

**Date Prepared:** October 13, 2015

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**Place of Birth:** Everett, MA

**Education:** 1973 B.A. Regis College, Weston, MA  
1977 Ph.D. Boston University, Boston, MA  
1987 MBA Northeastern University, Boston, MA

**Further Education:** 2011 Program on Negotiation, Harvard Law School,  
Cambridge, MA

**Postdoctoral Training:**

1978-1979 Department of Ophthalmology, The Wilmer Institute,  
The Johns Hopkins Hospital, Baltimore, MD

1978-1981 Department of Physiological Chemistry,  
The Johns Hopkins University School of Medicine

**Faculty Academic Appointments:**

1979-1980 Instructor, Department of Ophthalmology, Johns Hopkins School of Medicine

1980-1981 Assistant Professor, Department of Ophthalmology, Johns Hopkins School of Medicine

1981-1988 Assistant Professor, Department of Surgery (Pathology), Harvard Medical School

1983- 1993 Program in Cell and Developmental Biology, Harvard Medical School

1989-1998 Associate Professor, Department of Surgery (Pathology), Harvard Medical School

1998-2012 Professor, Department of Ophthalmology (Pathology), Harvard Medical School

2012- Charles L. Schepens Professor of Ophthalmology, Harvard Medical School

2013- Professor of Pathology, Harvard Medical School

**Appointments at Hospitals/Affiliated Institutions:**

1981- Research Associate, Department of Surgery, Children's Hospital Boston

1998- Senior Scientist, Schepens Eye Research Institute

2002- Ankeny Scholar of Retinal Molecular Biology, Schepens Eye Research Institute

**Major Administrative Leadership Positions:**

2001-2011 Co-leader, Program in Development in Angiogenesis, Invasion & Metastasis, Dana Farber/Harvard Cancer Center

2002-2009 Associate Director of Research, Schepens Eye Research Institute

2008- Associate Director, Leder Human Biology & Translational Medicine Program

2009-2012 Co-Director of Research, Schepens Eye Research Institute

2009- Vice Chair of Basic Research, Department of Ophthalmology, Harvard Med. Sch.

2011- Co-Director, Harvard Department of Ophthalmology Center of Excellence in AMD

2012- Director of Research, Schepens Eye Research Institute, Mass Eye & Ear

2014- Director, Howe Laboratory, Mass Eye & Ear

2014- Associate Chief of Basic and Translational Research, Mass Eye & Ear

**Committee Service:**

**Harvard Medical School**

1985-1995 Fellow of the Oliver Wendell Holmes Society

1986-1993 Admissions Committee, Chair  
Program in Cell and Developmental Biology

1988-2005 Albert J. Ryan Scholarship Committee

1988-1992 Joint Committee on the Status of Women

1990-1991 Committee for Re-evaluation of Graduate Programs  
Division of Medical Sciences

1992-1999 Curriculum Committee, Chair  
Division of Medical Sciences

1993-2005 Minority Recruitment Committee  
Division of Medical Sciences

1993-1996 Harvard-Radcliffe Science Alliance

1993-2005 Steering Committee, Program in Biological and Biomedical Sciences

1993-1999 Curriculum Committee  
Program in Biological and Biomedical Sciences

1993-2004 Admissions Committee  
Program in Biological and Biomedical Sciences

1994- Faculty Committee on Medical Student Research

1995-2008 Summer Honors Undergraduate Research Program (SHURP)

1995- Research Fellow of the Castle Society

1998-2004 Admission Committee, Chair  
Program in Biological and Biomedical Sciences

2000-2001 Ad Hoc Search Committee  
Harvard School of Dental Medicine & Forsyth Dental Center

2000-2003 Member, Joint Committee on the Status of Women

2000 Chair, Inquiry Panel, HMS Standing Committee on Faculty Conduct

2001-2012 Standing Committee on Higher Degrees in Dental Medicine  
Faculty of Arts & Sciences

2001- Member, Department of Ophthalmology Executive Committee, Massachusetts Eye & Ear Infirmary

2002- 2010 Henry K. Beecher Prize in Medical Ethics Committee

2002 Review Committee of the M.D. Honors Thesis, Academic Societies' Committee on Awards and Honors

2002-2007 Joint Clinical Research Center Review Committee Chair, Mass. Eye & Ear & Schepens Eye Research Institute

2002-2005 Subcommittee of Professors, Faculty of Medicine

2002-2005 Faculty Council

2003-2004 Faculty Council Docket Committee  
2003- Selection Committee, The Eleanor and Miles Shore 50th Anniversary Fellowship Program for Scholars in Medicine  
2003-2004 Ad Hoc Search Committee, Harvard Medical School/Massachusetts Eye and Ear Infirmary, Department of Otolaryngology  
2004-2007 Faculty Diversity Committee  
2004 Standing Committee on Higher Degrees in Dental Medicine, Faculty of Arts & Sciences  
2004- Harvard-Vision Clinical Scientist Development Program Advisory Committee  
2005- Program Advisor, Biological and Biomedical Sciences Program  
2005-2006 "New Markey" Biomedical Sciences Program, Steering Committee  
2005-2006 Medical Education Reform Initiative, Advanced Experiences in Clinical Medicine & Design  
2006-2007 Concentrations Implementation Group  
2007- Biological & Biomedical Sciences Preliminary Qualifying Exam, Parent Committee  
2007 Chair, Ad Hoc Professorial Promotion Committee, Joslin Diabetes Center  
2008- Development and Regenerative Biology Program, Biomedical & Biological Sciences Program  
2008- Member, Harvard Graduate Women in Science and Engineering  
2008- Selection Committee, Doris Duke Clinical Scientist Development Award  
2008-2011 Standing Committee of the Subcommittee on Admissions, M.D./Ph.D. Program  
2009- Department of Ophthalmology, Promotions & Reappointment Subcommittee  
2010- Chair, Faculty Committee for Medical Student Research  
2010 Scholars in Medicine Subcommittee on Curriculum Task Force  
2010- Member, Ad Hoc Committee Search for Professor of Surgery, Vascular Biology Program, Children's Hospital Boston  
2011- Harvard Catalyst KL2 Admissions Committee  
2011- Member, HMS Loan Forgiveness Programs  
2011-2013 Member, Subcommittee of Professors  
2012- Member, Executive Committee, Scholars in Medicine  
2014 Review Panel, William F. Milton Fund of Harvard University  
2015 Voting Member, Harvard Medical School Promotion & Review Board

### **Schepens Eye Research Institute-Mass Eye and Ear**

1998-2007 Member, Responsible Conduct of Research Committee  
1999 Member, Internal Communications Committee  
1999- Member, Research Planning & Review Committee  
1999-2008 Member, Scholars Selection Subcommittee  
2000-2001 Member, Broadhurst Seminars Series  
2000-2002 Member, Appointments & Promotions Committee  
2000 Member, Core Grant Committee  
2000-2001 Member, Training Program Recruitment Committee  
2002-2006 Chair, Appointments & Promotions Committee  
2002-2004 Chair, SERI Seminar Series  
2004- 2010 Member, Institutional Leadership Committee,  
2004- Chair, Training Committee  
2006-2008 Chair, Space Committee  
2006- 2011 Chair, Neural & Vascular Biology Focus Group  
2006-2008 Co-Chair, Responsible Conduct of Research Committee  
2007- 2010 Faculty Retreat Committee  
2007-2009 Appointments & Promotions Committee  
2008-2014 Chair, Bob Fox Green Committee

2010- Director, Animal Facility  
2013- Chair, Nominations Committee, Department of Ophthalmology

### **National**

1983-1987 Awards Committee, The Microcirculatory Society  
1985, 1987 National Institute of Health Site Visits Committee  
1987-1988 Scientific Committee for the Vth International Symposium on the Biology of the Vascular Endothelial Cell  
1989-1990 Scientific Committee for the VIIth International Symposium on the Biology of the Vascular Endothelial Cell  
1991-1993 Program Planning Committee, Retinal Cell Biology Section  
Association for Research in Vision and Ophthalmology  
1991 American Society for Cell Biology,  
Local Arrangements Committee  
1993-1994 Scientific Committee for the VIIIth International Symposium on the Biology of the Vascular Cells  
1993-1994 North American Vascular Biology Org., Development Committee  
1995-1998 North American Vascular Biology Organization, Council  
1997 Vice-Chair, Gordon Research Conference on "Angiogenesis and Microcirculation"  
1996-1999 Committee for Career Development, Women and Minorities  
American Society for Investigative Pathology  
1996-1999 Women's Issues Committee  
Association for Research and Ophthalmology  
1999 Chair, Gordon Research Conference on "Angiogenesis and Microcirculation"  
1999 Founder and Chair, Boston Angiogenesis Meeting  
2000-2004 Member, Selected Professions Fellowships Awards Panel  
American Association of University Women Educational Foundation  
2010 Co-Chair, First Biennial Symposium on Age Related Macular Degeneration, Department of Ophthalmology  
2012- Distinguished Achievement Department Awards Committee  
2012 Member, Search Committee for Editor in Chief, American Society for Investigative Pathology  
2012 Co-Chair, Second Biennial Symposium on Age Related Macular Degeneration, Department of Ophthalmology  
2013- Member, Association for Investigative Pathology Education Cmte.  
2014- Member, External Advisory Committee, "Training Grant in Mechanisms of Vascular Disease"  
2014 Co-Chair Third Biennial Symposium on Age Related Macular Degeneration  
2015- Elected Associate Council Member, Association for University Professors of Ophthalmology (AUPO)

### **International**

2002-2005 ARVO Awards Committee  
2008 Program Committee, XXII Meeting International Society on Thrombosis and Haemostasis  
2013 Global Ophthalmology Awards Program, Grants Review and Awards Committee  
2014 ARVO-Women in Eye & Vision Research (WEAVR) Silent Auction Committee  
2015- Member, Vision Academy, Bayer HealthCare  
2015- International Society for Eye Research, Balazs Prize Committee

### **Professional Societies:**

1975- Member, American Society of Cell Biology  
1980- Member, Association of Research in Vision & Ophthalmology  
1980- Member, Microcirculatory Society  
1983- Member, The New York Academy of Sciences  
1990- Member, American Association of University Women  
1992- Member, American Society for Investigative Pathology  
1996- Member, North American Vascular Biology Organization  
2013- Member, American Diabetes Association  
2014- Member, Association of University Professors of Ophthalmology

### **Grant Review Activities:**

1984 Ad hoc Member, National Institute of Child Health and Human Development Special Study Section  
1992-1996 Member, National Institutes of Health Study Section, Cell Biology and Physiology-2  
1999 Reviewer, Basic Applications of Tumor Cell Biology, Susan G. Komen Breast Cancer Foundation  
2003 Special Emphasis Panel (Ad hoc), Somatosensory and Chemosensory Systems Study Section, NIH, Center for Scientific Review  
2003-2004 Study Section Leader, Dissertation Applications, Susan G. Komen Breast Cancer Foundation grant review  
2003-2005 Reviewer, Cellular Aspects of Diabetes and Obesity Study Section (CAD0), NIH  
2005 Reviewer, Drug Development Group Review Panel, NCI, NIH  
2006 Ad hoc member, Program Project Review Committee, NHLB Institute  
2005 Member, Special Emphasis Panel, NIH Cardiovascular Sciences Review Group  
2008 Member, Study Section, Susan G. Komen Breast Cancer Foundation Grant Review  
2008 Peer Reviewer, Cooperative Research Program, Massachusetts Life Sciences Center  
2009 Ad hoc Member, NIH, Shared Equipment (S10) Instrumentation Study Section, ZRG1CBQ31  
2009-2013 Member, NIH, Diseases and Pathophysiology of the Visual System, Center for Scientific Review  
2010-2011 Peer Reviewer, Cooperative Research Program, Massachusetts Life Sciences Center  
2011- Fight For Sight Scientific Grant Review Committee  
2013 NIH R01 Study Section, San Francisco, CA  
2013 HHMI Review Session, Medical Fellows Program, Washington, DC  
2013 JDRF Reviewer, LOI, Molecular Mechanisms in Diabetic Retinopathy  
2013 Grant Review & Awards Committee, Global Ophthalmology Awards Program

### **Editorial Activities:**

1989-1999 Executive Editor, Experimental Eye Research  
2000- Associate Editor, American Journal of Pathology  
2003-2013 Co-editor-in-Chief, Microvascular Research  
2013- Editor-in-Chief, Microvascular Research  
2006- Editorial Board, Clinical Ophthalmology  
2007- Open Ophthalmology Journal  
2009- Editorial Board, Diabetes Review Letters  
2011- Special Editorial Board, American Society for Investigative Pathology, Centennial Project  
2014- Editorial Advisory Board, The Ophthalmologist  
2015- Honorable Editor, Advances in Ophthalmology & Visual System

2015- Advisory Board Member, Progress in Retinal and Eye Research

### Honors and Prizes:

1972 Alvin T. Fuller Fellow, American Cancer Society  
1977 Lamport Award, The Microcirculatory Society  
1979 Meyers Honor Award for Research in Ophthalmology  
1986-1991 American Heart Association Established Investigator Award  
1993 Cogan Award, Association for Research in Vision and Ophthalmology  
1994 Alcon Research Institute Award  
1998-2003 Jules and Doris Stein Research to Prevent Blindness Professorship  
2004- Elected Member of The Academy at Harvard Medical School  
2005 Excellence Award, The Schepens Eye Research Institute  
2006 First Annual David Shepro Lecture, Boston University, Boston, MA  
2006 Senior Scientific Investigator Award, Research to Prevent Blindness  
2006 A. Clifford Barger Excellence in Mentoring Award, HMS  
2009 Gold Fellow, Association for Research in Vision and Ophthalmology,  
2010 5th Annual Jeffrey M. Isner, M.D. Endowed Memorial Lectureship  
2010 Distinguished Lecturer in Vision Science, State University of New York, Buffalo, NY  
2011 Third Annual Judah Folkman, MD Lectureship, Longwood Area  
Vascular Biology Seminar Series, HMS, Boston, MA  
2012 Rous-Whipple Award, American Society of Investigative Pathology  
2012 10th Annual Marc J. Mass Memorial Lecture, Dept. Molecular & Cellular Pathology,  
University of North Carolina, Chapel Hill, NC  
2013 Everett Mendelsohn Excellence in Mentoring Award, Harvard University  
2013 Hans Vilbertn Lecture, University of Regensburg, "Role of VEGF in the Adult:  
Implications for Anti-VEGF Therapy, Regensburg, Bavaria (April)  
2013 American Medical Association Women Physicians Sector Mentorship Award  
2014 Chosen for Marcelle Jay Room Display Celebrating Women in Ophthalmology,  
University College London  
2014 Giuseppina d'Elia Memorial Seminar, Guest Speaker, "The Role of VEGF in the Adult:  
Implications for Anti-VEGF Therapies," Boston University  
2014 Endre A. Balazs Prize, International Society for Eye Research  
2014 6<sup>th</sup> Annual SUNY Eye Institute Annual Meeting, Keynote Address, Robert Barlow  
Lecture, "Growth Factors and Cell-Cell Interactions in Vessel Formation and  
Stability, Syracuse, NY  
2014 Laureate, António Champalimaud Vision Award  
2015 Proctor Medal, Association for Research & Vision Ophthalmology

### Report of Funded and Unfunded Projects:

#### Past

1986-1991 American Heart Association Established Investigatorship  
1986-1994 Co-Investigator, RO1 EY06454, FGFs: Regulators of Neural Differentiation in the Retina  
1985-1998 Principal Investigator, R01 NIHEY05985  
Role of FGF in Retinal Vascular Growth and Pathology  
1998-2001 Principal Investigator, Susan Komen Breast Cancer Foundation,  
Role of FrzA in Breast Tumorigenesis  
1998-2003 Jules and Doris Stein Research to Prevent Blindness Professorship Salary Award  
2000-2001 Sub-project Principal Investigator, U.S. Army Medical Research Acquisition Activity  
Role of VEGF in the Adult Vasculature

2000-2003 Principal Investigator, U.S. Army Medical Research Acquisition Activity  
Low Vision Research at the Schepens Eye Research Institute

2001-2005 Sub-project Principal Investigator, Juvenile Diabetes Foundation Program Project - Role  
of Pericyte Loss in Diabetic Retinal Microangiopathy  
Dr. Mara Lorenzi, Principal Investigator

2006 Research to Prevent Blindness General Research Award

1987-2007 Sub-project Principal Investigator, P01 NIHCA45548  
Role of VEGF in Vascular Growth and Differentiation,  
Program Project : "Regulation of Angiogenesis"  
Dr. Judah Folkman, Principal Investigator

2002-2007 Sub-project Principal Investigator, R01EY014106  
Bioengineering Research Partnership Grant  
Live Microscopy and Cytometry in Vascular Biology

2008-2010 Principal Investigator, R21EY018347-01  
"Mechanisms That Mediate The Absence of Lymphatics in the Retina"

2009-2011 PI Edward N. & Della L. Thome Memorial Foundation \$135,000  
"An In Vitro Model of Disrupted Retinal Pigment Epithelial Cell-Matrix Interactions"

2010-2011 Sub-PI Department of Defense, W81XWH-10-1-0392 \$ 60,000  
Regeneration of Bruch's Membrane In Vitro and In Vivo  
Military Vision Research Program

2011-2012 PI Transmission Electron Microscope S10 RR027992-01A1

2011-2012 Sub-PI The Lincy Foundation \$ 35,000  
RPE Culture on Polymers

2011-2012 Subproject PI Dept. of Defense W81XWH-07-2-0038 \$ 65,000  
"The Role of Shear Stress-Induced Endomucin in Leukocyte-Endothelial Cell  
Interactions"

2008-2014 PI, NEI/NIH R01EY015435 No cost extension  
"Role of RPE-derived VEGF in Choroid Development & Stability"  
The goal of this study is to investigate the role of VEGF in choroidal vascular  
development and stability.

2012-2014 PI, American Diabetes Association, 7-12-IN-11  
Notch-mediated cell-cell interactions in the pathophysiology of diabetic retinopathy

2014-2015 PI NEI/NIH 1 R13 EY024813-01 No lab support  
"Third Biennial Symposium on Age Related Macular Degeneration"  
The major goal of this award is to provide funding for trainees to attend a biennial  
AMD symposium.

### Current

1984-2016 PI NEI/NIH EY05318-25 \$250,000/year  
"Cell-cell Interactions in the Retinal Vasculature"  
The major goal of this project is to understand the mechanisms that regulate vessel  
assembly and stability.

1997-2016 PI NEI/NIH 5T32EY007145-12 No lab support  
"Molecular Bases of the Eye Disease"  
The goal of this project is to train the next generation of scientists who will address the  
problems of eye disease by identifying new means of diagnosis, prevention and  
treatment.

1997-2016 Core Leader NEI/NIH P30 EY03790-33 Core Grant/Vision Research  
The major goal of this project is to provide support for four core modules available for

all SERI investigators. The four modules are Morphology, Animal Resources, Laboratory Computer Applications and Flow Cytometry.

2015-2016 PI NEI/NIH 5R01EY012509-15 \$248,987  
PDGF and PVR  
The major goals of this project are to investigate the mechanism by which growth factors drive biochemical and cellular responses intrinsic to proliferative vitreoretinopathy (PVR), and apply this information to the development of new therapeutic options to prevent PVR.

### **Current Unfunded Projects**

Role of endomucin in inflammation

Role of the inflammasome in AMD and pathogenesis of AMD

### **Report of Local Teaching and Training:**

#### **Boston University**

1974 Teaching Assistant, Anatomy Laboratory  
1975 Section Leader, Cell Biology

#### **Harvard Medical School**

1985-1988 Tutor: New Pathway, Metabolism, Matter and Energy  
1988 Course Organizer: Advanced Topics, Physiology and Biochemistry  
1991-1994 Faculty Participant: Conduct of Medical Science  
1991-1992 Co-organizer and faculty: Cell Biology 223, Cell Biology by the Case Method  
1993-Present Faculty: Summer Honors Undergraduate Research Program  
1994 Organizer: Biological & Biomedical Sciences Quarter Courses  
1995, 1997 Co-director and faculty: Pathology 210: Mechanisms of Disease Processes  
1998 Lecturer: Human Pathology Course, Frontiers: Tumor Angiogenesis, HST/MIT  
1999 Lecturer: Tumor Pathophysiology Course, Angiogenesis and Antiangiogenesis, HST/MIT  
2001 Lecturer: Tumor Pathophysiology Course: Angiogenesis and Anti-angiogenesis, HST/MIT  
2002 Co-organizer: Biological and Biomedical Sciences 300 - Seminar Presentation Skills  
2002 Lecturer: Pathology 211: Pathology, Biological and Biomedical Sci. Program  
2003 Lecturer: Tumor Pathophysiology and Transport Phenomena, HST/MIT  
2003 Tutor: Pathology IN714.0  
2003-2005 Lecturer: Pathology 211  
2005 Peer Review of Teaching Study, Faculty Development Program  
2007-2013 Lecturer: Developmental Biology, CB207, Molecular Mechanisms of Vertebrate Development  
2007 Lecturer: The Molecular Bases of Eye Disease, MEEI  
2008 Advisor: Biomedical Science Careers Student Conference  
2008 Lecturer: Endothelial Physiology, BCMP 235-MCB 235  
2008 Lecturer: Human Pathology Course, Harvard-MIT Division of Health Sciences and Technology, "Frontiers: Angiogenesis in Regeneration & Disease"  
2010-Present Human Pathology Course (HST 030), London/Harvard-MIT Division of Health Sciences and Technology  
2013 Lecturer: London/Harvard-MIT Division of HST, "Role of VEGF in Ocular Physiology and Pathology"



## **Additional Teaching**

- 1994-2011 Lecturer: Research Update in Neuroscience for Neurosurgeons, Marine Biology Laboratory, Woods Hole, MA
- 2010, 2012 Lecturer: Fundamental Issues in Vision Research, Marine Biology Laboratory, Woods Hole, MA
- 2014 Lecturer: Fundamental Issues in Vision Research, Marine Biology Laboratory, Woods Hole, MA

## **Formally Supervised Trainees:**

### **Undergraduate Students**

- 1994 Ako Bradford, Summer Honors Undergraduate Research Program
- 2002 Thalía Segal, Cornell University, Summer Intern  
OB/GYN Resident, North Shore-LIJ Health System, Great Neck, NY
- 2003-2005 Alissa Cohen, Wellesley College, Summer Intern  
PhD Candidate, Developmental Biology and Cancer Research, Hebrew University of Jerusalem
- 2005 Kabir Matharu, Cornell University, Summer Intern  
Researcher, Dept. of Linguistics, Koori Centre, Univ. of Sydney
- 2004 Tomoki Kurihara, Williams College  
Medical Student, Osaka University School of Medicine
- 2012-2013 Alexandra James, University of Exeter, UK
- 2013-2015 Mark Graham, University of Exeter, UK

### **Graduate Students**

- 1986-1992 Kim Saunders, Ph.D.  
Program in Cell and Developmental Biology, Harvard Medical School, transferred to New Zealand
- 1989-1993 Sandra Dethlefsen, Ph.D.  
Department of Biology, Boston University, Scientist, Genzyme Corp., Cambridge, MA
- 1990-1994 Po-Tsan Ku, Ph.D.  
Program in Cell and Developmental Biology, Harvard Medical School  
Senior Product Mgr., Stratagene, La Jolla, CA
- 1991-1995 David Shima, Ph.D.  
Program in Biol. and Biomedical Sciences, Harvard Medical School,  
Prof., University College London
- 1994-2000 Claudia Garcia, Ph.D.  
Program in Biol. and Biomedical Sciences, Harvard Medical School,  
Sr. Scientist, Dept. Ophthal., Washington University, St. Louis, MO
- 1994-2000 Eric Ng, Ph.D.  
Program in Biol. and Biomedical Sciences, Harvard Medical School,  
Lecturer, University College London
- 1994-2000 Lawrence Beck, M.D., Ph.D.  
Program in Biol. and Biomedical Sciences, Harvard Medical School,  
Instructor in Medicine, BU School of Medicine
- 1998-2003 Anne Goodwin, Ph.D.  
Program in Biol. and Biomedical Sciences, Harvard Medical School,  
Asst. Prof., North Adams State College, MA
- 1999-2005 Robyn Loureiro, Ph.D.  
Curriculum in Genetics and Molecular Biology, UNC

- Staff Scientist, Satori, Cambridge, MA  
 Research Scientist, Satori Pharmaceuticals, Cambridge, MA  
 2004-2007 Wendy Chao, Ph.D.  
 Program in Biol. and Biomedical Sciences, Harvard Medical School  
 Administrative Manager, Dept. of Ophthal., MEEI, Boston, MA  
 2003-2007 Arindel Maharaj, M.D., Ph.D.  
 Resident in Ophthalmology, Baylor Cullen Eye Institute,  
 Houston, Texas  
 2007-2011 Knatokie Ford, Program in Biological & Biomedical Sci., HMS,  
 Fellow, Advisory Committee to the President on Science and Technology Fellowship,  
 Washington, D.C.  
 2009-2102 Mandrita Datta, Program in Biological & Biomedical Sciences, HMS, Sr. Mgr., Pfizer  
 2009-2014 Wen Allen Tseng, Program in Biological & Biomedical Sci., HMS, NRSA Predoctoral  
 Fellowship  
 2011-2014 Cammi Valdez, Program in Biological and Biomedical Sci., HMS, NSF Grad. Research  
 Fellowship Program, Program Manager, MIT Summer Research Program

### Medical Students

- 1986-1988 Susan Connolly, Harvard Medical School, 1989  
 M.D. Magna cum laude, "Characterization of Vascular Development in Mouse Retina,"  
 UCSF  
 1987-1988 Keith Paige, Harvard Medical School, 1989 M.D., Cum laude  
 Recipient of Harold Lamport Biomedical Best Paper Reporting Original Research in  
 Biomedical Sciences, "Retinoids as a Differentiating Agent in Endothelial Cells," Plastic  
 Surgeon, Virginia Mason Medical Center, Seattle, WA  
 1987-1988 Gaylen Grayson, Harvard Medical School, 1988, Ophthalmology Fellow, University of  
 Southern California  
 1992-1995 George Sakoulas, M.D., Harvard Medical School, 1995, Cum laude  
 "The Role of bFGF in Duodenal Ulceration: A New Mediator in an Old Disease," Infect.  
 Disease Specialist, Crystal Run Healthcare, Middletown, NY  
 2014-2015 Daniel Oh, Harvard Medical School-Harvard/MIT Health Sciences & Technology track;  
 Howard Hughes Medical Institute Fellowship (for research)

### Postdoctoral Fellows

- 1983-1989 Alicia Orlidge, Ph.D., Health care  
 Recipient of NIH-NRS Postdoctoral Fellowship 1984-1987  
 Self-employed, The Netherlands  
 1985-1988 Susan Braunhut, Ph.D.  
 Recipient of NIH-NRS Postdoctoral Fellowship 1984-1986,  
 Prof. of Biological Science & Biochemistry, UMass, Lowell  
 1986-1990 Deborah Damon, Ph.D.  
 Recipient of NIH-NRS Postdoctoral Fellowship 1987-1989,  
 Assoc. Professor of Physiological Sciences, E. Virginia Med School  
 1989- 1994 Sandra Kostyk, M.D., Ph.D.  
 Recipient of Physician Scientist Award 1991-1994  
 Asst. Prof., Neurology, Ohio State University, Columbus, OH  
 1990- 1993 Amlan RayChaudhury, Ph.D., Instructor in Pharmacology, Rush Medical School,  
 Chicago, IL  
 1991- 1995 Anne Gougos, Ph.D.  
 Recipient of Research Fellowship, Heart and Stroke Foundation of Canada, Writer,  
 Toronto, Canada

1991-1995 Andrea Dodge, Ph.D.  
Recipient of NIH-NRS Postdoctoral Fellowship 1991-1994, Instructor, North Shore Community College, MA

1994-1997 Karen Hirschi, Ph.D.  
Recipient of NIH-NRS Postdoctoral Fellowship 1994-1997, Professor, Section of Cardiovas. Med., Yale Univ., New Haven, CT

1994-1997 Cynthia Grosskreutz, M.D., Ph.D.  
Recipient of NIH Physician Scientist Award 1994-1999  
Director of Research, Novartis, Cambridge, MA

1995-1996 Cecile Duplaa, Ph.D., Recipient of Fulbright Fellowship  
Research Director, INSERM, Pessac, France

1995-1996 Jianming Dong, MD, Ph.D., Neurology Resident, University of Washington, St. Louis, MO

1995-2000 Mary Elizabeth Hartnett, M.D., Professor of Ophthalmology, UNC

1996-2000 Qihong Xu, Ph.D., Scientist, Serono Laboratories, Norwell, MA

1996-1999 Rubai Ding, Ph.D., Staff Scientist, Berlex Labs, Richmond, CA

1998-2003 Diane Darland, Ph.D., Recipient of NIH-NRSA Postdoctoral Fellowship 1998-2001, Asst. Professor, University of North Dakota

2000-2002 Eric Ng, Ph.D., Lecturer, University College London

2001-2003 Markus Ramsauer, Ph.D., Research, Pharma, Basel, Switzerland

2001-2002 Alexandra Lappas, Ph.D., Ophthalmology, University of Aachen, Germany

2001-2007 Eric Finklestein, Ph.D., NRSA, 2004 – 1 F 32 CA105734,  
Research Associate, Syracuse Biomaterials Institute

2002-2009 Magali Saint-Geniez, Ph.D. Assistant Professor,  
Ophthalmology, Schepens Eye Research Institute

2003-2006 Scott Plotkin, M.D., Ph.D., Asst. Prof. in Neurology, MGH, Boston

2005-2006 Kazuichi Maruyama, M.D., Ph.D., Recipient of Gordon Research Conference Travel Award 2006  
Associate Professor, Ophthalmology, Tohoku University Graduate School of Medicine

2006-2008 Brad Bryan, Ph.D., Asst. Professor, Texas Tech University

2006-2011 Tony Walshe, Ph.D., Knights Templar Grant  
Senior Scientist, Berg Biosystems, Natick, MA

2007-2009 Eiichi Sekiyama, M.D., Ph.D., Recipient of Bausch & Lomb  
Overseas Research Award, Clinician in Ophthalmology, Kyoto Prefectural University in Medicine

2007-2010 Nathaniel dela Paz, Ph.D.  
Research Scientist, La Jolla Bioengineering Institute, CA  
Fellowship, Molecular Bases of Eye Disease Training Grant

2009-2011 Alisar Zahr, Ph.D., Recipient of MBED Fellowship  
Sr. Scientist, Johnson & Johnson, Skillman, NJ

2009-2011 Sunita Patel-Hett, Ph.D.  
Scientist, Biogen, Cambridge, MA

2009-2010 Kati Kinnunen, Ph.D.  
Asst. Prof., University of Kuopio, Finland

2007-2014 Joseph Arboleda, M.D., Ph.D.  
Investigator, Schepens Eye Research Inst., Assistant Professor, Harvard Medical School

2011- Jinling Yang, Ph.D.

2011- Leo Kim, M.D., Ph.D.  
K12 Recipient

2012- Cindy Park-Windhol, Ph.D.  
Fellowship, Molecular Bases of Eye Disease Training Grant

2013- Gopalan Gnanaguru, Ph.D.

## Inflammasome Formation in AMD

### **Surgical Fellows**

- 1983-1984 Aubrey Galloway, M.D., Professor of Surgery, NYU  
1985-1987 Robert W. Thompson, M.D., Professor of Surgery, University of Washington, St. Louis, MO  
1987-1988 Hank Frissora, M.D., Surgeon, BIDMC, Boston  
1994-1996 Stephanie Rohovsky, M.D., Harvard-Longwood Research Training Fellow, Surgeon, BIDMC, Boston  
1997-2000 Louis Nguyen, M.D., Harvard-Longwood Research Training Fellow  
Asst. Professor of Surgery, Brigham & Women's Hospital, Boston

### **Dissertation Advisory Committees**

- 1983-1987 Christine Kelley, Ph.D.  
Department of Biology, Boston University  
1983-1987 John Doukas, Ph.D.  
Department of Biology, Boston University  
1989-1991 Aileen Healy, Ph.D.  
Department of Anatomy and Cell Biology, Tufts Medical School  
1989-1991 Elizabeth Neuman, Ph.D.  
Program in Cell and Developmental Biology, HMS  
1991-1994 Thomas White, Ph.D.  
Program in Cell and Developmental Biology, HMS  
1989-1995 Christa Merzdorf, Ph.D.  
Program in Cell and Developmental Biology, HMS  
1994-1995 Hwai-Jong Cheng, Ph.D.  
Program in Biological and Biomedical Sciences, HMS  
1993-1996 Joe Gabriels  
Program in Biological and Biomedical Sciences, HMS  
1994-1996 Mark Throop  
Program in Biological and Biomedical Sciences, HMS  
1994-1998 Laura Demolino  
Department of Anatomy and Cell Biology, Tufts Medical School  
1995-1998 Marilyn Fitzgerald  
Program in Biological and Biomedical Sciences, HMS  
1999-2001 Rani Dhavan  
Program in Biological and Biomedical Sciences, HMS  
2000-2005 Leslie Frieden, Ph.D.  
Program in Biological and Biomedical Sciences, HMS  
2003-2009 Julia Sero, Ph.D.  
Program in Biological and Biomedical Sciences, HMS  
2003-2008 Joseph Arboleda, Ph.D. (Chair)  
Program in Biological and Biomedical Sciences, HMS  
2005-2007 Kush Pumar, M.D., Ph.D. (Chair)  
Program in Biological and Biomedical Sciences, HMS  
2006-2009 Corrine Nielsen, Ph.D.  
Program in Biological and Biomedical Sciences, HMS  
2007-2009 Scott Potenta, M.D., Ph.D.  
Program in Biological and Biomedical Sciences, HMS  
2008-2010 Vida de Arce, PhD.  
Program in Biological Sciences in Dental Medicine

2011- Kelli Carroll, Ph.D.  
 Program in Biological and Biomedical Sciences, HMS

2011-2013 Peter Yang, Ph.D.  
 Program in Biological and Biomedical Sciences, HMS

2011- Cholsoon Jang, Ph.D.  
 Program in Biological and Biomedical Sciences, HMS

2011- Teresa Peterson, Ph.D.  
 Program in Biological and Biomedical Sciences, HMS

2013- Jamie Lahvic  
 Program in Biological and Biomedical Sciences, HMS

### **Laboratory and Other Research Supervisor and Training Responsibilities**

1984-1986 Jeffrey Jacob, M.D., Pediatric Allergy/Immunology, Pediatrics Northwest, Seattle, WA

1999-2003 Lauren J. Massingham, M.D., Medical Genetics, Pediatrics, Tufts Medical Center, Boston, MA

2010-2012 Amber Cussen, OD/PhD candidate, University of Michigan

2008-2010 Lindsay Leach, Ph.D. candidate, University of California at Santa Barbara

2012-2014 Vincent Primo, Ph.D. candidate, Boston College

2014- Alex Bigger-Allen

### **Summer Students**

2001 & 2002 Kaitlyn Sullivan, McGill University, MSc., McGill University

2004 Alissa Cohen, Wellesley College, Ph.D. Student, Hebrew University

2004 Talia Wong, H.S.,

2005 Kabir Matharu, Cornell University, M.D., UC Davis School of Medicine

2006 Thalia Segal, Cornell University, Senior Resident, Albert Einstein College of Medicine

2006 Josh Havumaki, UMass Amherst, MPH, Biostatistics & Data  
 Manager, FIND Diagnostics, Geneva, Switzerland

2006 Sunjay Mathur, Suffolk University, Physiatrist, Ann Arbor, Michigan

2013 Meera Dave, Meharry Medical College, MD candidate

2014 Carly Eiduson, Tufts University (Fall, 2015), Kevin Tso

2015 Shreyek Khadka, Margaret Reynolds

### **Patents:**

"Bioerodible articles useful as implants and prostheses having predictable degradation rates", Patent No. 4,886,870; European Patent No. 86,106,813.8.

"Oligosaccharide-containing inhibitors of endothelial cell growth and angiogenesis: USSN 07/342065 (pending)

### **Report of Regional, National, and International Invited Teaching and Presentations:**

#### **1982**

Combined Pathology Grand Rounds, Harvard Medical School, Boston, MA April, 1982.  
 Seminars in Microvascular Physiology, Boston University, Boston, MA November, 1982.

#### **1983**

Veterans Administration Hospital, Boston, MA (January)

Department of Biology, Bowdoin College, Brunswick, ME. (March)  
FASEB, Chicago, IL (April)  
Seminars in Vascular Physiology, Boston University, Boston, MA (November)  
Department of Pathology, Brigham and Women's Hospital, Boston, MA (November)  
Cell and Developmental Biology Seminar Series, Department of Biology, Boston, MA (December)

#### **1984**

Cell and Developmental Biology Program, Harvard Medical School, Boston, MA (March)  
Department of Pathology, Yale University School of Medicine, New Haven, CT (April)  
"Mechanisms Controlling Angiogenesis in the Eye." Federation of American Societies for Experimental Biology, St. Louis, MO (April)  
International Course on Tissue Culture in the Study of the Cardiovascular System. University of Saskatchewan, Saskatoon, Canada (May)  
"Growth Factors, Heparin and Growth Control". Third International Symposium on Biology of the Vascular Endothelial Cell, Boston, MA (June)  
Max-Planck-Institut fur Entwicklungsbiologie, Tubingen, West Germany. (September)  
"Growth Control at the Microvascular Level". Third World Congress for Microcirculation, Oxford, England (September)  
"Growth Factors and Matrix as Controls for Blood Vessel Growth in the Eye". Sixth International Congress of Eye Research, Alicante, Spain (October)  
Department of Physiology and Biophysics, Harvard Med School, Boston, MA (November)  
Longwood Medical Area Diabetes Seminar, Joslin Diabetes Center, Boston, MA (December)

#### **1985**

Pulmonary Center, Boston University School of Medicine, Boston, MA (February)  
The Microcirculatory Society, Organizer and Chairperson of Endothelium Session, Tucson, AZ (April)  
Roundtable discussion on the "Problems and Practicality of Seeding Vascular Prosthetic Devices", Gore Associates, Inc., Flagstaff, AZ (August)  
"Growth Factors, Angiogenesis and Metastasis". Upjohn Symposium on Cancer Metastasis: Experimental and Clinical Strategies, Kalamazoo, MI (September)  
Vascular Research Group, Tufts University School of Medicine, Boston, MA (December)

#### **1986**

Department of Pathology, McMaster University, Hamilton, Ontario (April)  
"The Role of Heparin-Like Molecules in the Control of Angiogenesis". American Thoracic Society Annual Meeting, Kansas City, MO (April)  
Department of Orthopedics, The Children's Hospital, Boston, MA (May)  
"Cell Biology and Biochemistry of Collateralization". National Heart, Lung and Blood Institute Workshop on Research in Vascular Disease, Bethesda, MD (August)  
Department of Ophthalmology, Yale School of Medicine, New Haven, CT (October)

#### **1987**

Vascular Fellows of Boston Seminar Group, Harvard Club, Boston, MA (February)  
Department of Anatomy and Cellular Biology, Tufts Medical School, Boston, MA (February)  
Department of Biochemistry, Harvard University, Cambridge, MA (March)  
Department of Ophthalmology, Duke University Medical School, Durham, NC (April)  
"Anti-Angiogenesis: An Approach to Anti-Metastasis". Montebello Workshop on the Rationale for the Development of Antithrombotic, Fibrinolytic and Antimetastatic Drugs: A Mechanistic Approach". Montebello, Quebec, Canada (April)

"A Role for Pericytes in Angiogenesis". National Heart, Lung and Blood Institute Workshop on Research in Vascular Disease, Bethesda, MD (June)  
Grand Rounds, National Eye Institute, Bethesda, MD (October)  
"Heparin and Growth Control of Vascular Cells". New York Academy of Sciences Symposium on Structure and Activities of Heparin and Related Polysaccharides, New York, NY, Speaker and Session Chairperson (November)  
Vascular Research Seminar, New England Deaconess Hospital, Boston, MA. (December)  
"The Role of Growth Factors and Cell-Cell Communication in the Control of Angiogenesis". Second International Forum on Fibrinolysis and Angiogenesis in Wound Healing, San Antonio, TX. (December)

## 1988

Massachusetts Eye and Ear Infirmary, Boston, MA (January)  
"Growth Factors and Pericytes in Microangiopathy". Vascular Disease and Diabetes Mellitus: A New Approach, Montreux, Switzerland (February)  
Hematology-Oncology Seminars, University of Connecticut, Farmington, CT (February)  
"In Vitro Methods in the Study of Retinal Vascular Growth Control". Second Western Eye Research Conference, Lake Arrowhead, CA (February)  
Department of Physiology, University of Virginia, Charlottesville, VA (March)  
Program in Cell and Developmental Biology, Harvard Medical School, Boston, MA (March)  
Programs in Atherosclerosis and Thrombosis, Harvard Medical School, Boston, MA (April)  
Department of Biology, Boston University, Boston, MA (April)  
Cardiovascular Group, Baylor College of Medicine, Houston, TX (May)  
"Growth Modulators and Cell-Cell Interaction in the Control of Angiogenesis". Bristol-Myers Symposium on "Growth Factors". Wallingford, CT (June)  
"Growth Factors and Cell Communication in the Control of Angiogenesis". Tissue Culture Association Meetings, Symposium on "Angiogenesis", Las Vegas, NV (June)  
"Angiogenesis as a Response to Injury". Vth International Symposium on the Biology of the Vascular Endothelial Cell, Toronto, Ontario, Canada. Speaker and Session Chairperson (July)  
"Growth Factors and Cell Interactions in the Regulation of Angiogenesis". Gordon Research Conference on Vascular Biology, Kimball Union, NH (August)

## 1989

"Angiogenesis". Visions in Wound Healing, Tarpon Springs, FL (March)  
"Overview of the Pericyte". Blood Vessel Club Invited Presentation, FASEB, New Orleans, LA (March)  
Regulation of Vascular Endothelial Cell Growth". FASEB, New Orleans, LA, Speaker and Session Chairperson. (March)  
Department of Medical Pathology, University of Minnesota, Minneapolis, MN. (May)  
"Use of Cultured Endothelium in Vascular Prostheses". Tissue Culture Association, Orlando, FL. Formal Symposium Participant (June)  
"Co-Cultures of Endothelial Cells and Pericytes Produced Activated TGF- $\beta$ ". Gordon Research Conference on Molecular and Genetic Basis for Cell Proliferation, New London, NH (July)  
Somatix Corporation, Cambridge, MA (August)  
Eye Research Institute of the Retina Foundation, Boston, MA (September)  
2nd Intl. Conference in Ocular Circulation and Neovascularization, Baltimore, MD (September)  
"Pericyte Inhibition of Endothelial Cell Growth". Second International Symposium on Ocular Circulation and Neovascularization. Baltimore, MD (September)  
"Growth Factors in the Control of Angiogenesis". NIH Workshop on the Biology of the Renal Microvasculature, Bethesda, MD (October)  
Burlex Pharmaceutical, Cedar Knolls, NJ (October)

Department of Pathology, U MASS Medical School, Worcester, MA (November)  
Newborn Medicine, The Children's Hospital, Boston, MA (November)  
"Regulation of Endothelial Cell Behavior by Pericytes". NIH Meeting on Endothelial Cells in  
Development and Disease, Crystal City, VA (November)  
"Role of Growth Factors in Vascular Growth Control". American Zoological Society Symposium on  
"Frontiers in Hormone Research". Boston, MA (December)

## 1990

Department of Anatomy, Harvard Medical School, Boston, MA (January)  
Physiological Society of Philadelphia Symposium on Growth Factors, Philadelphia, PA (January)  
Department of Pathology, Queens University, Ontario, Canada (March)  
"Heparin-Endothelial Cell Interactions". Clinica Medica, University of Florence, Heparin in the 90's:  
Present and Future. Florence, Italy (March)  
Department of Pathology, Washington University Medical School, Seattle, WA (May)  
"Pericyte-Endothelial Interactions Regulate Vascular Growth: Role of TGF- $\beta$ ." American Thoracic  
Society, World Conference on Lung Health. Boston, MA (May)  
"Pericyte-Endothelial Cell Interactions Regulate Vascular Growth: Role of TGF- $\beta$ ". American Thoracic  
Society, World Conference on Lung Health. Boston, MA. (May)  
Cutaneous Biology Research Center, Department of Dermatology, MGH,  
Boston, MA (June)  
Creative Biomolecules, Inc., Hopkington, MA (July)  
"Mural Cells in Vascular Growth Control". Gordon Research Conference on Vascular Biology, Kimball  
Union, NH (August)  
"A Role for Pericytes in the Control of Endothelial Cell Growth". 6th International Conference on  
Differentiation of Normal and Neoplastic Cells, Vancouver, British Columbia, Canada (August)  
Department of Medicine and Surgery, New England Deaconess Hospital, Boston, MA (September)  
"Developmental Aspects of Vascular Disease". The 101st Ross Conference on Pediatric Research.  
Developmental Mechanisms of Disease in the Newborn, Tempe, AZ (November)  
"Mural Cells in Vascular Control". American Zoological Society Symposium on "Frontiers in Hormone  
Research". Boston, MA (December)  
"Fibroblast Growth Factors and Their Receptors in Growth and Pathology". Minisymposium Organizer  
and Chairperson. American Society for Cell Biology, San Diego, CA (December)

## 1991

Biogen, Inc. Cambridge, MA (January)  
"Endothelial Cell-Mural Cell Interactions in Vascular Growth Control". Keystone Symposia, FGF,  
Endothelial Cell Growth Factors and Angiogenesis. Keystone, CO (April)  
"Endothelial-Pericyte Interactions in Vascular Growth Control". Symposium on "Vasculogenesis and  
Angiogenesis". FASEB. Atlanta, GA, Speaker and Session Chairperson (April)  
Seminars in Vascular Biology Series, Harvard Medical School, Boston, MA (May)  
New York University Medical Center, New York, NY (May)  
"Growth Factors and Intercellular Communication in Diabetic Atherosclerosis". Current Approaches to  
Treating Dyslipidemia in the Diabetic Patient: From Theory to Practice. Washington, DC (June)  
"Heparin and Angiogenesis". Symposium on Heparin and its Derivatives - Present and Future  
Developments. Amsterdam, The Netherlands (July)  
"The Role of Pericytes in Angiogenesis". Symposium on Angiogenesis and Tumors. 5th World  
Congress for Microcirculation. Louisville, KY (September)  
"Cellular Cross-Talk Between Endothelial Cells and Pericytes". Symposium on Intercellular  
Communications: How Cells Talk to Each Other. American Society of Clinical Pathologists. New  
Orleans, LA (September)  
Department of Endocrinology, Rhode Island Hospital, Providence, RI (October)



Cardiovascular Group, Massachusetts General Hospital East, Boston, MA (November)

## 1992

"Endothelial Cell-Mural Cell Interactions". Keystone Symposium on Inflammation, Growth Regulatory Molecules and Atherosclerosis. Keystone, CO (January)

Pulmonary Division, New England Medical Center, Boston, MA (March)

Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX (March)

Department of Pathology, University of Rochester Medical School, Rochester, NY. (April)

"Molecules that Mediate Endothelial Cell-Pericyte Interactions." American Physiological Society on Pericyte and Mesangial Mechanisms and Microvascular Function. FASEB Meetings, Anaheim, CA (April)

Department of Biochemistry, University of CA at San Francisco, San Francisco, CA (June)

Department of Ophthalmology, Bethesda Eye Institute, St. Louis, MO. (October)

Monsanto Company, St. Louis, MO (October)

"Endothelial Cell-Mural Cell Communication in the Vasculature". VIIth International Symposium on the Biology of Vascular Cells. San Diego, CA. (November)

Department of Ophthalmology, Harvard Medical School, Boston, MA. (December)

## 1993

Symposium on "Angiogenesis and Wound Healing." American Association of Pathology, FASEB, New Orleans, LA. Organizer and Chairperson. (March)

"bFGF in Injury and Pathology". Experimental Biology '93 (FASEB), New Orleans, LA. (March)

Departs of Ophthal. and Biological Structure, University of Washington, Seattle, WA. (April)

Department of Pathology, University of Washington, Seattle, WA. (April)

Committee on Vascular Biology, The Scripps Research Institute, La Jolla, CA. (April)

Cleveland Clinic Research Foundation, Cleveland, OH. (May)

Symposium on Role of Growth Factors in Development and Pathology. Organizer and Chairperson.

Association for Research in Vision and Ophthalmology, Sarasota, FL. (May)

Cogan Award Lecture. Assn. for Res. in Vision and Ophthalmology, Sarasota, FL. (May)

Distinguished Vision Scientist Series, New England Eye Center,

Tufts Med School, Boston, MA (September)

Department of Biology, Wesleyan University, Middletown, CT. (September)

"Cell-Cell Interactions in Vascular Growth and Pathology." Cardiovascular Research Seminar Series,

Dept. of Medicine, St. Elizabeth's Hospital, Boston, MA. (September)

Hybridon, Inc., Worcester, MA. (October)

Department of Physiology, University of Vermont, Burlington, VT. (October)

OB-GYN Grand Rounds, University of Vermont, Burlington, VT. (October)

"Hypoxia, Vascular Endothelial Growth Factor and Ocular Neovascularization". Symposium on Vascular Complications of Diabetes Mellitus. Joslin Diabetes Center. Boston, MA. (October)

"Mechanism of Ocular Neovascularization". Cold Spring Harbor Meeting on Mechanisms of Developmental and Tumor Angiogenesis. Cold Spring Harbor, NY (November)

Anesthesia Grand Rounds, Beth Israel Hospital, Boston, MA. (December)

"Cell-Cell Interactions in Microvascular Growth Control". Broadhurst Foundation Visiting Lecture Series. Schepens Eye Research Institute, Boston, MA. (December)

"Endothelial Cell-Mural Cell Interactions: Role in Vascular Development and Pathology". In: Functionality of the Endothelium in Health and Diseased States, XVIII National Congress of Cardiology, Veracruz, Mexico. (December)

## 1994

Prizm Pharmaceuticals, San Diego, CA. (January)

Columbia Presbyterian Medical School, New York, NY. (January)  
Surgical Grand Rounds, New England Deaconess Hospital, Boston, MA. (February)  
Pulmonary Division, New England Medical Center, Boston, MA. (March)  
"Growth Factors and Ocular Neovascularization." Basic Course in Ophthalmology.  
"Cell-Cell Interactions in Vascular Growth Control". Fourth Annual Meeting of The Wound Healing Society. San Francisco, CA. (May)  
American Cyanamid, Pearl River, NY. (June)  
Department of Pathology, Beth Israel Hospital, Boston, MA (July)  
"Hypoxic Regulation of VEGF and its Role in Proliferative Neovascularization". VIIIth International Symposium on the Biology of Vascular Cells. Heidelberg, Germany. (August)

## 1995

Research Seminars, Joslin Diabetes Center (January)  
IXSYS, Inc., San Diego, CA (January)  
Departments of Anatomy and Cell Biology, Univ. of Texas Health Science Center, Ft. Worth, TX (January)  
Department of Immunology, Massachusetts Eye and Ear Infirmary, Boston, MA. (January)  
Department of Surgery, Exeter Hospital, Exeter, NH (March)  
Tufts Blood Vessel Club, Tufts Medical School, Boston, MA (April)  
"Cellular and Molecular Insights into Hypoxia-Induced Neovascularization." Symposium on Ischemia/Hypoxia in Biological Systems, Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL. Organizer and Speaker (May)  
"Pericytes and Growth Factors in the Control of Angiogenesis." Gordon Research Conference on "Angiogenesis and Microcirculation," Newport, RI (August)  
1995 Harvard/Radcliffe Science Alliance, Cambridge, MA (September)  
Seminar in Vascular Biology, Harvard Medical School, Boston, MA (November)  
Lung Biology Division, San Francisco General Hospital, San Francisco, CA. (November)

## 1996

Cardiovascular Diseases Research, Du Pont-Merck, Wilmington, DE. (January)  
Department of Biochemistry, Boston University School of Medicine, Boston, MA. (January)  
Department of Pathology, University of Oklahoma, Oklahoma City, OK. (February)  
"Cellular and Molecular Regulators of Angiogenesis", International Business Communications meeting on Angiogenesis Inhibitors, Boston, MA, (February)  
Student Dinner Seminar Series, Program in Biological and Biomedical Science, HMS (March)  
Center for Vascular Biology, Medical College of Georgia, Augusta, GA, (March)  
Genzyme, Inc., Cambridge, MA. (March)  
"Things They Don't Teach You in Graduate School", Keynote Address at the Boston Area Graduate Student Symposium, Boston, MA. (March)  
"Angiogenesis and hypoxic regulation of VEGF", Symposium on Molecular Targets of Vascular Disease, American Physiological Society, Experimental Biology '96, Washington, DC. (April)  
Entremed, Inc., Bethesda, MD. (May)  
"Role and regulation of VEGF in normal and pathologic neovascularization", Gordon Research Conference on Peptide Growth Factors, Kimball Union Academy, Meriden, NH. (August)  
Department of Physiology, Tufts Medical School, Boston, MA. (September)  
New England College of Optometry, Boston, MA. (December)

## 1997

“In Vitro Models of Blood Vessel Assembly”, Research Initiatives in Vascular Disease Conference on How to Build a Blood Vessel, Bethesda, MD. (March)  
“Cell-cell Interactions in Blood Vessel Assembly”, Symposium on Angiogenesis, Co-chair and speaker. North American Vascular Biology Organization, New Orleans, LA. (March)  
Cardiovascular Seminar Series, St. Elizabeth’s Hospital, Boston, MA. (May)  
“Cell-cell Interactions and Growth Factors in Vascular Growth Control”, Symposium of the International Schepens Society, Boston, MA. (May)  
Brain Tumor Conference, Division of Neurology, Brigham and Women’s Hosp. (May)  
Schepens Eye Research Institute, Boston, MA. (August)  
Harvard/Radcliffe Science Alliance, Cambridge, MA. (September)  
Department of Genetics, Harvard Medical School, Boston, MA. (December)

## **1998**

“Cell-cell Interactions in Vessel Formation”, American Association for Cancer Research Special Conference on Angiogenesis and Cancer, Orlando, FL. (January)  
Oncology Group, BASF Biomedical Corporation, Worcester, MA. (March)  
Fundamental Issues in Vision Research: Molecular and Cellular Approaches, Marine Biology Laboratory, Woods Hole, MA. (August)  
Ariad Pharmaceuticals, Cambridge, MA. (September)  
Creative Biomolecules, Hopkinton, MA. (September)  
Biogen Corp., Cambridge, MA. (October)  
“Biology of Smooth Muscle and Endothelial Interactions”, American Society of Nephrology, 31st Annual Meeting & Scientific Exposition, Philadelphia, PA. (October)

## **1999**

“Growth Factors in Vascular Angiogenesis,” Hematology/Oncology Teaching & Research Seminar, New York University, New York, NY. (January)  
Vascular Research Division, Brigham & Women’s Hospital, Boston, MA. (February)  
Cardiovascular Research Division, St. Elizabeth’s Medical Center, Boston, MA, (February)  
Boston University, Boston, MA. (March)  
“The Role of Cell-Cell Interactions and Growth Factor in the Regulation of Vessel Development and Growth”, The Johns Hopkins University School of Medicine, The Wilmer Ophthalmological Institute, Baltimore, MD. (March)  
“Understanding The Regulation of New Vessel Growth: Cell and Molecular Studies,” The Thirteenth Joseph Smiddy Memorial Lectureship in Ophthalmology, The Wilmer Ophthalmological Institute, Baltimore, MD. (March)  
“Angiogenesis: Cellular and Molecular Regulation,” American Society of Hypertension, New York, NY. (May)  
“Angiogenesis”, 21st Biennial Cornea Research Conference, Schepens Eye Research Institute, Boston, MA. (September)

## **2000**

Department of Pathology Seminar, Beth Israel Deaconess Medical Center, Boston, MA, (May)  
Johns Hopkins University Center for Talented Youth, Invited Speaker. (May)  
“Growth Factors and Cell-Cell Interactions in the Control of Vascular Development and Growth.” Hospital Sainte-Justine, Montreal, Canada. (May)  
International Union Against Cancer Study Group Meeting on Basic and Clinical Cancer Research, Woods Hole, MA. (June)

“Angiogenesis.” Mars Nutrition Research Council meeting, New York, NY. (September)  
“Paracrine Regulation of Endothelial Growth,” Boston Angiogenesis Meeting,  
Boston, MA. (November)  
“Paracrine Regulation of Vascular Development & Remodeling,” Genzyme Corporation, Framingham,  
MA. (December)  
Biomolecular Seminar Series, Boston University, Boston, MA. (December)

## **2001**

“Cellular Interactions During Vascular Development,” Pediatric Academic Societies’ Meeting 2001  
Annual Meeting, Baltimore, MD. (April)  
Department of Surgery Seminar, Beth Israel Deaconess Medical Center,  
Boston, MA, (April)  
Oral Biology, The Forsyth Institute, Boston, MA. (September)  
“Paracrine Regulation of Vessel Formation and Stability,” Boston Angiogenesis Meeting, Boston, MA.  
(November)

## **2002**

Department of Radiation Oncology, Massachusetts General Hospital, Boston, MA. (March)  
Program in Cell, Molecular and Developmental Biology Seminar Series, Tufts University School of  
Medicine, Boston, MA. (September)  
Gastrointestinal Unit Research Seminar Series, Massachusetts General Hospital,  
Boston, MA. (September)

## **2003**

Genzyme Corp., Cambridge, MA. (June)  
Massachusetts Health Council, tribute to Drs. John Auerbach and Judah Folkman,  
Waltham, MA. (October)  
“Frontiers in Cancer Invasion and Metastasis,” Dana Farber/Harvard Cancer Center Program in  
Development on Angiogenesis, Invasion and Metastasis, Boston, MA, (March)  
Massachusetts Institute of Technology/Massachusetts General Hospital Joint workshop, Boston, MA.  
(May)

## **2004**

Matrix Biology Seminar Series, Beth Israel Deaconess Medical Center. (April)  
Department of Biology, Wesleyan University. (October)  
5th Annual Minority Undergraduate Recruitment Day, Harvard Medical School, (November)  
A Century of Biology at Boston University, Boston, MA (November)  
Anylam Pharmaceuticals, Ocular Angiogenesis Targets. (December)

## **2005**

Biology Department Seminar Series, University of Massachusetts (January)  
Compound Therapeutics, Waltham, MA. (June)  
“Women in Science,” American Medical Women’s Association,  
Tufts University School of Medicine. (May)  
NHLBI Arteriogenesis Working Group, National Institutes of Health,  
Bethesda, MD, (September)  
Session Chairperson: Anti-Angiogenesis and Drug Delivery in Tumors: Bench to Bedside and Back,  
Waltham, MA. (November)

## **2006**

Langer Lab Seminar, Mass. Institute of Technology, Cambridge, MA. (September)  
Momenta Pharmaceuticals, Cambridge, MA. (October)  
Univ. of North Carolina School of Medicine, Integrated Vascular Biology Program. (October)

## **2007**

Vascular Cell Biology, Gordon Research Conference, Ventura, CA, February 2007.  
Center for Excellence in Vascular Biology, Brigham & Women's Hospital,  
Boston, MA. (April)  
Novartis Retinal Expert Panel Meeting, Indian Wells, CA. (December)  
University of Alabama, Birmingham, AL. (April)

## **2008**

Department of Cancer Biology's Cancer Metastasis Research Program Seminar Series, MD Anderson,  
Houston, Texas, (February)  
American Society of Investigative Pathology, Molecular Mechanisms of Disease, Washington, D.C.  
(July)  
5th Annual Symposium of Cellular, Molecular, and Clinical Research in Surgery;  
Children's Hospital, Boston, MA. (December)

## **2009**

Aileron Therapeutics, Inc., AMD and Angiogenesis-related Eye Diseases,  
Cambridge, MA (March)  
The Warren Alpert Foundation, Angiogenesis and Proliferative Diabetic Retinopathy, Boston, MA  
(October)  
Cole Eye Institute, Cleveland Eye Clinic (October)  
Boston Angiogenesis Meeting, Keynote Speaker, Boston, MA (November)

## **2010**

ARVO 2010 Summer Eye Research Conference, Diabetic Retinopathy: Approaches to a Global  
Epidemic. Bethesda, MD (July)  
Vision Club Speaker, University of Oklahoma Health Sciences Center, Department of Ophthalmology  
(November)

## **2011**

Visiting Professor, Grand Rounds, Department of Ophthalmology, University of  
California San Francisco (April).  
Judah Folkman Lecturer, Gordon Research Conference on Angiogenesis, Newport, RI, (August).  
NIH/NIDDK - Mechanisms of Organ Repair & Regeneration, Elliott City, MD (September).  
Lasker/IRRF Initiative for Innovation in Vision Science-Diabetic Retinopathy, Woods  
Hole, MA (July).  
Grand Rounds, Program in Diabetes, University of Massachusetts Medical School Worcester, MA  
(March).  
Visiting Professor, Translational Mini-Symposium Series: Clinical Approaches & Scientific Advances in  
Ophthalmology, University of Kentucky Lexington, Kentucky (December).  
Distinguished Visiting Lecturer, Ross Eye Institute, Buffalo, NY (October).

## **2012**

Speaker, Department of Pathology & Laboratory Medicine, A novel mechanism for the regulation of inflammation, Boston University, Boston, MA (March).  
Visiting Professor, University of North Texas Health Science Center at Fort Worth, Role and regulation of VEGF in the adult, Ft. Worth, TX (April).  
Rous Whipple Lecture, American Society for Investigative Pathology Annual Meeting, The many roles of VEGF in the adult, San Diego, CA (April).  
Speaker, Department of Cell Biology, SUNY Downstate Medical Center, Role and regulation of VEGF in the adult: implications for anti-VEGF therapies, Brooklyn, New York (October)  
Speaker, Department of Pharmacology & Therapeutics, University of Florida College of Medicine, Novel Mechanisms for the Regulation of Inflammation, Gainesville, FL (December)

## **2013**

Speaker, University of Utah, Moran Eye Center, Role of VEGF in the adult implication for anti-VEGF therapies, Salt Lake City, Utah (February)  
Speaker, Boston University School of Medicine, Scleroderma Center of Research Translation and Core Centers, A novel mechanism for the regulation of inflammation, Boston, MA (February)  
Speaker, USCAP2013, Society for Cardiovascular Pathology, Angiogenesis in Disease, Baltimore, MD (March)  
Speaker, Vanderbilt University Medical Center, Nashville, TN (April)  
Chair, Session on Angiogenesis in Physiology and Pathology, ASIP Annual Meeting, Boston, MA (April)  
Speaker, UT Health Science Center, "Role of VEGF in the Adult: Implications for Anti-VEGF Therapies," San Antonio, TX (April).  
Speaker, Vanderbilt University Medical Center, "Vascular Biology," Nashville, TN (April).  
Speaker, Munich, Germany (June)  
Faculty Member, Venice Ophthalmology Summer School, Servolo Island, Italy (July).  
Speaker, 13th Euretina Congress, "Physiological roles for VEGF in the eye: Implications for Anti-VEGF therapy," Hamburg, Germany (September).  
Frontiers in Medicine: Tackling Therapeutic Challenges for the 21st Century, "The eye in diabetes: a model for diabetic complications and their treatment." Beth Israel Deaconess Medical Center (October).

## **2014**

Invited Speaker, Sixth Annual Arnold and Mabel Beckman Initiative for Macular Research, Task Group, Irvine, CA (January).  
Invited Speaker, Faculty Development Seminar: Communication Series, Mass General Hospital, "Grant Writing Series Part III: Advice for the NIH Research Plan." (April)  
Endre A. Balazs Prize Lecture, International Society for Eye Research, San Francisco, CA (July)  
The Microcirculatory Society at Vascular Biology 2014, "NG2-dependent contributions of pericytes and macrophages to tumor vascularization," Asilomar, CA (October)  
Invited Speaker, Vascular Biology & Therapeutics, "VEGF in the Adult: Implications for Anti-VEGF therapy," Cardiovascular Medicine, Yale University (November)

## **2015**

Lecture, American Society of Investigative Pathology Education Committee, "Inflammasome and Age-Related Macular Degeneration," Boston, MA (March)  
Invited Speaker, Vision Academy Annual Meeting, Bayer HealthCare Pharmaceuticals, "VEGF in eye disease: Discovery, therapeutics and future perspectives, Amsterdam, The Netherlands (March)

Invited Speaker, ARVO Achievement Award Lecture, “Regulation of retinal vascular growth: development, pathology and therapy,” Denver, Colorado (May)  
 Keynote Speaker, The Harold F. Dvorak Plenary Lecture Award, Beth Israel Deaconess Medical Center, Center for Vascular Research, 11<sup>th</sup> Annual Retreat (June)  
 Invited Panelist, Faculty Development Seminar on Grant Writing, Massachusetts General Hospital, Office for Research Career Development (August)  
 Invited Speaker, Frontiers in Vision Science 2015, New England Eye Center at Tufts Medical Center, Tufts University School of Medicine, “Investigation of endomucin as a novel regulator of inflammation and angiogenesis,” Boston, MA (September)

**Report of Education of Patients and Service to the Community:**

1995 Johns Hopkins University Institute for the Academic Advancement of  
 2003 Youth, Career Symposia Boston University  
 1999 Invited Speaker, “Recent Trends in Anti-Cancer Therapy,” American Cancer Society’s Fall Staff Conference, Wakefield, MA  
 2000 Invited Speaker, “Advances in Cancer Research,” American Cancer Society’s Daffodil Days Campaign, Boston, MA  
 2000 Invited Speaker, “Progress in Cancer Research,” American Cancer Society Fundraising Reception, Burlington, VT  
 2000 Program Moderator, Annual Massachusetts Breast Cancer Research Grants Program, Boston, MA  
 2000 Invited Speaker, “New Trends in Anti-Cancer Treatment”, American Cancer Society, Longmeadow, MA  
 2000 Guest Speaker, 2000 Annual Dinner, American Cancer Society, Providence, RI  
 2001 Program Moderator, Breast Cancer Symposium, Massachusetts Dept. of Public Health Service, Boston, MA  
 2004, 2006, 2007, 2008, 2010, 2011, 2014- Walker, 3-Day Walk for Breast Cancer, Boston, MA, Komen for the Cure  
 2004 Solving the Vision Loss Crisis Panel, Massachusetts Association for the Blind Community Service  
 2005 Speaker, Mothers of Inspiration, One Family Campaign Annual Gala  
 2006 Mentor, One Family Scholar, Boston, MA  
 2008 Symposia on Macular Degeneration and Other Blinding Eye Diseases, West Palm and Vero Beach, FL. (February)  
 2010 Macular Degeneration and Other Blinding Eye Diseases Symposium. Schepens Eye Research Institute, Boston, MA (May).  
 2011 Mass-AWIS Academic Career Panel, Harvard Medical School, (June).  
 2015 Invited Speaker, Schepens Eye Research Institute-Mass Eye and Ear Symposia, Sarasota, FL (March)  
 2015 Massachusetts Lions, Woburn, MA (June)

**Report of Scholarship:**

**Peer-Reviewed Publications in print or other media**

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14. Galloway AC, Pelletier R, **D'Amore PA**. Do ischemic hearts stimulate endothelial cell growth? *Surgery*, 1984 Aug; 96:435-439. PMID: 6463872.
15. Watkins MT, Sharefkin JB, Zajtchik R, Maciag TM, **D'Amore PA**, Ryan US, Van Wart H, Rich NM. Adult human saphenous vein endothelial cells: assessment of their reproductive capacity for use in endothelial seeding of vascular prostheses. *J Surg Res.*, 1984 Jun; 36:588-596. PMID: 6328116.
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#### Narrative Report

I have been involved in the field of angiogenesis for 38 years, beginning in 1977 when I published my first paper entitled, "Stimulation of growth and calcium influx in cultured bovine aortic endothelial cells by platelets and vasoactive substances," which appeared in the *Journal of Cell Physiology* in 1977. Angiogenesis is a complication of a number of common eye diseases, including very common pathologies such as diabetic retinopathy and the wet form of macular degeneration. In both of these cases, new blood vessels grow in places where they normally do not grow. Furthermore, these new blood vessels are very leaky and as a result fluid can accumulate and disrupt vision. The protein,

vascular endothelial growth factor (VEGF), has been shown to be involved in both tumor angiogenesis and the angiogenesis associated with diabetic retinopathy and macular degeneration. The work conducted in my laboratory and in collaboration with investigators at Massachusetts Eye and Ear Infirmary, formed the basis for the current use of anti-angiogenic therapies for diabetic retinopathy.

I received my Ph.D. in Biology in 1977 from Boston University. Since then, I have published 145 papers in such journals as *Nature Medicine*, *Journal of Clinical Investigation*, *Development*, and *Journal of Cell Biology*, focusing on vascular growth and development with an emphasis on blood vessel growth in the retina. I did my postdoctoral training at Johns Hopkins Medical School in Biological Chemistry and Ophthalmology and went on to obtain an MBA from Northeastern University. I am currently the Charles L. Schepens Professor of Ophthalmology, Professor of Pathology, and Vice Chair of Basic Research, at Harvard Medical School, Director of the Howe Laboratory, and Associate Chief of Basic and Translational Research at Mass Eye and Ear, Research Associate in Surgery at Children's Hospital, and Senior Scientist, Director of Research, and the Ankeny Scholar of Retinal Molecular Biology at the Schepens Eye Research Institute. Twenty-five percent of my time is spent teaching at Harvard Medical School where I have taught courses in Pathology, Vertebrate Cell Biology, Molecular Bases of Eye Disease, Endothelial Physiology, Human Pathology, and this year in Vertebrate Developmental Biology. Since 1994, I have been a Lecturer in the Research Update in Neuroscience for Neurosurgeons (RUNN) at the Marine Biology Laboratory in Woods Hole, Massachusetts.

I am the recipient of a number of awards, which include The Alcon Research Award and the Cogan Award. In 2004, I was elected to The Academy at Harvard Medical School and, in 2006 I won both the Senior Scientific Investigator Award from Research to Prevent Blindness and the A. Clifford Barger Excellence in Mentoring Award from Harvard Medical School. In 2009, I was appointed an ARVO Fellow, a new award from the Association for Research in Vision and Ophthalmology, which recognizes members for leadership, dedication and contributions to ARVO. In 2010, I delivered the 5th Annual Jeffrey M. Isner, M.D. Endowed Memorial Lectureship, and I am the recipient of the 2012 Rous-Whipple Award from the American Society of Investigative Pathology. In November of 2012, I was elected Director of Research of the Schepens Eye Research Institute. In 2013, I received the Everett Mendelsohn Excellence in Mentoring Award from Harvard Medical School, and delivered the Hans Vilbertn Lecture at the University of Regensburg in Bavaria. In addition, I received the Women Physicians Sector Mentorship Award from the American Medical Association, and chosen for the Marcelle Jay Room Display Celebrating Women in Ophthalmology from University College London. In 2014, I was the recipient of the Endre Balazs Prize from the International Society for Eye Research, a Laureate of the António Champalimaud Award, and in 2015 I won the Proctor Medal from the Association For Research & Vision Ophthalmology. Fifty per cent of my time is spent on my duties as Director of Research and associated activities and 65-70% is spent on my research. I have directly supervised and mentored 62 trainees, six of whom are now full Professors.