection of naked complementary DNA plasmid encoding hepatocyte growth factor. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2003: www.ctdigest.com
31. Sellke, FW. Invited internet review (Journal of Thoracic and Cardiovascular Surgery): Vacuum-assisted closure as a treatment modality for infections after cardiac surgery. Internet Cardiothoracic Digest. CME Network, Southampton, NY, L Cohn, Ed. 2003: www.ctdigest.com
32. Khan TA, Sellke FW, Laham RJ. Gene Therapy Progress and Prospects: Therapeutic Angiogenesis for Limb and Myocardial Ischemia. Nature View, www.nature.com ; Feb 24, 2003
33. Sellke FW. The coronary microcirculation in disease states. 2003, UpToDate, <http://www.uptodate.com>
34. Sellke FW. The coronary microcirculation: Physiology. 2003, UpToDate, <http://www.uptodate.com>
35. Sellke FW, DiMaio JM. On-pump vs off-pump coronary artery surgery. Harrison's Online 2005. <http://www3.accessmedicine.com>
36. Sellke FW. The coronary microcirculation. 2005, UpToDate, <http://www.uptodate.com>

INVITED PRESENTATIONS:

Regional Contributions

- 1990 Cardiology Grand Rounds, Beth Israel Hospital. "Alterations of endothelium-dependent coronary microvascular relaxation in atherosclerosis"
- 1991 Surgical Grand Rounds, Beth Israel Hospital. "Changes in microvascular regulation in atherosclerosis"
- 1992 Anesthesia and Critical Care Grand Rounds, Beth Israel Hospital. "Thoracic trauma"
- 1992 Primary Care Grand Rounds, Beth Israel Hospital. "Evaluation of the solitary pulmonary nodule."
- 1992 Cardiology Grand Rounds, Beth Israel Hospital. "Alterations of coronary microvascular responses during cardiopulmonary bypass and cardiac surgery"
- 1993 Beth Israel Hospital Emergency Unit Conference. "Thoracic trauma"
- 1993 Cardiac surgery research conference. Massachusetts General Hospital. "Altered microvascular reactivity during cardiac surgery"
- 1994 Surgical Basic Science Lecture Series. Beth Israel Hospital. "Cardiac electrophysiology and chronic heart failure"
- 1994 Vascular Biology Group Meeting. Beth Israel Hospital. "Changes in coronary vascular responses after cardioplegia and cardiac surgery"
- 1994 Vascular Biology Group Meeting. Beth Israel Hospital. "Microvascular endothelial responses in angiogenesis and ischemia"
- 1994 Featured Lecture. American Heart Association, Massachusetts affiliate staff workshop. "Basic fibroblast growth factor improves myocardial and vascular function in chronically ischemic hearts" Framingham MA.
- 1994 Cardiovascular Research Seminar. St. Elizabeth's Hospital "Alterations in Coronary and Pulmonary Microvascular responses during Cardiac Surgery". Brighton MA.
- 1995 Clinical pathological conference. Beth Israel Hospital. "Surgical treatment of cardiac tumors"
- 1996 Cardiology Grand Rounds, Beth Israel Hospital, "Changes in regulation of vascular tone during cardiac surgery"
- 1996 Moderator, Harvard Academic Cardiothoracic Surgical Conference. Beth Israel Hospital

- 1996 Surgical Basic Science Lecture Series, "Coronary Artery Disease"
Beth Israel Hospital
- 1997 Division of cardiothoracic surgery research conference. Beth Israel Deaconess Medical Center, "VEGF in angiogenesis"
- 1997 Surgical Grand Rounds. West Roxbury Veteran's Administration Medical Center "Growth factor-induced angiogenesis for the treatment of patients with coronary artery disease", West Roxbury MA
- 1998 Cardiac Surgical Grand Rounds. Brigham and Women's Hospital. "Angiogenesis in the heart: Implication for the treatment of patients with inoperable coronary artery disease", Boston MA
- 1999 Pathology Research Seminar, Beth Israel Deaconess Medical Center "Coronary microcirculation and angiogenesis", Boston, MA
- 1999 New England Baptist Hospital, "Therapeutic coronary angiogenesis" Boston, MA
- 2000 Surgical Grand Rounds, Beth Israel Deaconess Medical Center, "Therapeutic coronary angiogenesis", Boston, MA
- 2000 Cardiothoracic Surgery Teaching conference, Beth Israel Deaconess Medical Center, "Vascular changes after heart surgery", Boston, MA
- 2000 Surgery Grand Rounds, Mt. Auburn Hospital, "Therapeutic angiogenesis for the treatment of inoperable coronary artery disease", Cambridge MA
- 2000 Invited Lecturer: Baystate Medical Center, "Therapeutic angiogenesis for the treatment of inoperable coronary artery disease", Springfield MA
- 2000 Invited Lecturer: Medical Grand Rounds, "Therapeutic angiogenesis for the treatment of inoperable coronary artery disease", Our Lady of Fatima Hospital, Providence RI
- 2001 Invited Speaker: Scientific Symposium, Basic Research in the BIDMC Department of Surgery, Boston MA
- 2001 Division of cardiothoracic teaching conference. Beth Israel Deaconess Medical Center, "Update in therapeutic coronary angiogenesis"
- 2001 Surgery Grand Rounds. Beth Israel Deaconess Medical Center. "Therapeutic coronary angiogenesis: Fad or Real Therapy?"
- 2002 Organizer and Moderator: Harvard Combined Cardiothoracic Surgical Conference. BIDMC, March 13, 2002.

- 2002 Invited Speaker: Therapeutic angiogenesis for inoperable coronary artery disease. The Northeast Cardiothoracic Surgical Society, Effingham, NH, Oct 31-Nov 1, 2002.
- 2003 Organizer and Moderator: Harvard Combined Cardiothoracic Surgical Conference. BIDMC, March 26, 2003.
- 2003 BIDMC Vascular Biology Lecture Series, Therapeutic angiogenesis using protein growth factors: Can we enhance the response?, June 2003
- 2003 BIDMC Cardiology Grand Rounds, "Current status of surgical coronary angiogenesis?" September 2003
- 2003 Invited Speaker, Fifth Annual Boston Angiogenesis Meeting. Massachusetts General Hospital. November 14, 2003
- 2003 Invited Speaker, "What's new in cardiac surgery" Kirkbrae Country Club, Lincoln, Rhode Island, November, 2003
- 2004 BIDMC Surgery Grand Rounds, "Clinical Crossroads: CABG vs stenting for left main coronary artery disease", January 2004
- 2004 Invited Speaker, Bayer Pharmaceuticals, West Haven CT, "Effects of Aprotinin on ischemic injury and vascular thrombosis". March 4, 2004
- 2004 Organizer and Moderator: Harvard Combined Cardiothoracic Surgical Conference. BIDMC, March 25, 2004
- 2004 Speaker: Effects of aprotinin on myocardial protection and postoperative bleeding. Weekly BIDMC cardiothoracic surgery teaching conference. May 19, 2004.
- 2004 Speaker: Clinical Cardiac Anatomy, Clinical Anatomy Course, Harvard Medical School, August, 2004
- 2004 Speaker: "Myocardial ischemia reperfusion injury". Presented at The protected heart: A one day symposium on myocardial preservation. Brigham & Women's Hospital, Massachusetts Association of Perfusionists. November 11, 2004.
- 2005 Speaker: "Surgical Cardiac Anatomy", Weekly cardiothoracic surgery didactic lecture, BIDMC
- 2005 Speaker: "Modulation of growth factor induced angiogenesis" BIDMC Center for Vascular Biology Research Retreat. Feb 5, 2005
- 2005 Speaker: "Advances in Therapeutic Coronary Angiogenesis" Monthly Surgical Research Symposium. BIDMC, February 7, 2005
- 2005 Organizer and Moderator, Harvard Combined Cardiothoracic Surgery Conference, BIDMC, March 23, 2005

- 2005 Speaker: "Strategies for myocardial protection", Weekly cardiothoracic surgery didactic lecture, BIDMC, April 2005
- 2005 Speaker: "SIRS: Pars receptors, adherens junctions and their interaction" Boston, MA, April 2005.
- 2005 Speaker: Recent advances in surgical angiogenic therapy and regenerative strategies. Harvard Clinical Research Institute, September 22, 2005
- 2005 Invited Speaker: Platelet resistance and bleeding after cardiac surgery. Northeast cardiothoracic surgical society meeting, East Madison NH, October 27-29, 2005
- 2006 Moderator: BIDMC Vascular Biology Center Annual meeting. Jan 27, 2006
- 2006 Invited Speaker: Vascular Biology Summer Seminar Series. Current State of Coronary Angiogenesis, BIDMC, July 6, 2006
- 2006 Speaker: Cardiothoracic Surgery Weekly Lecture: Myocardial Protection
- 2006 Lecturer: Advanced Clinical Anatomy Course. Harvard Medical School. Clinical Cardiac Anatomy
- 2006 Invited Speaker: International Surgical Group Meeting, Harvard Medical School Oct. 4, 2006
- 2007 Speaker: Clinical Cardiac Anatomy, Clinical Anatomy Course, Harvard Medical School, August 9, 2007
- 2007 Speaker: Surgery Grand Rounds. "Regenerative therapies for the treatment of heart disease". Mount Auburn Hospital. Cambridge MA September 4, 2007.
- 2007 Speaker: "Regenerative Therapies for the Treatment of Cardiac Disease: Where Are We and Where Are We Going?" Clowes Visiting Professor PI Research Forum. BIDMC Nov 13, 2007
- 2007 Speaker: Updates in surgical research, BIDMC. "Regenerative therapies for the treatment of cardiac disease. November 26, 2007
- 2008 Invited Speaker: Cardiovascular Institute Grant Rounds: Coronary artery bypass surgery: What's new? BIDMC. Jan 25, 2008
- 2008 Invited Speaker: BIDMC Center for Vascular Biology Research Retreat. Angiogenesis for coronary artery disease: Why it doesn't work. February 15, 2008
- 2008 BIDMC Anesthesia Journal Club: Off pump vs on Pump CABG: What is the real story? March 19, 2008

- 2008 Invited Speaker. 2008 Swine Biomedical Conference. San Diego CA. April 2-3, 2008
- 2008 Invited Speaker: "Negotiating your first position as a laboratory investigator". Center for Faculty Development. BIDMC/Harvard. Cambridge MA. May 9, 2008
- 2008 Keynote Speaker: Regenerative therapies for the treatment of coronary disease: Where are we and what is the future? Cardiothoracic Surgery Research Day. Massachusetts General Hospital, Boston MA. June 20, 2008
- 2008 Invited Speaker: Cardiothoracic Core Curriculum. BIDMC. Cardiac Preservation. August 13, 2008
- 2008 Speaker: Clinical Cardiac Anatomy, Advances Clinical Anatomy Course, Harvard Medical School, August 14, 2008
- 2008 Panel Discussant: 5th Annual Perioperative and Critical Care Echocardiography and Echo Board Review. Fairmont Copley Plaza Hotel. Boston MA. September 4-7, 2008
- 2008 Invited Speaker: Surgical Grand Rounds BIDMC, Regenerative therapies for the treatment of heart disease. Where are we and where are we going? December 3, 2008
- 2009 Invited speaker: Brown University/Lifespan Cardiopulmonary Research Conference. Regenerative therapies for the treatment of heart disease. January 12, 2009.
- 2009 Speaker: Cardiology Grand Rounds. Rhode Island Hospital. CABG-2009: What's New? Jan 30, 2009.
- 2009 Invited Speaker: Cardiology Grand Rounds. Rhode Island Hospital. CABG-2009: What's New? Jan 30, 2009.
- 2009 Invited Speaker: Cardiology Grand Rounds. The Miriam Hospital. CABG-2009: What's New? Feb 13, 2009.
- 2009 Invited Speaker: Brown University/Lifespan Surgery Grand Rounds. Rhode Island Hospital. Regenerative Therapies for the Treatment of Cardiac Disease. Feb 25, 2009
- 2009 Invited Speaker: Cardiovascular Research Center Lecture Series. Myocardial Ischemia Reperfusion Injury: Recent Advances. Feb 25, 2009

2009 Invited Speaker: BIDMC Center for vascular biology research retreat. June 17-18, 2009. North Falmouth MA.

National and International Contributions

- 1993 Moderator, New techniques in myocardial protection, American Heart Association Meeting, Atlanta GA
- 1994 Invited Lecturer, Anesthesiology research conference, Johns Hopkins Hospital. Baltimore MD
- 1994 Invited Lecturer, Department de Chirurgie Cardio-Vasculaire- Hospital Broussais, Paris, France
- 1994 Lecturer, Merck Research Conference, Blue Bell PA
- 1994 Lecturer, Cardiology and Cardiac Surgery Grand Rounds. Philadelphia Heart Institute, Presbyterian Medical Center, Philadelphia PA
- 1994 Moderator, Coronary Collateral Circulation, American Heart Association Scientific Sessions, Dallas TX
- 1995 Invited Lecturer, New Zealand Regional Scientific Meeting, Cardiac Society of Australia and New Zealand, Dunedin, New Zealand
- 1995 Moderator, Molecular mechanisms of myocardial protection. American Heart Association Scientific Sessions, Anaheim CA
- 1996 Invited lecturer, 41st Alfred Benzon Symposium, Danish Royal Academy of Arts and Science, Copenhagen, Denmark
- 1997 Invited Lecturer, American Heart Association Cardiovascular Seminar, Orlando FL
- 1997 Moderator, Myocardial Protection, American Heart Association Scientific Sessions, Orlando FL
- 1997 Invited Lecturer, 1st International Congress on Coronary Artery Disease, Prague, Czech Republic
- 1998 Instructor in the proper surgical implantation of heparin alginate devices, Montefiore Hospital. Albert Einstein School of Medicine, New York NY
- 1998 Moderator, Myocardial Protection, American Heart Association Scientific Sessions, Dallas TX
- 1998 Invited Lecturer, American Heart Association Cardiovascular Seminar, Dallas TX

- 1998 Invited Lecturer. Cardiothoracic Surgery Grand Rounds, University of Iowa College of Medicine, Angiogenesis in the heart, Iowa City IA
- 1999 Invited Lecturer: Cardiovascular Grand Rounds. Hospital das Clinicas da Faculdade de medicina da Universidade de Sao Paulo, Brazil.
- 1999 Invited Lecturer: Department of Pharmacology. Universidade de Sao Paulo, Brazil.
- 1999 Invited Lecturer: NO in Brazil: Basic and Clinical Aspects of Nitric Oxide. Foz do Iguacu, Brazil.
- 1999 Invited Lecturer: Biological Institute, University of Brazilia, Brazil.
- 1999 Moderator, University Surgeons Resident's Conference. New Orleans.
- 1999 Invited Lecturer: Carolina Heart Institute. Charlotte, NC.
- 1999 Invited Lecturer: University of Iowa College of Medicine
- 1999 Invited Lecturer: American College of Surgeons Surgical Biology Club-1
- 1999 Invited Lecturer: Angiogenesis Foundation Consensus Meeting
- 1999 Moderator, University Surgeons Resident's Conference. Toronto.
- 1999 Moderator, Society of University Surgeons, Toronto
- 1999 Invited Lecturer: Texas A&M University. College Station, TX.
- 1999 Invited Lecturer: Bethesda Hospital, Cincinnati, OH
- 1999 Invited Lecturer: European Society of Surgical Research, Malmo, Sweden
- 1999 Moderator: European Society of Surgical Research, Malmo, Sweden
- 1999 Moderator: Basic Science in Myocardial Protection, American Heart Association Meeting, New Orleans
- 2000 Invited Lecturer: Nitric oxide and the human coronary microcirculation, American Heart Association Meeting, New Orleans
- 2000 Moderator: Cardiac Research, Society of Thoracic Surgeons Meeting, New Orleans LA
- 2001 Moderator, University Surgeons Resident's Conference. Chicago.
- 2001 Invited Lecturer: Japanese Surgical Society, Sendai, Japan

- 2001 Invited Lecturer: Wabash College, Crawfordsville IN
- 2001 Invited Discussant and Participant: Monitoring and improving patient safety during and following cardiac surgery. San Diego CA
- 2001 Invited Lecturer, University of Manaus, Manaus Brazil
- 2001 Invited Lecturer (2): University of Toronto, Ontario
- 2001 Invited Lecturer: Carolina Heart Institute. Charlotte, NC
- 2001 Invited Lecturer: Angiogenesis using protein growth factors, American Heart Association Meeting, Anaheim CA
- 2001 Invited Lecturer: Mechanisms of angiogenesis and arteriogenesis, American Heart Association Meeting, Anaheim CA
- 2001 Moderator: Basic Science in Myocardial Protection, American Heart Association Meeting, Anaheim CA
- 2002 Invited Lecturer: Surgical Angiogenesis for the treatment of coronary artery disease, Dartmouth Medical School, Hanover NH
- 2002 Invited Lecturer: "The future of cardiac surgery: panic or opportunity", Society of University Surgeons, Honolulu, Hawaii
- 2002 Moderator: Cardiac Surgery Forum Session, American Association for Thoracic Surgery Meeting, Washington DC
- 2002 Invited Lecturer: Third International Symposium : Myocardial Protection from Surgical Ischemia Reperfusion Injury "Treatment of the Unrevascularizable Myocardial Segment: Angiogenesis", Asheville, NC
- 2002 Moderator: Third International Symposium: Myocardial Protection from Surgical Ischemia Reperfusion Injury, "Use of molecular and cellular therapy in myocardial and vascular protection: What is clinically applicable?" Asheville, NC
- 2002 Invited Lecturer: Therapeutic coronary angiogenesis using FGF-2 protein. 8th World Congress on Heart Failure. Washington DC
- 2002 Invited Lecturer: Therapeutic coronary angiogenesis: Does it have a future? American College of Surgery, Surgery Biology Club I, San Francisco CA
- 2002 Moderator: Surgical Forum, American College of Surgeons, Cardiothoracic Surgery I: Ventricular Remodeling/Myocardial Protection.

- 2002 Moderator: Novel approaches to surgical myocardial revascularization. American Heart Association Scientific Sessions. Chicago, IL.
- 2002 Moderator: Novel methods of myocardial revascularization. American Heart Association Scientific Sessions. Chicago, IL.
- 2002 Invited Dicussant: Special Session XII: Late-breaking clinical trials. American Heart Association Scientific Sessions. Chicago, IL.
- 2004 Invited speaker: Thoracic Surgery Directors Association Meeting, San Diego, CA
- 2003 Invited Lecturer: Ottawa Heart Institute, Ottawa, Ontario Canada
- 2003 Invited Lecturer: "The peer review process in medical publishing-a reviewer's perspective". AATS Symposium "Developing the academic thoracic surgeon"
- 2003 Invited Lecturer: "Vascular protection after cardiac surgery: Does it matter?" International Society for Heart Research, Mystic CT, June 2003
- 2003 Invited Lecturer: "Therapeutic angiogenesis using proein growth factors" International Society for Heart Research, Mystic CT, June 2003
- 2003 Invited Speaker: International Symposium on Atherosclerotic Vascular Disease, Sendai, Japan, October 2003
- 2003 Invited Speaker and Session Moderator: "Therapeutic angiogenesis using proein growth factors", Cardiac BioAssist Association- French Institute of Health and Medical Research, Paris, France, October 2003
- 2003 Moderator: Molecular basis of myocardial protection. American Heart Association Scientific Sessions. Orlando, FL., Nov 2003
- 2003 Invited Lecturer: "Therapeutic angiogenesis using proein growth factors". American Heart Association Scientific Sessions. Orlando, FL., Nov 2003
- 2004 Invited Speaker: (1) "Therapeutic angiogenesis for coronary artery disease: Can we improve the results?" , and (2) "The role of the cardiac surgeon in the 21st century", Cardiology Update 2004: A patient management approach. Absecon, NJ, March 27-28, 2004
- 2004 Invited Speaker: "Heart Surgery in the 21st century: Time for Panic or Opportunity?" Presented at the TSDA Coordinators meeting at the American Association for Thoracic Surgery. Toronto Canada, April 23, 2004.
- 2004 Invited Speaker: "Strategies for attenuating myocardial ischemia reperfusion injury". Symposium on "Serine Proteases in Cardiothoracic Surgery: From Mechanisms to Outcomes", Toronto, Canada, April 24, 2004

- 2004 Invited Speaker, "Angiogenesis and Tissue Engineered Prostheses", Moderator, and Participant: Future Directions in Cardiac Surgery, National Institutes of Health, National Heart, Lung and Blood Institute Working Group, Old Town Alexandria, VA, May 7-8, 2004
- 2004 Invited Speaker: "Strategies for attenuating myocardial ischemia reperfusion injury" and "Assessment of operative risk during cardiac surgery". Bayer Corporation, Washington DC, June 25-27, 2004
- 2004 Invited speaker: "Therapeutic coronary angiogenesis: Can we improve the results?" Presented at the 45th Annual Meeting of the Japanese College of Angiology, Sapporo Japan October 28-30, 2004
- 2004 Invited speaker: "Regulation of coronary perfusion: The role of serotonin and other products of platelet activation?" Presented at the 45th Annual Meeting of the Japanese College of Angiology, Sapporo Japan October 28-30, 2004
- 2004 Invited Speaker: Serine protease inhibition and ischemia reperfusion injury. Presented at the symposium: "Ischemic disease and neurologic risk in cardiac patients: Insight from CABG surgery". American Heart Association Scientific Sessions, New Orleans, November 7, 2004
- 2004 Invited Speaker: Resuscitation Science Symposium: "Dynamic changes in inflammation during cardiac surgery" American Heart Association, November 5-6, 2004
- 2004 Moderator: Vivien Thomas Young Investigator Competition, American Heart Association Scientific Sessions, New Orleans, November 7-10, 2004
- 2004 Speaker: Meet the Experts: Treatment of Ischemic Mitral Regurgitation. American Heart Association Scientific Sessions, New Orleans, November 7-10, 2004
- 2005 Moderator: Society of Thoracic Surgeons Meeting, Tampa FL January 22-26, 2005
- 2005 Case presentation. Anastasios Konstantakos. Adult isolated partial anomalous pulmonary venous drainage. Clinical presentation and surgical treatment. Presented at the Society of Thoracic Surgeons Meeting. Tampa FL, Jan 22-26, 2005
- 2005 Moderator: Society of Univesity Surgeons Meeting, Nashville TN,
- 2005 Invited Speaker: Florida Society for Thoracic and Cardiovascular Surgery, Tampa FL.
- 2005 Invited Speaker: Redo cardiac surgery in adults. "Strategies for myocardial protection" San Francisco, CA

- 2005 Moderator: Cardiac Surgery Forum Session. American Association for Thoracic Surgery Meeting, San Francisco CA.
- 2005 Invited Speaker: Grant Writing Symposium, "The study section process" American Association for Thoracic Surgery Meeting, San Francisco CA.
- 2005 Moderator: Coronary angiogenesis: Molecular Mechanisms, 27th Annual Meeting of the International Society for Heart Research, New Orleans, May 12-15, 2005
- 2005 Invited Speaker: "Current state of coronary angiogenesis using protein growth factors", 27th Annual Meeting of the International Society for Heart Research, New Orleans, May 12-15, 2005
- 2005 Invited Speaker: "SIRS: platelet activated receptors, endothelial cellular junctions and their clinical relevance", Inovative strategies to improve open heart surgery outcomes. Baltimore, May 15, 2005
- 2005 Invited Speaker: "Ischemic reperfusion injury and organ preservation", Controlling inflammation and exploring anti-inflammatory strategies in CABG surgery, Baltimore, May 15, 2005
- 2005 Invited Speaker: "Angiogenesis for the treatment of inoperable coronary disease: The future". 2005 Outcomes: The Key West Meeting. May 18-21, 2005
- 2005 Session Moderator: 2005 Outcomes: The Key West Meeting. May 18-21, 2005
- 2005 Invited Speaker: SIRS: Platelet activated receptors, endothelial cellular junctions and their clinical relevance. Evanston IL June 24-26, 2005
- 2005 Invited Speaker: Thrombin in ischemia reperfusion injury: Role of anti-thrombin. Antithrombin clinical trials meeting. Miami FL September 2-4, 2005
- 2005 Invited Speaker: Yale / St. Raphael's Hospital Cardiothoracic Surgery Journal Club, New Haven, CT, September 7, 2005
- 2005 Invited Speaker: East Carolina University Broady School of Medicine, Surgical Grand Rounds, " Modulation of ischemia-reperfusion injury during cardiac surgery", Greenville NC
- 2005 Invited Speaker: Indiana University School of Medicine Cardiology Grand Rounds, Indianapolis IN. "Advances in angiogenesis therapy for the treatment of coronary artery disease."
- 2005 Invited Speaker: SIRS: Platelet activated receptors, endothelial cellular junctions and their clinical relevance. San Francisco CA, October 7-9, 2005
- 2005 Invited speaker: Grant Writing Symposium for New Investigators, American College of Surgeon Clinical Congress, San Francisco CA, Oct 16-20, 2005

- 2005 Moderator: 3rd International Cardiac Bioassist Meeting. Session on Tissue Engineering. Fort Collins CO. November 8-10, 2005
- 2005 Invited Speaker: The future of coronary growth factor-induced angiogenesis for the treatment of coronary artery disease. 3rd International Cardiac Bioassist Meeting. Fort Collins CO. November 8-10, 2005
- 2005 Invited Speaker: Plenary session, Discussion of Late-breaking clinical trials (Prevent IV), 2005 Scientific Sessions of the American Heart Association, November 13-16, 2005, Dallas TX.
- 2005 Invited Speaker: Treatment of left main coronary artery disease: The surgical Approach. Presented at the 2005 Scientific Sessions of the American Heart Association, November 13-16, 2005, Dallas TX.
- 2005 Moderator: Vivien Thomas Young Surgical Investigator Award Competition. 2005 Scientific Sessions of the American Heart Association, November 13-16, 2005, Dallas TX.
- 2005 Moderator: Meet the Experts Luncheon Session. The future of cardiac surgery. Scientific Sessions of the American Heart Association, November 13-16, 2005, Dallas TX.
- 2005 Invited Speaker: Improving outcomes in open heart surgery. "Organ protection in cardiac surgery", Boston MA Nov 19, 2005
- 2005 Invited Speaker: Balancing quality and costs: Pharmacotherapeutic strategies to improve outcomes. American Society of Health-systems pharmacists Midyear clinical meeting. Las Vegas NV. December 5, 2005
- 2006 Invited Speaker: "Balancing quality and costs during cardiac surgery". Jonathon Club, Los Angeles CA. December 13, 2005
- 2005 Invited Speaker: Cardiothoracic Surgery Grand Rounds. "Systemic inflammatory response and organ protection during cardiac surgery." UCLA. Los Angeles CA. December 14, 2005.
- 2005 Invited Speaker: "Systemic inflammatory response and organ protection during cardiac surgery." Edna Winery. San Luis Obispo, CA. December 14, 2005.
- 2006 Moderator: Cardiac Surgery Session. Society of Thoracic Surgeons Annual Meeting. Chicago IL, Jan 28-Feb 1, 2006
- 2006 Moderator: Breakfast Session Case Presentations. Society of Thoracic Surgeons Annual Meeting. Chicago IL, Jan 28-Feb 1, 2006

- 2006 Invited Speaker: "Systemic inflammatory response and organ protection during cardiac surgery". Midwest Stock Exchange. Chicago IL, Jan 28, 2006
- 2006 Moderator: 39th Annual Meeting of the Society of University Surgeons. Oral Session on Cardiothoracic Surgery. San Diego CA. February 7-11, 2006
- 2006 Moderator: 39th Annual Meeting of the Society of University Surgeons. Moderated Poster Session. San Diego, CA. February 7-11, 2006
- 2006 Invited Speaker: Cardiothoracic Surgery Grand Rounds. Ohio State University Medical Center. February 16, 2006
- 2006 Invited Speaker: Improving Outcomes in Open Heart Surgery. Organ protection in cardiac surgery. Society of Cardiac Anesthesia Meeting, Whistler British Columbia, March 12, 2006
- 2006 Invited Speaker: "SIRS and myocardial ischemia reperfusion injury". Innovative strategies to improve open heart surgery outcomes. San Antonio TX, Mar 31-April 2, 2006
- 2006 Invited Speaker: "Pharmacologic strategies to reduce bleeding after cardiac surgery". St John's Mercy Hospital, St Louis MO.
- 2006 Invited Speaker: "SIRS and organ protection during cardiac surgery" St Louis MO.
- 2006 Invited Speaker: Surgery Grand Rounds. "The systemic inflammatory response and organ protection during cardiac surgery". University of North Carolina, Chapel Hill NC, June 21, 2006
- 2006 Invited Speaker: The systemic inflammatory response and organ protection during cardiac surgery" Myrtle Beach Grand Strand Heart Center, June 21, 2006
- 2006 Invited Speaker: The systemic inflammatory response and organ protection during cardiac surgery" New Hanover Hospital, Wilmington NC, June 22, 2006
- 2006 Invited Speaker: Surgery Grand Rounds. "The systemic inflammatory response and organ protection during cardiac surgery". University of Arkansas School of Medicine. Little Rock AR. June 27, 2006
- 2006 Invited Speaker: Balancing quality and costs: Pharmacotherapeutic strategies to improve outcomes. Little Rock AR, June 27, 2006
- 2006 Invited Speaker: Balancing quality and costs: Pharmacotherapeutic strategies to improve outcomes. Fayetteville AR, June 28, 2006
- 2006 Invited Speaker: "Collateral Development. Cell-based therapy for angiogenesis". 3rd Annual Symposium of the American Heart Association Council on Basic

- Cardiovascular Sciences- Translation of Basic Insights into Clinical Practice. July 31-Aug 3, 2006. Keystone CO
- 2006 Invited Speaker. "Novel Approaches to Protect the Heart and Body During Cardiac Surgery". Michigan Society of Thoracic and Cardiovascular Surgery. Aug 3-5, 2006. Bellaire MI.
- 2006 Invited Speaker: "Surgical Approach to high risk cardiac surgical cases: Limiting myocardial ischemia reperfusion injury." 10th international congress of cardiothoracic and vascular anesthesia. Prague, Czech Republic, August 27-30, 2006
- 2006 Invited Speaker: Inflammatory mechanisms. Best Practices in Cardiac Surgery. Winston-Salem NC, Sept 29-Oct 1, 2006.
- 2006 Invited Speaker: Grant Writing Symposium, American College of Surgeons Meeting. Chicago IL. October 8-12, 2006
- 2006 Lecturer: "Why therapeutic angiogenesis doesn't work in patients." Surgical Biology Club. American College of Surgeons Meeting. Chicago IL. October 8, 2006
- 2006 Invited Lecturer: "Vascular changes after cardiopulmonary bypass and ischemic cardiac arrest: Interactions between nitric oxide synthase, cyclooxygenase, kinase pathways and growth factors." Semmelweis Symposium: Nitric oxide and nitrosative stress in the cardiovascular system. Budapest, Hungary. October 29-31, 2006
- 2006 Invited Speaker: Trial Design and Rationale. Novo Nordisk Trial 1610. Phoenix AZ, November 7, 2006.
- 2006 Moderator: Vivien Thomas Young Investigator Competition. American Heart Association Scientific Sessions, November 12-15, 2006. Chicago IL
- 2006 Moderator: Controversies in the surgical treatment of vascular disease. American Heart Association Scientific Sessions, November 12-15, 2006. Chicago IL
- 2006 Invited Speaker: Cardiology Grand Rounds. "Therapeutic coronary angiogenesis: Why it doesn't work in patients." Medical University of South Carolina, Charleston SC, December 7, 2006
- 2007 Moderator: Surgical Forum II: Adult cardiac II. Society of Thoracic Surgeons. January 28-30, 2007, San Diego CA
- 2007 Moderator: Focused discussion group on angiogenesis and vascular biology. Society of University Surgeons, Phoenix AZ, Feb 7-9, 2007
- 2007 Invited Speaker: Trasyolol: US clinical perspective. Bayer Regional Advisory Board Meeting, Toronto ON, Feb 23, 2007
- 2007 Invited Speaker: AATS Grantsmanship Workshop, Bethesda MD, March 2, 2007

- 2007 Moderator: Mock Study Section, AATS Grantsmanship Workshop, Bethesda MD, March 2, 2007
- 2007 Moderator and speaker: Myocardial ischemia reperfusion injury. PAR-1 Expert Summit Meeting: Antithrombosis, Inflammation, and Ischemia-reperfusion injury. Annenberg Center for Health Sciences, Palm Springs, CA April 13-14, 2007
- 2007 Invited Speaker: Surgery Grant Rounds. Regenerative therapies for the treatment of heart disease: Where are we and what is the future? Emory University School of Medicine. May 17, 2007
- 2007 Invited Speaker: Update on SIRS and myocardial ischemia reperfusion injury during cardiac surgery. May 17, 2007. Atlanta GA
- 2007 Moderator: Cardiac Surgery Biology Club Meeting Program. AATS May 5-9, 2007
- 2007 Invited Speaker: "Inflammation During Cardiac Surgery". Montreal Heart Institute, Montreal Canada. June 15, 2007
- 2007 Featured Speaker: Montreal Heart Institute Research Program. "Regenerative therapies for the treatment of heart disease: Where are we and what is the future?" Montreal Heart Institute, Montreal Canada. June 15, 2007
- 2007 Invited Speaker and Moderator: "Efficacy of angiogenic therapy for cardiac repair." XXV Meeting of The Society of Cardiac Surgeons. June 22, 2007
- 2007 Invited Speaker: "Basic investigation and the future of cardiac surgery." XXV Meeting of The Society of Cardiac Surgeons. June 23, 2007
- 2007 Invited Speaker: "Master Lecturer" for the Michael E. DeBakey Summer Vascular Research Institute. Texas A&M University. July 5, 2007.
- 2007 Invited Speaker: "Regenerative therapies for the treatment of heart disease" West Virginia University School of Medicine. Department of Surgery Grand Rounds. July 11, 2007
- 2007 Invited Speaker: Ischemia reperfusion injury and organ protection in cardiothoracic surgery. Norfolk VA September 24, 2007
- 2007 Invited Speaker: "Cardiac surgery and Cardiology Grand Rounds. Impact of the systemic inflammatory response syndrome in cardiopulmonary bypass". Sentara Heart Center. Eastern Virginia College of Medicine. Norfolk VA. September 25, 2007
- 2007 Invited Speaker: Ischemia reperfusion injury and organ protection in cardiothoracic surgery. Richmond VA. September 25, 2007

- 2007 Invited Speaker and Facilitator: Grant Writing Symposium, American College of Surgeons Meeting. New Orleans LA. October 8-11, 2007
- 2007 Moderator: Targeted Therapy. Surgical Forum. American College of Surgeons Meeting. New Orleans LA. October 8-11, 2007
- 2007 Invited Speaker: On pump and off pump CABG: How do they compare? Louis Martini Winery, Napa CA. October 23, 2007
- 2007 Invited Plenary Speaker: On pump and off pump CABG: How do they compare? 60th Annual meeting of the Japanese Association for Thoracic Surgery, Sendai Japan. October 17-20, 2007
- 2007 Moderator: Special Session "Percutaneous and Surgical Approaches to Valvular Disease" American Heart Association Scientific Sessions. Orlando FL November 4-6, 2007.
- 2008 Invited Speaker: Trial Efficacy Results. F7CARD-1610 Investigators Meeting, Nono Nordisk. Prague, Czech Republic. April 4, 2008
- 2008 Invited Speaker: "New Advances in Cardiac Surgery". 19th Annual State of the Heart Symposium. Los Angeles Music Center. Los Angeles CA. April 25, 2008
- 2008 Moderator: Cardiac Surgery Biology Club Annual Meeting. AATS. May 10, 2008. San Diego CA
- 2008 Moderator: Session GS35-Cardiac and Thoracic Surgery. 94th Annual American College of Surgeons Clinical Congress. October 12-16, 2008
- 2008 Moderator: Session SF08. Surgical Forum Session. Targeted Therapies. . 94th Annual American College of Surgeons Clinical Congress. October 12-16, 2008
- 2008 Moderator and Introduction: John H. Gibbon, Jr Lecture. . 94th Annual American College of Surgeons Clinical Congress. October 12-16, 2008
- 2008 Speaker: Safety and efficacy of recombinant activated factor VII for the treatment of bleeding following cardiac surgery: A multinational, randomized, placebo-controlled trial. American Heart Association Scientific Sessions, New Orleans, November 9-13, 2008
- 2008 Moderator and Invited Speaker: Strategies to obtain cardiovascular surgical research funding. American Heart Association Scientific Sessions. New Orleans, November 9-13, 2008

- 2009 Moderator: Cardiothoracic Surgery/Ischemia Reperfusion. 4th Annual Meeting of the Surgical Academic Congress. Fort Myers FL, Feb 3-6, 2009
- 2009 Invited Lecturer: China Medical University. Shenyang China. Regenerative Therapies for the treatment of patients with heart disease. April 22, 2009.
- 2009 Invited Lecturer: China Medical University. Shenyang China. Myocardial ischemia reperfusion injury during cardiac surgery: Recent advances. April 22, 2009.
- 2009 Invited Lecturer: China Medical University. Shenyang China. Coronary artery bypass surgery-2009: What's new? April 23, 2009.
- 2009 Invited Lecturer: HESI Structural-Functional Cardiac Safety Workshop. Washington DC. June 2-4, 2009.
- 2009 Keynote Address: "Translational Science: Academics, Clinicians and You." AmSECT Annual Meeting. New Orleans LA. June 24-27, 2009

GRANTS:

- 1988-1989 NHLBI Institutional Research Grant Cardiovascular Center, University of Iowa College of Medicine, Iowa City. \$35,000
- 1990-1992 Beth Israel Hospital Start-up Grant "Cardioplegia and Coronary Microvascular Reactivity." [Principal Investigator]. \$90,000
- 1992-1999 NIH T32 HL 07374 "Cardiovascular research training program" [Co-investigator, James Morgan, PI] NA
- 1992-1994 Physician-Scientist Award, American College of Chest Physicians \$70,000
- 1992-1995 American Heart Association, Massachusetts Affiliate Grant-In-Aid. "Coronary Venous Microvascular Reactivity" 13-501-912. [Principal Investigator]. \$120,000
- 1992-1997 NIH First Award, "Cardioplegia and Coronary Microvascular Reactivity" R29 HL-46716. [Principal Investigator]. \$70,000 / year. \$350,000 total direct

- 1996-1997 Genentech, Inc. "VEGF in chronic Myocardial Ischemia."
[Co-investigator, Michael Simons, PI]. Don't know, I wasn't PI
- 1996-1997 Chiron Corporation, "Intrapericardial administration of basic FGF in chronic myocardial ischemia. [Co-investigator, Michael Simons, PI]. Don't know
- 1996-1999 NIH RO1 HL31704. "Regulation of contraction and growth of blood vessels". [Co-investigator, Kathleen Morgan, PI]. \$175,000 per year, 5% effort
- 1998-2001 NIH R01HL 58072. "Magnetic resonance imaging of coronary collaterals". [Co-investigator, Justin Pearlman, PI]. 5% effort, \$200,000 per year
- 1996-2001 NIH 2T32 GM07806. "Academic Training in Trauma and Burns." [Co-investigator, Michael Simons, PI]. NA
- 1996-2001 NIH R01 HL53793. "Angiogenesis in Myocardial Ischemia". [Co-investigator, Michael Simons, PI]. 5% effort, \$200,000 per year
- 1997-2009 NIH RO1 HL-46716, "Cardioplegia and Coronary Microvascular Reactivity" [Principal Investigator]. \$200,000 per year
- 1997-2003 NIH P50 HL 56993 SCOR Molecular Medicine. Section 6. Stimulation of human coronary angiogenesis with basic FGF. [5% Co-investigator, Lew Cantley, PI]. 5% effort
- 1999-2002 NIH RO1 HL62289. "Syndecan function in endothelial cells". [Co-investigator, Michael Simons, PI]. 5% effort, 200,000 per year
- 2000-2002 NIH. SBRI R43 HL65863-01 "Effect of a PARS inhibitor in myocardial ischemia reperfusion injury in a porcine model in vivo" [Subcontract PI] \$40,000 per year
- 2001-2003 Aventis Expedition Study, A double blinded, placebo controlled multinational trial to investigate the effect of IV treatment with the Na⁺/H⁺ exchange inhibitor CARIPORIDE (HOE642) on all-cause mortality and non-fatal myocardial infarction in patients at risk for myocardial necrosis during and after coronary artery bypass graft (CABG) surgery (HOE642A/3002). Aventis Pharmaceuticals, Inc. [Center Principal Investigator] don't know.
- 2001-2002 Autologous Myoblast Transplantation for the treatment of infarcted myocardium-A pilot study. Diacrin, Inc. [Center Principal Investigator] none
- 2001-2003 "HMG CoA Reductase Inhibitors and Cardiopulmonary Bypass"
NIH Individual National Research Service Award F32 HL69651
Agency: NIH/NHLBI P.I.: Tanveer Khan Sponsor: Frank W. Sellke

- \$40,000 per year to Dr Khan
- 2001-2009 NIH T32 “Cardiovascular research training program” [Co-investigator, Anthony Rosenzweig, PI] NA
- 2002-2012 NIH RO1 69024-05 Surgical angiogenesis in a porcine model of chronic myocardial ischemia. [Principal investigator] \$250,000 per year
- 2002-2003 NIH NOT-HL-02-003 MicroArray supplement for HL46716-11S1. [Principal Investigator] \$70,000
- 2002-2004 Anti-inflammatory and thrombotic effects of aprotinin, Bayer Corp. [Principal Investigator] \$50,000 total
- 2003-2008 NIH K-12 Initiatives for teachers and students (MKITS) grant [Co-investigator, Joan Y. Reede, PI] NA
- 2003-2004 Double-Blind Multi-Center Study of the Safety and Efficacy of Parecoxib Followed by Valdecoxib Compared to Placebo for Treatment of Post-Surgical Pain in Patients who have Coronary Bypass Graft Via Median Sternotomy, Pharmacia, [Principal Investigator]
- 2003-2006 NIH RO1 HL 072952 "KLF15, TGFb1 and smooth muscle biology" [5% Collaborating investigator, Mukesh Jain, PI] \$200,000 per year. 5% effort
- 2003-2005 Mentor to Peter Kang, MD on K08 HL067091-03, NHLBI no salary support. \$90,000 per year
- 2004-2005 CLF "Modulation of coronary angiogenesis in a porcine model of hypercholesterolemia" [Principal Investigator] \$40,000 total
- 2005-2006 Therumo Cardiovascular. Effects of non-ischemic acidosis on indices of myocardial dysfunction and apoptosis. [Co-PI]. \$40,000 total
- 2005-2006 Alexion/ Proctor & Gamble “Primo CABG II study”. [Site PI]
- 2005-2006 Inotek Corporation “Phase II randomized, double-blind, placebo-controlled, multicenter study to evaluate tolerability, safety, pharmacokinetics and efficacy of intravenous INO-1001 in high risk subjects undergoing cardiopulmonary bypass for coronary revascularization and/or valve surgery. [International Study Principal Investigator] none
- 2005-2007 Pluromed “Legoo internal vessel occluder: effects on endothelial function and myocardial perfusion” [PI] \$70,000 total
- 2004-2009 NIH T32 HL-076130 “Cardiovascular Surgery Research” Training Grant \$220,000 per year [Principal Investigator]

- 2004-2009 NIH T32 “Research Training in Vascular Surgery”
[Co-investigator, Frank Logerfo, PI]
- 2004-2009 Irving Bard Fellowship. [Mentor for 2 fellows per year] \$100,000 per year
- 2006-2007 Ikaria, Inc. “Effect of the hydrogen sulfide donor IL-1001 on the outcome of myocardial infarction and cardiopulmonary bypass in the pig”. [PI] \$300,000
- 2007-2011 R01 HL082837-01 The Role of RTEF-1 in Angiogenesis and Myocardial Ischemia [Co-PI, Jian Li, PI] \$250,000 per year, 5% effort
- 2008-2009 Orthologic Corporation. Effects of TP508 on Ischemia Reperfusion Injury and Apoptosis in a Porcine Model of Hypercholesterolemia. [PI] \$400,000 total
- 2008-2010 NIH RO1 DK 074098-01 “Angiogenesis in a model of diabetes and endothelial dysfunction” [principal investor] \$250,000 per year
- 2009-2014 NIH K-99. Small heat shock proteins in surgically-induced myocardial stunning. [Clements RT, PI; Sellke F, Mentor] \$90,000 per year

PENDING:

NIH RO1. Cobalt and Hydralazine Enhances Neovascularization. [Principal Investigator] \$250,000 per year

NIH R01 HL090521-01A1. PAR-06-459 Effects of pulse induced by a constant flow cardiac replacement device. [subcontract PI, OH Frasier, PI] \$40,000 to me per year. About \$400,000 per year total per year

MAJOR RESEARCH INTERESTS:

1. Coronary microvascular physiology and pharmacology.
2. Pathophysiologic consequences of cardiopulmonary bypass and cardioplegia.
3. Pulmonary microvascular physiology and pathology.
4. Ischemic myocardium and coronary circulation.
5. Altered vasomotor regulation of the coronary collateral circulation.
6. Therapeutic angiogenesis in patients with coronary artery disease.

7. Vasomotor effects of inhalation anesthetics.
8. Protein tyrosyl phosphorylation and vascular permeability
9. Neurocognitive outcome and genomic changes after cardiac surgery

DESCRIPTION OF RESEARCH:

My laboratory is involved primarily in the examination of the microcirculation of the heart, lung, brain and other organs. Specifically, we investigate the effects of extracorporeal circulation, cardioplegia, ischemia and reperfusion on altered vasomotor regulation, permeability, and gene expressions of proteins involved in vasomotor regulation and permeability. The use of pharmacologic probes and inhibitors of complement, neutrophil activation and adherence, and specific biochemical processes are used in large animal models of extracorporeal circulation and cardioplegia. In addition, the in vitro examinations of isolated, pressurized microvessels and other tissues are performed extensively. These in vitro techniques allow us to determine mechanisms of altered vasomotor characteristics of the coronary and peripheral microcirculation. Currently we are examining microvascular alterations after cardioplegia and cardiopulmonary bypass with respect to intracellular calcium handling, tyrosine kinase receptor phosphorylation, protein kinase C isoform translocation and activity, phosphorylation of myosin light chain, and changes in expression of isoforms of nitric oxide synthase and other proteins contributing to vasomotor tone and permeability.

Another primary area of investigation is the use of angiogenic growth factor proteins such as fibroblast growth factor-2 (FGF-2) and vascular endothelial growth factor (VEGF) to increase blood flow to ischemic myocardium. Both acute and chronic models of myocardial ischemia are used and intravascular and perivascular growth factor are applied. This research in animal models has been extended to a human clinical trial in which FGF-2 is administered by slow release devices to the ischemic and borderline non-ischemic myocardium of patients who cannot undergo standard coronary bypass surgery. Patients are evaluated clinically with magnetic resonance imaging and standard radionucleotide perfusion studies at intervals after implantation of the slow release devices.

Secondary areas of research interest include mechanisms of complement and neutrophil-induced injury of the vascular endothelium, regulation of contraction and growth of blood vessels, and magnetic resonance imaging of the porcine and human collateral circulation. All of the above research is funded primarily by grants from the National Institutes of Health and secondarily by industrial source funding.

UNIVERSITY TEACHING ROLES:

Local Contributions, Undergraduate Medical Education

Northeastern Ohio Universities College of Medicine

1983-87 Core Surgical Clerkship, Akron City Hospital
William V. Sharp, MD, Course Director
Conducted daily morning and afternoon rounds with medical students, participated in weekly educational conferences and morbidity and mortality conferences, intraoperative teaching. 1 or 2 students per month, 9 months per year, 12 hours per week.

University of Iowa College of Medicine

1987-90 Surgical (cardiothoracic) clerkship for junior and senior medical students, Douglas M. Behrendt, MD, Director
Conducted daily rounds with medical students, intraoperative teaching. 1 or 2 students per month, 9 months per year, 6 hours per week

Harvard Medical School

1990- Preceptor, Junior medical student core clerkship in surgery (SU600M.5), Michael Cahalane, MD, Course Director, 3 students per year, 6 hours per week. Daily teaching rounds 1 to 3 hours per week, intraoperative instruction in surgery, 6 hours per week

1990- Preceptor, Senior medical student surgical clerkship in cardiothoracic surgery (SU504M.1), Ronald M. Weintraub, MD, Course Director (1990-99) Daily rounds with senior medical students and other medical students and residents, intraoperative instruction during surgery, 4 student per year, 3 hours per week
1992; Preceptor for Juliann Reiland-Smith, Senior medical student surgical clerkship in cardiothoracic surgery, 12 hours per week for 4 weeks

1992 Patient-Doctor Year II (Introduction to clinical medicine, IN709M.Jb). Booker Bush, MD, Program Director, Instruction in cardiovascular and thoracic physical examination, 2 students per term, 3 hours per week, shared responsibility with 2 colleagues

1993-96 Treatment of Cardiac Failure: Basic science and clinical aspects (ME547.1). Judith Gwathmey, DVM, PhD, Course Director, 1 hour lecture and 2 hours discussion per session 1-2 times per year, 15 senior students per course

1999-01 Director, Senior medical student surgical clerkship in cardiothoracic surgery (SU504M.1) Daily rounds with senior medical students and other medical students and residents, intraoperative instruction during surgery, 4 student per year, 3 hours per week

Harvard Medical School-Massachusetts Institute of Technology-HST Program

1994-96 Member and clinical advisor, Ph.D. Advisory Committee for Naomi Chesler, Thesis entitled: "Ventricular assist device design and analysis: A computational approach", Roger Kamm, PhD, Advisor, Biomedical Engineering, 8 hours per 3 month period

Advisory and Supervisory Responsibilities in Laboratory

Research Trainee (Pre-doctoral research fellows)

Present position below name.

1996-97	Christina Vassileva (Johns Hopkins Medical School, 1998-02) CT Surgery Resident Brigham & Womens Hosp	Student at Northeastern University. Altered blood flow and blood flow regulation by ischemic preconditioning. 6 months, 8 hours per week of supervision and counseling)
1997, 98	Jennifer Lee	Student at Smith College. Volunteer research assistant during summer vacation. Microvascular regulation after cardiac surgery in patients. 4 hours per week of supervision and counseling)
1999-01	Eugenio Goncalves de Araujo (Dean, Univ of Brazilia Vet Med School)	PhD graduate student, Thesis: Changes in MAP kinases and adherins junctions in cardiac surgery
2003-04	Keith Michael, BS (Orthopedic Resident, Duke)	Harvard Medical Student, Gene sequencing
2003-04	Jennifer Sandmeyer, BS (Anesthesia Resident)	Harvard Medical Student, protein kinase expression during cardiac surgery
2004-05	Bryce Wolfe, BS	Harvard Medical Student
2004-05	Craig May, BS	Harvard Medical Student
2005 2004-06	Michelle Sellke Shafie Fazel, MD	Newton North High School Student Member of PhD Advisory committee, University of Toronto
2007	Eric Sellke	Newton North High School student
2008-09	Hilary Glazer	2nd year student, Washington University School of Medicine

Research Trainees (Post-doctoral research fellows)

Close supervision of research and directing research program (12 hours per week), present position below name.

1990-92	Tajammul Shafique, MD. (surgery resident, Beth Israel Hosp. & Univ. of Missouri 1992-96; private practice in surgery)	Effects of cardiopulmonary bypass and cardioplegia on vascular reactivity
1990-93	Hai Bin Dai, MD. (Researcher, Brigham)	Coronary arteriolar and venular vasomotor (research assoc., BIDMC) regulation. Effects of inhalation and intravenous anesthetics on coronary and cerebral microvascular regulation.
1991-92	Peter F. Banitt, MD (cardiology fellow, Brigham & Women's Hosp. 1992-96; cardiologist, private practice)	Relaxation responses of coronary arterioles and venules after blood cardioplegia.
1992-94	Robert N. Piana, MD (interventional cardiologist, Brigham & Women's Hosp; Assist. Prof of Med., HMS, Associate Professor, Vanderbilt)	Effects of ischemia-reperfusion and the angiotensin converting enzyme inhibition on coronary endothelial function and myocardial recovery. Coronary microvascular endothelial function and radiographic contrast media.
1993-95	Menachem Friedman, MD (cardiac surgeon, Rabin Medical Center, Israel)	Effects of cardiopulmonary bypass on pulmonary vascular reactivity. Effect of bFGF on collateral-dependent perfusion.
1993-96	Steven Y. Wang, MD, PhD (Assist Prof of Anesthesia, Brigham & Women's Hosp, Harvard Med. School)	Effects of cardiopulmonary bypass on coronary, pulmonary and cerebrovascular vasomotor regulation. Effect of bFGF and VEGF on collateral-dependent perfusion. Altered blood flow regulation during endotoxemia and sepsis. Heterogeneous coronary vasodilation of organic nitrates.
1993-96	Jianyi Li, MB, MS (research assoc., BIDMC)	In vitro microvascular pharmacology and effects of growth factors on vascular regulation.
1993-96	Kyung W. Park, MD (Professor, Department of Anesthesiology, Ohio State	Coronary and cerebral microvascular vasomotor regulation. Effects of inhalation and intravenous anesthetics on coronary and

	University School of Med)	microvascular regulation. Flow-mediated regulation of vascular tone.
1994-95	Mukesh D. Jain, MD (Prof of Med, Case Western Reserve School of Medicine)	Intrinsic tone of coronary resistance arteries.
1994-95	Kenneth Pfahler, MD (cardiology fellow, Emory; private practice in cardiology)	Cocaine and the human coronary microcirculation.
1995-97	Alon Stamler, MD (Assoc. Chief, Rabin Medical Center, Israel)	Effects of cardiopulmonary bypass on coronary and cerebrovascular vasomotor regulation and vascular permeability. Effect of bFGF and VEGF on collateral-dependent perfusion.
1995-98	Motohisa Tofukuji, MD, PhD (Assist. Prof. Surg, Tohoku Univ., Sendai Japan)	Effects of cardiopulmonary bypass and blood, magnesium and potassium cardioplegia on coronary and cerebrovascular vasomotor regulation and intracellular calcium handling. Effect of bFGF and VEGF on collateral-dependent perfusion, myocardial function, and gene expression. Altered blood flow and blood flow regulation by ischemic preconditioning. Clotrimazole and coronary microvascular regulation. Finalist: Vivien Thomas Research Award; American Heart Association, 1998
1996-98	Chantal Dessy, PhD (researcher, Catholic Univ. of Louvain, Brussels)	In vitro microvascular pharmacology and alterations in intracellular calcium mobilization during magnesium and potassium cardioplegia.
1996-98	Mukesh Hariawala, MD (research and surgeon, London)	Therapeutic angiogenesis, Effects of cardiopulmonary bypass and blood, magnesium and potassium cardioplegia on coronary and cerebrovascular vasomotor regulation.

1997-99	Caroline Metais, MD (Staff Anesthesiologist, Paris)	Altered gene and protein expression of VEGF, bFGF and nitric oxide isoforms after CPB and crystalloid cardioplegia and after ischemic preconditioning. Altered reactivity of human coronary microvessels by hypercholesterolemia. Finalist: Vivien Thomas Research Award; American Heart Association, 1998
1998-00	Naruto Matsuda, MD, PhD (Assist Prof of Surgery, Tottori Univ School of Med.)	Changes in microvascular intracellular calcium handling, myosin light chain phosphorylation, protein kinase C translocation after extracorporeal circulation and blood and Mg-based cardioplegia.
1998-00	Kaori Sato, MD (Research Assoc. Boston Med Center)	Therapeutic angiogenesis using protein growth factors and adenoviral vectors, vascular permeability effects of extracorporeal circulation
1999-00	Jian-Ping Zhang, MD (Biologist, Eli Lilly)	Detrimental effect of CPB
1999-00	Xunyu Xu, MD (Assist Prof of Surg, China)	Therapeutic angiogenesis, effects of myocardial ischemia on growth factor expression in patients
1999-00	Alec Li, PhD (Anesthesiologist)	Regulation of tyrosyl phosphorylation
1999-01	Renato Faro, PhD (Assistant Prof. Brazil)	PARS inhibition and CPB
2000-02	Marc Ruel, MD (Assoc Prof, Univ of Ottawa)	Clinical and experimental angiogenesis Finalist: Scandinavia Society for Thoracic Surgery Lillihei Award 2002. Finalist: AHA Vivian Thomas Research Award 2002.
2001-03	Tanveer Khan, MD (Resident, UCLA)	Inflammatory effects of CPB, angiogenesis Finalist: AHA Vivian Thomas Research Award 2002.
2002-04	Pierre Voisine, MD (Assist Prof Surgery, Univ of Quebec)	Modulation of the impaired angiogenic response in hypercholesterolemia
2002-03	Lena Prenger, MD	PKC activation in porcine coronary arteries

(Resident in Surgery
Baylor College of Medicine)

2003-04	Tamer Malik, MD	Therapeutic angiogenesis, effect of hypercholesterolemia
2003-05	Yasunari. Nakai, MD, PhD	Total artificial heart research, therapeutic angiogenesis using protein growth factors
2004-06	Munir Boodwani, MD	Therapeutic angiogenesis, effects of hypercholesterolemia and statin therapy Finalist: AHA Vivian Thomas Research Award 2005. Finalist: C Walton Lillehei Research Competition, AATS, 2007
2004-06	Basel Ramlawi, MD	Microarray analysis and clinical outcomes after cardiac surgery; AFMR Henry Christian Award 2006; 1st Prize at the Canadian Stroke Network Meeting 2006; Finalist and Winner, Vivien Thomas Young Investigator Award, AHA 2006
2004-06	Shigetoshi Mieno, MD, PhD Cardiac Surgeon and Assist Professor, Osaka Japan	Cell based therapy and angiogenesis; Effects of cryopreservation and diabetes on EPC viability and function
2005-08	Richard Clements, PhD Instructor, BIDMC/HMS	PI3 kinase and HSP signaling in cardiac surgery, Proteomics
2005-07	Neil Sodha, MD	Effects of high oxidative stress on angiogenesis; Effects of Diabetes on growth factor expression and angiogenesis; Winner of BIDMC Dept of Surgery Resident Research Award; Finalist and Winner, Vivien Thomas Young Investigator Award, AHA
2006-07	Sirisha Emani Ph.D.	Genomic correlates of neurocognitive dysfunction after cardiac surgery in diabetic patients
2007-09	Robert Osipov, MD	Thrombospondin expression and activity in diabetes and chronic ischemia. Finalist, Vivien Thomas Young Investigator Award, AHA
2007-08	Annika Krystyna, MD	Effects of hyperkalemia on cell signaling
2008-10	Michael Robich, MD	Oxidative stress and collateral growth,

myocardial protection

2008- Robina Matyal, MD Differential distribution of neuropeptide Y1 and Y2 receptors in diabetic myocardium

HOSPITAL TEACHING ROLES:

1983-1987 Akron City Hospital Surgery Residency Program
Northeastern Ohio Universities College of Medicine,
C. William Loughry, MD, Director (1983-86) William Sharp, MD, Director
(1986-87). Conducted daily morning and afternoon rounds with 1-3 surgery
residents (PGY 1-4), organized and participated in weekly educational
conferences. Teaching assistant in surgery. 12 months per year, 16 hours per
week

1987-1990 University of Iowa College of Medicine Surgical Residency, Nelson J.
Gurll, MD, Director, Daily rounds and instruction in cardiothoracic
surgery, 2 junior residents (PGY 1-3) per month, 12 months per year,
8 hours per week

Beth Israel Hospital (1990-96); Beth Israel Deaconess Medical Center (1996-)

1990-2000 General Surgery Resident teaching, John J. Skillman, MD, Director
(1990-92), Robert Johnson, MD (1993-96), Michael Stone, MD
(1996- 2000) 1 or 2 junior residents per month, one senior resident per month).
Daily teaching rounds, Instruction and assisting at surgery (cardiac and
thoracic). 12 months per year, 8 hours per week

1990-2002 Cardiac Surgery Fellowship (non-RRC approved), Ronald M. Weintraub,
MD, Director (1990-96), Robert G. Johnson, MD (1996-99) 2 post
graduate fellows (post surgery or post thoracic surgery residency)
per year, Daily teaching rounds, instruction and assisting at surgery (cardiac),
12 months per year, 12 hours per week

1996-P Cardiothoracic Surgery Residency, Sidney Levitsky, MD (1996-97),
Robert G. Johnson, MD (1997-99), Frank Sellke MD (1999-06), Malcolm
DeCamp, MD (2006-) Residency Director, Instruction and assisting at
surgery (cardiac and thoracic), Participation in weekly morbidity and
mortality conference and teaching conferences, 1 junior (PGY-6) and 1 senior
(PGY-7) resident per year, 12 months per year, 6 hours per week

1999-2006 Director, Cardiothoracic Surgery Residency Training Program,
Organization and administration of conferences and training program,
1 junior (PGY-6) and 1 senior (PGY-7) resident per year, 12 months per
year, 12 hours per week

1999-2001 Director, Cardiac Surgery Fellowship (non-RRC approved), 2 post
graduate fellows (post surgery or post thoracic surgery residency)

per year, Daily teaching rounds, instruction and assisting at surgery (cardiac), 12 months per year, 4 hours per week

Continuing Medical Education

1. Faculty Workshop: Young Surgical Investigators' Conference, American College of Surgeons, Surgical Research and Education Committee. March 30 - April 1, 1996, Chantilly, VA. Conducted 2 seminars (2-3 hours each) on grantsmanship and successful grant writing in cardiothoracic surgical research, participated in overall program for duration of course.
2. Program Chairman. Society of University Surgeons. 1998-00. (150 hours each year)
3. Faculty Workshop: Young Surgical Investigators' Conference, American College of Surgeons, Surgical Research and Education Committee. March 12 - 13, 2000, Chantilly, VA. Conducted seminar (3 hours) on grantsmanship and successful grant writing in cardiothoracic surgical research, participated in overall program for duration of course.
4. Faculty Workshop: Young Surgical Investigators' Conference, American College of Surgeons, Surgical Research and Education Committee. March 6-7, 2004, Landsdowne Resort. Conducted seminar (3 hours) on grantsmanship and successful grant writing in cardiothoracic surgical research.
5. Participant: "Transesophageal Echocardiography Review" on October 2-3, 2004. Beth Israel Deaconess Medical Center Department of Anesthesia and Critical Care, Harvard Medical School Continuing Medical Education, Boston, MA
6. Program Chairman. American Heart Association Council on Cardiovascular Surgery and Anesthesia. Member CSSP, American Heart Association. 2005-07 (150 hours each year)
7. Invited speaker, "What's new in cardiothoracic surgery" Update in Internal Medicine, December 5-11, 2004
8. Participant: "Transesophageal Echocardiography Review" on Sept 30-Oct 2, 2005. Beth Israel Deaconess Medical Center Department of Anesthesia and Critical Care, Harvard Medical School Continuing Medical Education, Boston, MA
9. Moderator: Innovative Strategies to Improve Open Heart Surgery Outcomes, Evanston IL. June 24-26, 2005
10. Invited speaker, "Advances in cardiothoracic surgery" Update in Internal Medicine, December 11-17, 2005
11. Faculty Chair and Organizer: Protease Activated Receptor-1 Expert Summit Meeting: Antithrombosis, Inflammation, and Ischemia-reperfusion injury. Annenberg Center for Health Sciences, Palm Springs, CA April 13-14, 2007
12. Program Committee, Society of Thoracic Surgeons. 2004-06

13. Participant: "Transesophageal Echocardiography Review" on Sept 7-9, 2007. Beth Israel Deaconess Medical Center Department of Anesthesia and Critical Care, Harvard Medical School Continuing Medical Education, Boston, MA

14. Participant: "Advanced Transesophageal Echocardiography Review" on Sept 5-7, 2008. Beth Israel Deaconess Medical Center Department of Anesthesia and Critical Care, Harvard Medical School Continuing Medical Education, Boston, MA

COMMUNITY SERVICE:

1996-P Project Success for Minority High School Students. National Institutes of Health funded educational grant, Joan Reede, MD, Program Director, Mentor and supervisor to 1-2 students/summer (1-2 hours of instruction or mentoring per week during summer)

1998-1999 Medical Malpractice Tribunal, Middlesex County Superior Court

2006-2007 Massachusetts Data Analysis Center Cardiac Study Adjudication Committee

2009 Lifespan outreach program. "Entrust your heart to the best". Moderator of program educating public on cardiovascular health. Swansea MA April 26, 2009