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Education: 1973 BA Regis College, Weston, MA
1977 PhD 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, M.D.

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
 2011-2016 Member, HMS Loan Forgiveness Programs
 2011-2013 Member, Subcommittee of Professors
 2012- Member, Executive Committee, Scholars in Medicine
 2012 Co-Chair, Second Biennial Symposium on Age Related Macular Degeneration, Department of Ophthalmology
 2014 Review Panel, William F. Milton Fund of Harvard University
 2014 Co-Chair Third Biennial Symposium on Age Related Macular Degeneration
 2015 Voting Member, Harvard Medical School Promotion & Review Board
 2016 Co-Chair Fourth Biennial Symposium on Age Related Macular Degeneration
 2016 Ophthalmology Department Representative, Executive Committee on Research (ECOR), MGH

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
2013- Member, Association for Investigative Pathology Education Committee
2014- Member, External Advisory Committee, "Training Grant in Mechanisms of Vascular Disease"
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
 2016 Member, Scientific Review Committee, Fight for Sight

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
 2015- Editorial Board Member, The Journal of the Federation of American Societies for Experimental Biology

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, M.D. 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 th 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
2016	William Silen Lifeteime Achievement in Mentoring Award, Harvard Medical School

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 No cost extension
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 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 Co-investigator NEI/NIH 5R01EY012509-15
PDGF and PVR (PI: Hetian Li)
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 and angiogenesis
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

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./ Transferred to New Zealand
Program in Cell and Developmental Biology, Harvard Medical School
- 1989-1993 Sandra Dethlefsen, Ph.D./ Scientist, Genzyme Corp., Cambridge, MA
Department of Biology, Boston University
- 1990-1994 Po-Tsan Ku, Ph.D./ Dir., Career Development, College of Natural Sciences, University of Texas, Austin
Program in Cell and Developmental Biology, Harvard Medical School
- 1991-1995 David Shima, Ph.D./ Prof., University College London
Program in Biol. and Biomedical Sciences, Harvard Medical School
- 1994-2000 Claudia Garcia, Ph.D./ Sr. Scientist, Dept. Ophthalmology, Washington University, St. Louis, MO
Program in Biol. and Biomedical Sciences, Harvard Medical School
- 1994-2000 Eric Ng, Ph.D./ Assistant Professor, Schepens Eye Research Inst., Assistant Professor, Harvard Medical School
Program in Biol. and Biomedical Sciences, Harvard Medical School
- 1994-2000 Lawrence Beck, M.D., Ph.D/ Instructor in Medicine, BU School of Medicine
Program in Biol. and Biomedical Sciences, Harvard Medical School
- 1998-2003 Anne Goodwin, Ph.D./ Asst. Prof., North Adams State College, MA
Program in Biol. and Biomedical Sciences, Harvard Medical School
- 1999-2005 Robyn Loureiro, Ph.D./ Senior Scientist, Shire, Lexington, MA
Curriculum in Genetics and Molecular Biology, UNC
- 2004-2007 Wendy Chao, Ph.D./ Admin Manager, Dept. of Ophthalmology, MEEI, Boston, MA
Program in Biol. and Biomedical Sciences, Harvard Medical School
- 2003-2007 Arindel Maharaj, M.D., Ph.D./ Assistant Professor of Clinical Ophthalmology, Bascom Palmer Eye Institute, U. of Miami
- 2007-2011 Knatokie Ford, M.S./ Senior Policy Advisor at The White House Office of Science and Technology Policy
Program in Biological & Biomedical Sci., HMS
- 2009-2102 Mandrita Datta, Ph.D./ Sr. Mgr., Pfizer
Program in Biological & Biomedical Sciences, HMS
- 2009-2014 Wen Allen Tseng, Ph.D./ Postdoctoral Fellow, Massachusetts Institute of Technology
Program in Biological & Biomedical Sci., HMS, NRSA Predoctoral Fellowship
- 2011-2014 Cammi Valdez, Ph.D./ Asst. Dir., Undergraduate Research, Harvard University, Cambridge, MA
Program in Biological & Biomedical Sci, HMS, NSF Grad. Research Fellowship Program

Medical Students

- 1986-1988 Susan Connolly, M.D./ Ophthalmology, Palo Alto Medical Foundation
Harvard Medical School 1989, Magna cum laude, "Characterization of Vascular Development in Mouse Retina"
- 1987-1988 Keith Paige, M.D./ Plastic Surgeon, Swedish Medical Center-First Hill, Seattle, WA
Harvard Medical School 1989, Cum laude, Recipient of Harold Lampton Biomedical Best Paper Reporting Original Research in Biomedical Sciences, "Retinoids as a Differentiating Agent in Endothelial Cells"
- 1987-1988 Galen Grayson, M.D./ Clinician, Carolinas HealthCare System Ophthalmology Care
Harvard Medical School 1988
- 1992-1995 George Sakoulas, M.D./ Infect. Disease Specialist, Crystal Run Healthcare, Middletown, NY
Harvard Medical School, 1995, Cum laude, "The Role of bFGF in Duodenal Ulceration: A New Mediator in an Old Disease"
- 2014-2015 Daniel Oh, M.D./ Residency, Illinois Eye and Ear
Harvard Medical School-Harvard/MIT Health Sciences & Technology track

Postdoctoral Fellows

- 1981-1983 Gitlin, Jonathan, M.D./ Deputy Director of Research & Programs, Marine Biology Lab, Woods Hole, MA
- 1983-1989 Alicia Orledge, Ph.D./ Health care, Recipient of NIH-NRS Postdoctoral Fellowship 1984-1987, deceased
- 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./ Writer, Toronto, Canada
Recipient of Research Fellowship, Heart and Stroke Foundation of Canada
- 1991-1995 Andrea Dodge, Ph.D./ Instructor, North Shore Community College, MA
Recipient of NIH-NRS Postdoctoral Fellowship 1991-1994
- 1994-1997 Karen Hirschi, Ph.D./ Professor, Section of Cardiovascular Medicine, Yale Univ., New Haven, CT
Recipient of NIH-NRS Postdoctoral Fellowship 1994-1997,
- 1994-1997 Cynthia Grosskreutz, M.D., Ph.D./ Director of Research, Novartis, Cambridge, MA
Recipient of NIH Physician Scientist Award 1994-1999
- 1995-1996 Cecile Duplaa, Ph.D./ Research Director, INSERM, Pessac, France
Recipient of Fulbright Fellowship
- 1995-1996 Jianming Dong, M.D., Ph.D./ Private practice neurologist, Peoria, IL
- 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./ Assistant Professor, University of North Dakota
Recipient of NIH-NRSA Postdoctoral Fellowship 1998-2001
- 2000-2002 Eric Ng, Ph.D./ Assistant Professor, Ophthalmology, Schepens Eye Research Institute-Mass. Eye and Ear, Harvard Medical School
- 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./ Research Associate, Syracuse Biomaterials Institute
NRSA, 2004 – 1 F 32 CA105734
- 2002-2009 Magali Saint-Geniez, Ph.D./ Assistant Professor, Schepens Eye Research Inst.,
Assistant Professor, Harvard Medical School
- 2003-2006 Scott Plotkin, M.D., Ph.D./ Associate Professor, Neurology, MGH, HMS, Boston
- 2005-2006 Kazuichi Maruyama, M.D., Ph.D./ Associate Professor, Ophthalmology, Tohoku University Graduate School of Medicine
Recipient of Gordon Research Conference Travel Award 2006
- 2005-2007 Robyn Loureiro, Ph.D./ Senior Scientist, Shire, Lexington, MA
Curriculum in Genetics and Molecular Biology, UNC
- 2006-2008 Brad Bryan, Ph.D./ Asst. Professor, Texas Tech University
- 2006-2011 Tony Walshe, Ph.D./ Senior Scientist, Novartis, Boston, MA
Knights Templar Grant
- 2007-2009 Eiichi Sekiyama, M.D., Ph.D./ Clinician in Ophthalmology, Kyoto Prefectural University in Medicine
Recipient of Bausch & Lomb Overseas Research Award
- 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./ Sr. Scientist, Johnson & Johnson, Skillman, NJ

Recipient of MBED Fellowship

2009-2011 Sunita Patel-Hett, Ph.D./ Sr. Scientist, Pfizer, Cambridge, MA

2009-2010 Kati Kinnunen, Ph.D./ Assistant Professor, University of Kuopio, Finland

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

2011-2016 Leo Kim, M.D., Ph.D./ Assistant Professor, Schepens Eye Research Inst., Assistant Professor, Harvard Medical School

K12 Recipient

2011-2015 Jinling Yang, Ph.D./ Postdoctoral Fellow, BU, Boston, MA

Role of endomucin in inflammation, NIH, EY05318-25, Cell-cell

2012- Cindy Park-Windhol, Ph.D.

Role of endomucin in angiogenesis

Fellowship, Molecular Bases of Eye Disease Training Grant

Fellowship, Knights Templar

2013- Gopalan Gnanaguru, Ph.D.

Lipids and AMD

Grimshaw Foundation

2014- Machuca-Parra, Arturo

Notch receptor/ligand protein-protein interactions

Mexico Conyac (Mexican Institute of Health)

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

1987-1988 Hank Frissora, M.D./ Surgeon, BIDMC, Boston

1994-1996 Stephanie Rohovsky, M.D./ Surgeon, BIDMC, Boston

Harvard-Longwood Research Training Fellow

1997-2000 Louis Nguyen, M.D./ Associate Professor of Surgery, Harvard Medical School, Brigham & Women's Hospital, Boston

Harvard-Longwood Research Training Fellow

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

1999-2001	Program in Biological and Biomedical Sciences, HMS Rani Dhavan
2000-2005	Program in Biological and Biomedical Sciences, HMS Leslie Frieden, Ph.D.
2003-2009	Program in Biological and Biomedical Sciences, HMS Julia Sero, Ph.D.
2003-2008	Program in Biological and Biomedical Sciences, HMS Joseph Arboleda, Ph.D. (Chair)
2005-2007	Program in Biological and Biomedical Sciences, HMS Kush Pumar, M.D., Ph.D. (Chair)
2006-2009	Program in Biological and Biomedical Sciences, HMS Corrine Nielsen, Ph.D.
2007-2009	Program in Biological and Biomedical Sciences, HMS Scott Potenta, M.D., Ph.D.
2008-2010	Program in Biological and Biomedical Sciences, HMS Vida de Arce, Ph.D.
2011-	Program in Biological Sciences in Dental Medicine Kelli Carroll, Ph.D.
2011-2013	Program in Biological and Biomedical Sciences, HMS Peter Yang, Ph.D.
2011-	Program in Biological and Biomedical Sciences, HMS Cholsoon Jang, Ph.D.
2011-	Program in Biological and Biomedical Sciences, HMS Teresa Peterson, Ph.D.
2013-	Program in Biological and Biomedical Sciences, HMS Jamie Lahvic
2015-	Program in Biological and Biomedical Sciences, HMS Brian Chow
	Program in Neurosciences, HMS

Laboratory and Other Research Supervisor and Training Responsibilities

1984-1986	Jeffrey Jacob, MD Pediatric Allergy/Immunology, Pediatrics Northwest, Seattle, WA
1999-2003	Lauren J. Massingham, MD, Medical Genetics, Pediatrics, Tufts Medical Center, Boston, MA
2010-2012	Amber Cussen, OD/ PhD candidate, University of Michigan
2008-2010	Lindsay Leach PhD candidate, University of California at Santa Barbara
2012-2014	Vincent Primo PhD candidate, Boston College
2014-	Alex Bigger-Allen PhD candidate Biological and Biomedical Sciences Program, Harvard Medical School

Summer Students

1994	Ako Bradford/ Summer Honors Undergraduate Research Program
2002, 2006	Thalia Segal/ Clinical Instructor, Obstetrics and Gynecology, CWRU School of Medicine Cornell University, Summer Intern
2003-2005	Alissa Cohen/ Ph.D. Candidate, Developmental Biology and Cancer Research, Hebrew University of Jerusalem Wellesley College, Summer Intern
2001 & 2002	Kaitlyn Sullivan/ McGill University, MSc., McGill University
2004	Talia Wong, H.S.
2005	Kabir Matharu/ Researcher, Dept. of Linguistics, Koori Centre, Univ. of Sydney Cornell University, Summer Intern

2006	Josh Havumaki, UMass Amherst, MPH/ Biostatistics & Data Manager, FIND Diagnostics, Geneva, Switzerland
2006	Sunjay Mathur, Suffolk University/ Psychiatrist, Ann Arbor, Michigan
2013	Meera Dave/ Meharry Medical College, M.D. candidate
2014	Carly Eiduson, Tufts University (Fall, 2015), Kevin Tso (high school students)
2015	Shreyek Khadka, Margaret Reynolds (high school students)

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)

"Endomucin as an anti-inflammatory agent". Patent No. 9,365,627, June 14, 2016.

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- β ". 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)
Burlax 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- β ." American Thoracic Society, World Conference on Lung Health. Boston, MA (May)
"Pericyte-Endothelial Cell Interactions Regulate Vascular Growth: Role of TGF- β ". 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)

Departments of Ophthalmology 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, Depart. 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, 11th 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)
Invited Speaker, SUNY College of Optometry, Graduate Center for Vision Research, “Role of VEGF in the Adult: Implications for Anti-VEGF Therapies,” New York, NY (October)
Invited Speaker, Cerebrovascular Science: Getting Started, Mass General Hospital, “Strategies for Grant Preparation,” Boston, MA (October)
Invited Speaker, Eastern Virginia Medical School, Department of Physiological Sciences, “Endomucin: A novel regulator of inflammation and angiogenesis.” Norfolk, VA (November)

2016

Invited Speaker, Seminar Series, Cardiovascular Research Center (February)
Keynote Speaker, Lighthouse of Manitoba Gala, “New Hope for Vision.” Sarasota, FL (April)
Invited Speaker, Molecular Medicine Series, Tufts Medical Center, “A Role for Endomucin, a Novel Endothelial-Specific Mucin, in the regulation of Inflammation and Angiogenesis.” Boston, MA (June)
Invited Speaker, Immunotherapy for the Treatment of AMD; A Preclinical Evaluation Workshop, Trinity College Dublin, “The nature of VEGF signaling and geographic atrophy/neovascular AMD.” Dublin, Ireland (July)
Keynote Speaker, Visual System Development Symposium, Gordon Research Conference, “Retinal Vascular Development and Pathology.” West Dover, VT (August)
Invited Speaker, The 16th Congress of the European Retina, Macula and Vitreous Society (EURETINA), “What makes and keeps neovascularization growing: The biology of neovascular AMD?” Copenhagen, Denmark (September)
Invited Speaker and Moderator, XXII Biennial Meeting, International Society for Eye Research, “Lipids, Inflammasomes, and Age-related Macular Degeneration (AMD).” Tokyo, Japan (September)
Invited Speaker, Student Data Club & Faculty Seminar Series, Developmental & Regenerative Biology Program, “Endomucin: a novel regulator of vascular development.” Boston, MA (October)

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)
- 2016 Panel Member, National youth Leadership Forum: MED Boston

Report of Scholarship:

Peer-Reviewed Publications in print or other media

1. **D'Amore PA**, Shepro D. Stimulation of growth and calcium influx in cultured bovine aortic endothelial cells by platelets and vasoactive substances. *J Cell Physiol.*, 1977 Aug; 92:177-183. PMID: 18482.
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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 151 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 University, and delivered the Hans Vilbert 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. In 2016, I received the William Silen Lifetime Achievement in Mentoring Award from Harvard Medical School. Sixty per cent of my time is spent on my duties as Director of Research and associated activities and 40% is spent on my research. I have directly supervised and mentored 62 trainees, six of whom are now full Professors.