

**Date Prepared:** April 23, 2005

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Boston, MA 02114

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**FAX:** 617-912-0128

**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

**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

**Academic Appointments:**

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

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

1982-1988 Assistant Professor, Department of Pathology,  
Harvard Medical School

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

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

1993- Program in Biological and Biomedical Sciences  
Harvard Medical School

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

**Hospital/Affiliated Institution Appointments:**

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

1998- Senior Scientist, Schepens Eye Research Institute

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

2002- Associate Director of Research, Schepens Eye Research Institute

### Major Committee Assignments:

#### Harvard Medical School:

1985-1995 Fellow of the Oliver Wendell Holmes Society,  
Harvard Medical School

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

1988- 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- Minority Recruitment Committee  
Division of Medical Sciences

1993-1996 Harvard-Radcliffe Science Alliance

1993- Steering Committee, Prog. 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

1995- Summer Honors Undergraduate Research Program (SHURP)

1996- 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 Joint Committee on the Status of Women

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

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

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

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

2002-2005 Subcommittee of Professors, Faculty of Medicine

2002-2005 Faculty Council

2003-2004 Faculty Council Docket Committee

2003- Chair, Program in Development in Angiogenesis, Invasion & Metastasis,  
Dana Farber/Harvard Cancer Center

2003- Selection Committee Panel, 50<sup>th</sup> Anniversary Program for Scholars in  
Medicine

2003-2004 Ad Hoc Search Committee  
Harvard Medical School/Massachusetts Eye and Ear Infirmary, Department  
of Otolaryngology

2004- Faculty Diversity Committee

|           |   |
|-----------|---|
| 2004-2005 | Standing Committee on Higher Degrees in Dental Medicine, Faculty of Arts & Sciences     |
| 2004-     | Harvard-Vision Clinical Scientist Development Program Advisory Committee                |
| 2005-     | "New Markey" Biomedical Sciences Program, Steering Committee                            |
| 2005-     | Medical Education Reform Initiative, Advanced Experiences in Clinical Medicine & Design |

**Affiliated Institution:**

|           |   |
|-----------|---|
| 1998-     | Member, Responsible Conduct of Research Committee<br>Schepens Eye Research Institute          |
| 1999      | Member, Internal Communications Committee<br>Schepens Eye Research Institute                  |
| 1999-     | Member, Research Planning & Review Committee<br>Schepens Eye Research Institute               |
| 1999      | Member, Scholars Selection Subcommittee<br>Schepens Eye Research Institute                    |
| 2000-2001 | Member, Broadhurst Seminars Series<br>Schepens Eye Research Institute                         |
| 2000-2002 | Member, Appointments & Promotions Committee<br>Schepens Eye Research Institute                |
| 2000      | Member, Core Grant Committee<br>Schepens Eye Research Institute                               |
| 2000-2001 | Member, Training Program Recruitment Committee<br>Schepens Eye Research Institute             |
| 2002      | Joslin Diabetes Center, Research Advisory Board   |
| 2002-     | Chair, Appointments & Promotions Committee, Schepens Eye Research Institute                   |
| 2002-2004 | Chair, SERI Seminar Series, Schepens Eye Research Institute                                   |
| 2002-     | Member, Department of Ophthalmology Executive Committee,<br>Massachusetts Eye & Ear Infirmary |
| 2004-     | Chair, SERI Training Committee, Schepens Eye Research Institute                               |
| 2004-     | Member, Institutional Leadership Committee, Schepens Eye Research Institute                   |

**National:**

|            |  |
|------------|--|
| 1983-1987  | Awards Committee, The Microcirculatory Society   |
| 1984       | National Institute of Child Health and Human Development<br>Special Study Section                                |
| 1985, 1987 | National Institute of Health Site Visits Committee   |
| 1987-1988  | Scientific Committee for the Vth International Symposium on<br>the Biology of the Vascular Endothelial Cell      |
| 1989-1990  | Scientific Committee for the VIIth International Symposium on<br>the Biology of the Vascular Endothelial Cell    |
| 1991-1993  | Program Planning Committee, Retinal Cell Biology Section<br>Association for Research in Vision and ophthalmology |
| 1991       | American Society for Cell Biology,<br>Local Arrangements Committee   |

- 1992-1996 National Institutes of Health Study Section  
Member, Cell Biology and Physiology-2
- 1993-1994 Scientific Committee for the VIIIth International Symposium on  
the Biology of the Vascular Cells
- 1993-1994 North American Vascular Biology Organization, 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
- National Eye Institute Retinal Disease Panel
- 1995-2003 The Johns Hopkins University Institute for the Academic Advancement of  
Youth, Career Symposia Boston University
- 1999 Founder & Chair, Gordon Research Conference on "Angiogenesis and  
Microcirculation"
- 1999 Chair, Boston Angiogenesis Meeting
- 1999 Reviewer, Basic Applications of Tumor Cell Biology for the Susan G.  
Komen  
Breast Cancer Foundation.
- 2000-2004 Member, Selected Professions Fellowships Awards Panel
- American Association of University Women Educational Foundation
- 2001 Awards Committee, Association for Research in Vision and Ophthalmology
- 2002 Member, Angiogenesis and Microcirculation Section of the Cell and Tumor  
Biology Subcommittee for the American Association for Cancer Research
- 2003 Distinguished Judge, Research Fellows Poster Exhibition, Brigham &  
Women's Hospital Research Council
- 2003 Special Emphasis Panel (Ad hoc), Somatosensory and Chemosensory  
Systems Study Section, NIH, Center for Scientific Review
- 2003- Scientific Advisory Board, AngioGenex
- 2003-2004 Susan G. Komen Breast Cancer Foundation grant review, Study Section  
Leader, Dissertation Applications
- 2005 Reviewer, Drug Development Group Review Panel, NCI, NIH

**International:**

- 2003- ARVO Awards Committee

**Professional Societies:**

American Association of University Women  
American Society of Cell Biologists  
American Society for Investigative Pathology  
Association of Research in Vision & Ophthalmology  
Microcirculatory Society  
North American Vascular Biology Organization  
The New York Academy of Sciences

**Community Service Related to Professional Work:**

- 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<br>Daffodil Days Campaign, Boston, MA  |
| 2000 | Invited Speaker   | “Progress in Cancer Research,” American Cancer Society<br>Fundraising Reception, Burlington, VT |
| 2000 | Program Moderator | Annual Massachusetts Breast Cancer Research Grants Program,<br>Boston, MA                       |
| 2000 | Invited Speaker   | “New Trends in Anti-Cancer Treatment”, American Cancer<br>Society, Longmeadow, MA               |
| 2000 | Guest Speaker     | 2000 Annual Dinner, American Cancer Society, Providence, RI                                     |
| 2001 | Program Moderator | Breast Cancer Symposium, Massachusetts Department of Public<br>Health Service, Boston, MA       |

### Teaching Experience:

#### **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 Conduct of Medical Science  
Faculty Participant in Discussion Group  
1991-1992 Co-organizer and faculty: Cell Biology 223, Cell Biology by the Case  
Method  
1993- Faculty Participant: Summer Honors Undergraduate Research Prog.  
1994 Organizer: Biological & Biomedical Sciences Prog. 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. Prog.  
2003 Lecturer: Tumor Pathophysiology and Transport Phenomena, HST/MIT  
2003 Tutor: Pathology IN714.0  
2004- Lecturer: Pathology 211

#### **Additional Teaching**

1994- Lecturer: Research Update in Neuroscience for Neurosurgeons ,  
Angiogenesis and Neoplasia, Marine Biology Laboratory, Woods Hole, MA

### Advising Responsibilities:

Undergraduate Students:

1994 (summer) Ako Bradford, Summer Honors Undergraduate Research Program

2002 (summer) Thalia Segal, Cornell University  
2003 (summer) Alissa Cohen, Wellesley College

Graduate Students:

1986-1992 Kim Saunders, Ph.D.  
Program in Cell and Developmental Biology, Harvard Medical School  
1989-1993 Sandra Dethlefsen, Ph.D.  
Department of Biology, Boston University  
1990-1994 Po-Tsan Ku, Ph.D.  
Program in Cell and Developmental Biology, Harvard Medical School  
1991-1995 David Shima, Ph.D.  
Program in Biological and Biomedical Sciences, Harvard Medical School  
1994-2000 Claudia Garcia, Ph.D.  
Program in Biological and Biomedical Sciences, Harvard Medical School  
1994-2000 Eric Ng, Ph.D.  
Program in Biological and Biomedical Sciences, Harvard Medical School  
1994-2000 Lawrence Beck, M.D., Ph.D.  
Program in Biological and Biomedical Sciences, Harvard Medical School  
1998- Anne Goodwin  
Program in Biological and Biomedical Sciences, Harvard Medical School  
1999-2002 Robyn Loureiro  
Curriculum in Genetics and Molecular Biology, University of No. Carolina  
2003- Wendy Chao  
Program in Biological and Biomedical Sciences, Harvard Medical School  
2003- Arindel Maharaj  
Program in Biological and Biomedical Sciences, Harvard Medical School

Medical Students:

1986-1988 Susan Connolly, Harvard Medical School, 1989  
MD. *magna cum laude*  
"Characterization of Vascular Development in Mouse Retina"  
1987-1988 Keith Paige, Harvard Medical School, 1989 MD. *cum laude*  
Recipient of Harold Lamport Biomedical Best Paper Reporting Original  
Research in Biomedical Sciences, "Retinoids as a Differentiating Agent in  
Endothelial Cells"  
1987-1988 Gaylen Grayson, Harvard Medical School, 1988  
1992-1995 George Sakoulas, Harvard Medical School, 1995 *cum laude*  
"The Role of bFGF in Duodenal Ulceration: A New Mediator in an Old Disease"

Postdoctoral Fellows:

1983-1989 Alicia Orlidge, Ph.D.  
Recipient of NIH-NRS Postdoctoral Fellowship 1984-1987  
1985-1988 Susan Braunhut, Ph.D.  
Recipient of NIH-NRS Postdoctoral Fellowship 1984-1986  
1986-1990 Deborah Damon, Ph.D.  
Recipient of NIH-NRS Postdoctoral Fellowship 1987-1989  
1989- 1994 Sandra Kostyk, M.D., Ph.D.  
Recipient of Physician Scientist Award 1991-1994  
1990- 1993 Amlan RayChaudhury, Ph.D.  
1991- 1995 Anne Gougos, Ph.D.  
Recipient of Research Fellowship from the  
Heart and Stroke Foundation of Canada  
1991-1995 Andrea Dodge, Ph.D.  
Recipient of NIH-NRS Postdoctoral Fellowship 1991-1994  
1994-1997 Karen Hirschi, Ph.D.

1994-1997 Recipient of NIH-NRS Postdoctoral Fellowship 1994-1997  
Cyndy Grosskreutz, M.D., Ph.D.  
1995-1996 Recipient of NIH Physician Scientist Award 1994-1999  
Cecile Duplaa, Ph.D.  
1995-1996 Recipient of Fulbright Fellowship  
Jianming Dong, MD, Ph.D.  
1996-2000 Qihong Xu, Ph.D.  
1996-1999 Rubai Ding, Ph.D.  
1998-2003 Diane Darland, Ph.D.  
2000-2002 Recipient of NIH-NRSA Postdoctoral Fellowship 1998-2001  
Eric Ng, Ph.D.  
2001-2003 Markus Ramsauer, Ph.D.  
2001-2002 Alexandra Lappas, Ph.D.  
2001- Eric Finklestein, Ph.D.  
NRSA, 2004 - 1 F 32 CA105734-01A1  
2002- Magali Saint-Geniez, Ph.D.  
2003- Scott Plotkin, M.D., Ph.D.  
2003 Mark Rosenblatt, M.D., Ph.D., Co-advisor with Dimitri Azar, M.D.  
2005- Maruyama Kazuichi, M.D.

Surgical Fellows:

1983-1984 Aubrey Galloway, M.D.  
1985-1987 Robert W. Thompson, M.D.  
1987-1988 Hank Frissora, M.D.  
1994-1996 Stephanie Rohovsky, M.D.  
Harvard-Longwood Research Training Fellow  
1997-2000 Louis Nguyen, MD  
Harvard-Longwood Research Training Fellow

Thesis 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<br>Program in Biological and Biomedical Sciences     |
| 2000      | Leslie Frieden<br>Program in Biological and Biomedical Sciences  |
| 2003      | Patrick Everley<br>Program in Biological and Biomedical Sciences |
| 2004      | Julia Sero<br>Program in Biological and Biomedical Sciences      |
| 2005      | Joseph Arboleda<br>Program in Biological and Biomedical Sciences |

#### **Editorial Boards:**

|           |   |
|-----------|---|
| 1989-1999 | Executive Editor, Experimental Eye Research     |
| 2003-2006 | Associate Editor, American Journal of Pathology |
| 2003-     | Co-editor, Microvascular Research               |
| 1986-     | Microvascular Research                          |
| 1992-     | Journal of Cellular Biochemistry                |
| 1993-     | Microcirculation                                |
| 1994-1999 | Journal of Vascular Research                    |
| 2001      | Molecular Vision                                |
| 1999-     | Laboratory Investigation                        |
| 1999-2004 | Endothelium                                     |
| 1999-2004 | Angiogenesis                                    |
| 2002-2005 | Molecular Cancer Research                       |

Regular Reviewer for *Diabetes, Investigative Ophthalmology and Visual Science, Journal of Cell Biology, Journal of Cellular Physiology, Journal of Clinical Investigation, and American Journal of Pathology.*

#### **Awards and Honors:**

|           |  |
|-----------|--|
| 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 Investigatorship            |
| 1992-1996 | Member, Cell Biology and Physiology Study Section II               |
| 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      | The Academy at Harvard Medical School                              |

#### **Major Research Interests:**

1. Vascular Growth Control
2. Molecular Control of Growth Factor Expression
3. Pathogenesis of Vasoproliferative Eye Disease
4. Cell-cell interactions

#### **Research Support:**

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

Current:

- 1984- Principal Investigator, NEI/NIH, EY05318-18  
Cell-cell Interactions in the Retinal Vasculature  
1987- 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- Sub-project Principal Investigator, R01EY014106  
Bioengineering Research Partnership Grant  
Live Microscopy and Cytometry in Vascular Biology  
2004- Principal Investigator, NEI/NIH, R01EY015435  
Role of RPE-derived VEGF in Choroid Development & Stability

**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)

**Regional, National, and International Contributions:**

Invited Lectures

**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, 1983.  
Department of Biology, Bowdoin College, Brunswick, ME. March, 1983.  
FASEB, Chicago, IL. April, 1983.

Seminars in Vascular Physiology Boston University, Boston, MA. November, 1983.  
Department of Pathology, Brigham and Women's Hospital, Boston, MA. November, 1983.  
Cell and Developmental Biology Seminar Series, Department of Biology, Boston, MA. December, 1983.

#### **1984**

Cell and Developmental Biology Program, Harvard Medical School, Boston, MA. March, 1984.  
Department of Pathology, Yale University School of Medicine, New Haven, CT. April, 1984.  
Max-Planck-Institut fur Entwicklungsbiologie, Tubingen, West Germany. September, 1984.  
Department of Physiology and Biophysics, Harvard Med School, Boston, MA. November, 1984.  
Longwood Medical Area Diabetes Seminar, Joslin Diabetes Center, Boston, MA. December, 1984.

#### **1985**

Pulmonary Center, Boston University School of Medicine, Boston, MA. February, 1985.  
Vascular Research Group, Tufts University School of Medicine, Boston, MA. December, 1985.

#### **1986**

Department of Pathology, McMaster University, Hamilton, Ontario. April, 1986.  
Department of Orthopedics, The Children's Hospital, Boston, MA. May, 1986.  
Department of Ophthalmology, Yale School of Medicine, New Haven, CT. October, 1986.

#### **1987**

Vascular Fellows of Boston Seminar Group, Harvard Club, Boston, MA. February, 1987.  
Department of Anatomy and Cellular Biology, Tufts Medical School, Boston, MA. February, 1987.  
Department of Biochemistry, Harvard University, Cambridge, MA. March, 1987.  
Department of Ophthalmology, Duke University Medical School, Durham, NC. April, 1987.  
Grand Rounds, National Eye Institute, Bethesda, MD. October, 1987.  
Vascular Research Seminar, New England Deaconess Hospital, Boston, MA. December, 1987.

#### **1988**

Massachusetts Eye and Ear Infirmary, Boston, MA. January, 1988.  
Hematology-Oncology Seminars, University of Connecticut, Farmington, CT. February, 1988.  
Department of Physiology, University of Virginia, Charlottesville, VA. March, 1988.  
Program in Cell and Developmental Biology, Harvard Medical School, Boston, MA. March, 1988.  
Programs in Atherosclerosis and Thrombosis, Harvard Medical School, Boston, MA. April, 1988.  
Department of Biology, Boston University, Boston, MA. April, 1988.  
Cardiovascular Group, Baylor College of Medicine, Houston, TX. May, 1988.

#### **1989**

Department of Medical Pathology, University of Minnesota, Minneapolis, MN. May, 1989.  
Somatix Corporation, Cambridge, MA. August, 1989.  
Eye Research Institute of the Retina Foundation, Boston, MA. September, 1989.  
2nd Intl. Conference in Ocular Circulation and Neovascularization, Baltimore, MD. Sept, 1989.  
Burlax Pharmaceutical, Cedar Knolls, NJ. October, 1989.  
Department of Pathology, U MASS Medical School, Worcester, MA. November, 1989.  
Newborn Medicine, The Children's Hospital, Boston, MA. November, 1989.

#### **1990**

Department of Anatomy, Harvard Medical School, Boston, MA. January, 1990.  
Physiological Society of Philadelphia Symposium on Growth Factors, Philadelphia, PA. Jan, 1990.  
Department of Pathology, Queens University, Ontario, Canada. March, 1990.

Department of Pathology, Washington University Medical School, Seattle, WA. May, 1990.  
Cutaneous Biology Research Center, Department of Dermatology, MGH, Boston, Ma. June, 1990.

Creative Biomolecules, Inc., Hopkington, MA. July, 1990.  
Department of Medicine and Surgery, New England Deaconess Hospital, Boston, MA. Sept, 1990.

### **1991**

Biogen, Inc. Cambridge, MA. January, 1991.  
Seminars in Vascular Biology Series, Harvard Medical School, Boston, MA. May, 1991.  
New York University Medical Center, New York, NY. May, 1991.  
Department of Endocrinology, Rhode Island Hospital, Providence, RI. October, 1991.  
Cardiovascular Group, Massachusetts General Hospital East, Boston, MA. November, 1991.

### **1992**

Pulmonary Division, New England Medical Center, Boston, MA. March, 1992.  
Department of Physiology, University of Texas Southwestern Medl Ctr, Dallas, TX. March, 1992.  
Department of Pathology, University of Rochester Medical School, Rochester, NY. April, 1992.  
Department of Biochemistry, University of CA at San Francisco, San Francisco, CA. June, 1992.  
Department of Ophthalmology, Bethesda Eye Institute, St. Louis, MO. October, 1992.  
Monsanto Company, St. Louis, MO. October, 1992.  
Department of Ophthalmology, Harvard Medical School, Boston, MA. December, 1992.

### **1993**

Departs of Ophthal and Biological Structure, University of Washington, Seattle, WA. April, 1993.  
Department of Pathology, University of Washington, Seattle, WA. April, 1993.  
Committee on Vascular Biology, The Scripps Research Institute, La Jolla, CA. April, 1993.  
Cleveland Clinic Research Foundation, Cleveland, OH. May, 1993.  
Distinguished Vision Scientist Series, New Eng. Eye Ctr, Tufts Med Sch, Boston, MA Sept, 1993.  
Department of Biology, Wesleyan University, Middletown, CT. September, 1993.  
"Cell-Cell Interactions in Vascular Growth and Pathology". Cardiovascular Research Seminar Series, Department of Medicine, St. Elizabeth's Hospital, Boston, MA. September, 1993.  
Hybridon, Inc., Worcester, MA. October, 1993.  
Department of Physiology, University of Vermont, Burlington, VT. October, 1993.  
OB-GYN Grand Rounds, University of Vermont, Burlington, VT. October, 1993.  
"Anesthesia Grand Rounds, Beth Israel Hospital, Boston, MA. December, 1993.

### **1994**

Prizm Pharmaceuticals, San Diego, CA, January, 1994  
Surgical Grand Rounds, New England Deaconess Hospital, Boston, MA. February, 1994.  
Pulmonary Division, New England Medical Center, Boston, MA March 1994  
American Cyanamid, Pearl River, NY. June, 1994.  
Department of Pathology, Beth Israel Hospital, Boston, MA July, 1994.

### **1995**

Research Seminars, Joslin Diabetes Center January, 1995.  
IXSYS, Inc., San Diego, CA January, 1995.  
Depts. of Anatomy and Cell Biology, Univ of TX Health Science Center, Ft. Worth, TX Jan, 1995  
Department of Immunology, Massachusetts Eye and Ear Infirmary, Boston, MA January, 1995  
Department of Surgery, Exeter Hospital, Exeter, NH. March, 1995  
Tufts Blood Vessel Club, Tufts Medical School, Boston, MA. April, 1995  
1995 Harvard/Radcliffe Science Alliance, Cambridge, MA. September, 1995

Seminar in Vascular Biology, Harvard Medical School, Boston, MA November, 1995  
Lung Biology Division, San Francisco General Hospital, San Francisco, CA November, 1995

### **1996**

Cardiovascular Diseases Research, Du Pont-Merck, Wilmington, DE. January, 1996  
Department of Biochemistry, Boston University School of Medicine, Boston, MA. January, 1996  
Department of Pathology, University of Oklahoma, Oklahoma City, OK. February, 1996  
Student Dinner Seminar Series, Program in Biological and Biomedical Science, HMS March, 1996  
Center for Vascular Biology, Medical College of Georgia, Augusta, GA, March, 1996  
Genzyme, Inc., Cambridge, MA. March, 1996  
Entremed, Inc., Bethesda, MD. May, 1996  
Department of Physiology, Tufts Medical School, Boston, MA. September, 1996  
New England College of Optometry, Boston, MA. December, 1996

### **1997**

Cardiovascular Seminar Series, St. Elizabeth's Hospital, Boston, MA. May, 1997  
Brain Tumor Conference, Division of Neurology, Brigham and Women's Hosp. May, 1997  
Schepens Eye Research Institute, Boston, MA August, 1997  
Harvard/Radcliffe Science Alliance, Cambridge, MA September 1997  
Department of Genetics, Harvard Medical School, December, 1997

### **1998**

Oncology Group, BASF Biomedical Corporation, Worcester, MA. March, 1998  
Ariad Pharmaceuticals, Cambridge, MA, September, 1998  
Creative Biomolecules, Hopkinton, MA, September, 1998  
Biogen Corp., Cambridge, MA, October, 1998

### **1999**

Vascular Research Division, Brigham & Women's Hospital, Boston, MA, February, 1999  
Cardiovascular Research Division, St. Elizabeth's Medical Center, Boston, MA, February, 1999  
Boston University, Boston, MA, March, 1999

### **2000**

Department of Pathology Seminar, Beth Israel Deaconess Medical Center, Boston, MA, May, 2000  
Biomolecular Seminar Series, Boston University, December 2000.  
Johns Hopkins University Center for Talented Youth, Invited Speaker.

### **2001**

Department of Surgery Seminar, Beth Israel Deaconess Medical Center, Boston, MA, April, 2001  
Oral Biology, The Forsyth Institute, Boston, MA, September, 2001.

### **2002**

Department of Radiation Oncology, Massachusetts General Hospital, Boston, MA, March, 2002.  
Program in Cell, Molecular and Developmental Biology Seminar Series, Tufts University School of Medicine, Boston, MA, September 2002.  
Gastrointestinal Unit Research Seminar Series, Massachusetts General Hospital, Boston, MA, September, 2002.

### **2003**

Cell and Molecular Regulation of Blood Vessel Growth and Stability, Genzyme Corp., Cambridge,

MA, June, 2003.  
Massachusetts Health Council, Invited Speaker, tribute to Drs. John Auerbach and Judah Folkman,  
Waltham, MA, October, 2003.

#### **2004**

Matrix Biology Seminar Series, Beth Israel Deaconess Medical Center, April, 2004.  
5<sup>th</sup> Annual Minority Undergraduate Recruitment Day, Invited Speaker, Harvard Medical School,  
November, 2004.  
A Century of Biology at Boston University, Invited Speaker, November, 2004.  
Wesleyan University, 2004.

#### **2005**

Biology Department Seminar Series, Invited Speaker, University of Massachusetts, January,  
2005.

#### Symposia, Courses and Named Lectures

#### **1984**

"Mechanisms Controlling Angiogenesis in the Eye". Federation of American Societies for  
Experimental Biology, St. Louis, MO. April, 1984.

International Course on Tissue Culture in the Study of the Cardiovascular System. University of  
Saskatchewan, Saskatoon, Canada. May, 1984.

"Growth Factors, Heparin and Growth Control". Third International Symposium on Biology of the  
Vascular Endothelial Cell, Boston, MA. June, 1984.

"Growth Control at the Microvascular Level". Third World Congress for Microcirculation, Oxford,  
England. September, 1984.

"Growth Factors and Matrix as Controls for Blood Vessel Growth in the Eye". Sixth International  
Congress of Eye Research, Alicante, Spain. October, 1984.

#### **1985**

The Microcirculatory Society, Organizer and Chairperson of Endothelium Session, Tucson, AZ.  
April, 1985.

Roundtable discussion on the "Problems and Practicality of Seeding Vascular Prosthetic  
Devices", Gore Associates, Inc., Flagstaff, AZ. August, 1985.

"Growth Factors, Angiogenesis and Metastasis". Upjohn symposium on Cancer Metastasis:  
Experimental and Clinical Strategies, Kalamazoo, MI. September, 1985.

#### **1986**

"The Role of Heparin-Like Molecules in the Control of Angiogenesis". American Thoracic Society  
Annual Meeting, Kansas City, MO. April, 1986.

"Cell Biology and Biochemistry of Collateralization". National Heart, Lung and Blood Institute  
Workshop on Research in Vascular Disease, Bethesda, MD. August, 1986.

#### **1987**

"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, 1987.

"A Role for Pericytes in Angiogenesis". National Heart, Lung and Blood Institute Workshop on Research in Vascular Disease, Bethesda, MD. June, 1987.

"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. November, 1987. Speaker and Session Chairperson.

"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, 1987.

### **1988**

"Growth Factors and Pericytes in Microangiopathy". Vascular Disease and Diabetes Mellitus: A New Approach, Montreux, Switzerland. February, 1988.

"In Vitro Methods in the Study of Retinal Vascular Growth Control". Second Western Eye Research Conference, Lake Arrowhead, CA. February, 1988.

"Growth Modulators and Cell-Cell Interaction in the Control of Angiogenesis". Bristol-Myers Symposium on "Growth Factors". Wallingford, CT. June, 1988.

"Growth Factors and Cell Communication in the Control of Angiogenesis". Tissue Culture Association Meetings, Symposium on "Angiogenesis", Las Vegas, NV. June, 1988.

"Angiogenesis as a Response to Injury". Vth International Symposium on the Biology of the Vascular Endothelial Cell, Toronto, Ontario, Canada. July, 1988. Speaker and Session Chairperson.

"Growth Factors and Cell Interactions in the Regulation of Angiogenesis". Gordon Research Conference on Vascular Biology, Kimball Union, NH. August, 1988.

### **1989**

"Angiogenesis". Visions in Wound Healing, Tarpon Springs, FL. March, 1989.

"Overview of the Pericyte". Blood Vessel Club Invited Presentation, FASEB, New Orleans, LA. March, 1989.

Regulation of Vascular Endothelial Cell Growth". FASEB, New Orleans, LA. March, 1989. Speaker and Session Chairperson.

"Use of Cultured Endothelium in Vascular Prostheses". Tissue Culture Association, Orlando, FL. June, 1989. Formal Symposium Participant.

"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, 1989.

"Pericyte Inhibition of Endothelial Cell Growth". Second International Symposium on Ocular Circulation and Neovascularization. Baltimore, MD. September, 1989.

"Growth Factors in the Control of Angiogenesis". NIH Workshop on the Biology of the Renal Microvasculature, Bethesda, MD. October, 1989.

"Regulation of Endothelial Cell Behavior by Pericytes". NIH Meeting on Endothelial Cells in Development and Disease, Crystal City, VA. November, 1989.

"Role of Growth Factors in Vascular Growth Control". American Zoological Society Symposium on "Frontiers in Hormone Research". Boston, MA. December, 1989.

## **1990**

"Heparin-Endothelial Cell Interactions". Clinica Medica, University of Florence, Heparin in the 90's: Present and Future. Florence, Italy. March, 1990.

"Pericyte-Endothelial Interactions Regulate Vascular Growth: Role of TGF- $\beta$ ". American Thoracic Society, World Conference on Lung Health. Boston, MA. May, 1990.

"Mural Cells in Vascular Control". American Zoological Society Symposium on "Frontiers in Hormone Research". Boston, MA. December, 1989.

"Heparin-Endothelial Cell Interactions". Clinica Medica, University of Florence, Heparin in the 90's: Present and Future. Florence, Italy. March, 1990.

"Pericyte-Endothelial Cell Interactions Regulate Vascular Growth: Role of TGF- $\beta$ ". American Thoracic Society, World Conference on Lung Health. Boston, MA. May, 1990.

"Mural Cells in Vascular Growth Control". Gordon Research Conference on Vascular Biology, Kimball Union, NH. August, 1990.

"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, 1990.

"Developmental Aspects of Vascular Disease". The 101st Ross Conference on Pediatric Research. Developmental Mechanisms of Disease in the Newborn, Tempe, AZ. November, 1990.

"Fibroblast Growth Factors and Their Receptors in Growth and Pathology". American Society for Cell Biology, San Diego, CA. December, 1990. Minisymposium Organizer and Chairperson.

## **1991**

"Endothelial Cell-Mural Cell Interactions in Vascular Growth Control". Keystone Symposia, FGF, Endothelial Cell Growth Factors and Angiogenesis. Keystone, CO. April, 1991.

"Endothelial-Pericyte Interactions in Vascular Growth Control". Symposium on "Vasculogenesis and Angiogenesis". FASEB. Atlanta, GA. April, 1991. Speaker and Session Chairperson.

"Growth Factors and Intercellular Communication in Diabetic Atherosclerosis". Current Approaches to Treating Dyslipidemia in the Diabetic Patient: From Theory to Practice. Washington, DC. June, 1991.

"Heparin and Angiogenesis". Symposium on Heparin and its Derivatives - Present and Future Developments. Amsterdam, The Netherlands. July, 1991.

"The Role of Pericytes in Angiogenesis". Symposium on Angiogenesis and Tumors. 5th World Congress for Microcirculation. Louisville, KY. September, 1991.

"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, 1991.

### **1992**

"Endothelial Cell-Mural Cell Interactions". Keystone Symposium on Inflammation, Growth Regulatory Molecules and Atherosclerosis. Keystone, CO. January, 1992.

"Molecules that Mediate Endothelial Cell-Pericyte Interactions". American Physiological Society on Pericyte and Mesangial Mechanisms and Microvascular Function. FASEB Meetings, Anaheim, CA. April, 1992.

"Endothelial Cell-Mural Cell Communication in the Vasculature". VIIth International Symposium on the Biology of Vascular Cells. San Diego, CA. November, 1992.

### **1993**

Symposium on "Angiogenesis and Wound Healing". American Association of Pathology, FASEB, New Orleans, LA. March, 1993. Organizer and Chairperson.

"bFGF in Injury and Pathology". Experimental Biology '93 (FASEB), New Orleans, LA. March, 1993.

Cogan Award Lecture. Assn. for Research in Vision and Ophthal, Sarasota, FL. May, 1993.

Symposium on Role of Growth Factors in Development and Pathology. Association for Research in Vision and Ophthalmology, Sarasota, FL. May, 1993. Organizer and Chairperson.

"Hypoxia, Vascular Endothelial Growth Factor and Ocular Neovascularization". Symposium on Vascular Complications of Diabetes Mellitus. Joslin Diabetes Center. Boston, MA. October, 1993.

"Mechanism of Ocular Neovascularization". Cold Spring Harbor Meeting on Mechanisms of Developmental and Tumor Angiogenesis. Cold Spring Harbor, NY. November, 1993.

"Cell-Cell Interactions in Microvascular Growth Control". Broadhurst Foundation Visiting Lecture Series. Schepens Eye Research Institute, Boston, MA. December, 1993.

"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, 1993.

### **1994**

"Growth Factors and Ocular Neovascularization". Basic Course in Ophthalmology. Columbia Presbyterian Medical School, New York, NY. January, 1994.

"Cell-Cell Interactions in Vascular Growth Control". Fourth Annual Meeting of The Wound Healing Society. San Francisco, CA. May, 1994.

"Hypoxic Regulation of VEGF and its Role in Proliferative Neovascularization". VIIIth International Symposium on the Biology of Vascular Cells. Heidelberg, Germany. August, 1994.

### **1995**

"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. May, 1995, organizer and speaker.

"Pericytes and Growth Factors in the Control of Angiogenesis". Gordon Research Conference on "Angiogenesis and Microcirculation", Newport, RI, August, 1995.

"Angiogenesis and Neoplasia". Review and Update in Neurobiology for Neurosurgeons, Marine Biological Laboratories, Woods Hole, MA, November, 1995.

### **1996**

"Cellular and Molecular Regulators of Angiogenesis", International Business Communications meeting on Angiogenesis Inhibitors, Boston, MA, February, 1996.

"Things They Don't Teach You in Graduate School", Keynote Address at the 1996 Boston Area Graduate Student Symposium, Boston, MA. March, 1996.

"Angiogenesis and hypoxic regulation of VEGF", Symposium on Molecular Targets of Vascular Disease, American Physiological Society, Experimental Biology '96, Washington, DC. April, 1996.

"Role and regulation of VEGF in normal and pathologic neovascularization", Gordon Research Conference on Peptide Growth Factors, Kimball Union Academy, Meriden, NH. August, 1996.

"Neovascularization", Fundamental Issues in Vision Research 1996: Molecular and Cell Biological Approaches, Marine Biological Laboratories, Woods Hole, MA. August, 1996.

"Angiogenesis and Neoplasia". Review and Update in Neurobiology for Neurosurgeons, Marine Biological Laboratories, Woods Hole, MA. November, 1996.

### **1997**

"In Vitro Models of Blood Vessel Assembly", Research Initiatives in Vascular Disease Conference on How to Build a Blood Vessel, Bethesda, MD. March, 1997.

"Cell-cell Interactions in Blood Vessel Assembly", Symposium on Angiogenesis, North American Vascular Biology Organization, New Orleans, LA. March, 1997.  
Co-chair and speaker

"Angiogenesis and Neoplasia". Review and Update in Neurobiology for Neurosurgeons, Marine Biological Laboratories, Woods Hole, MA. November, 1997.

"Cell-cell Interactions and Growth Factors in Vascular Growth Control", Symposium of the International Schepens Society, Boston, MA. May, 1997.

### **1998**

"Cell-cell Interactions in Vessel Formation", Am Assn for Cancer Research Special Conference on Angiogenesis and Cancer, Orlando, FL. January, 1998.

"Angiogenesis and Neoplasia", Runn Course, Review and Update in Neurobiology for Neurosurgeons, Woods Hole, MA. October, 1998.

Fundamental Issues in Vision Research: Molecular and Cellular Approaches, Marine Biology Laboratory, Woods Hole, MA, August, 1998.

"Biology of Smooth Muscle and Endothelial Interactions", American Society of Nephrology, 31<sup>st</sup> Annual Meeting & Scientific Exposition, Philadelphia, PA, October 1998.

### **1999**

"Growth Factors in Vascular Angiogenesis," Hematology/Oncology Teaching & Research Seminar, New York University, New York, NY, January 1999.

"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 1999.

"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 1999.

"Angiogenesis: Cellular and Molecular Regulation," American Society of Hypertension, New York, NY, May 1999.

"Angiogenesis", 21<sup>st</sup> Biennial Cornea Research Conference, Schepens Eye Research Institute, Boston, MA, September, 1999.

### **2000**

"Growth Factors and Cell-Cell Interactions in the Control of Vascular Development and Growth." Hospital Sainte-Justine, Montreal, Canada, May, 2000.

International Union Against Cancer Study Group Meeting on Basic and Clinical Cancer Research, Woods Hole, MA, June, 2000.

"Angiogenesis." Mars Nutrition Research Council meeting, New York, NY, September, 2000.

"Paracrine Regulation of Endothelial Growth," Boston Angiogenesis Meeting, Boston, MA, November, 2000.

"Paracrine Regulation of Vascular Development & Remodeling," Genzyme Corporation, Framingham, MA, December, 2000.

### **2001**

"Cellular Interactions During Vascular Development," Pediatric Academic Societies' Meeting 2001 Annual Meeting, Baltimore, MD, April, 2001.

"Angiogenesis and Neoplasia", RUNN 2001 Course, Marine Biology Laboratory, Woods Hole, MA, October 2001.

"Paracrine Regulation of Vessel Formation and Stability," Boston Angiogenesis Meeting, Boston, MA, November, 2001.

### **2002**

"Angiogenesis and Neoplasia," RUNN 2002 Course, Marine Biology Laboratory, Woods Hole, MA, October/November 2002.

**2003**

"Frontiers in Cancer Invasion and Metastasis," Dana Farber/Harvard Cancer Center Program in Development on Angiogenesis, Invasion and Metastasis, Boston, MA, March, 2003.

"Neovascularization in the Eye," Massachusetts Institute of Technology/Massachusetts General Hospital joint workshop, Boston, MA, May, 2003.

"Cell Death in the Vasculature," Massachusetts Eye & Ear Infirmary, Boston, MA, June 2003.

"Angiogenesis and Neoplasia", RUNN 2003 Course, Marine Biological Laboratory, Woods Hole, MA, November 2003.

**2004**

"Angiogenesis and Neoplasia," RUNN 2004 Course, Marine Biological Laboratory, Woods Hole, MA, November 2004.

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3. Ebbe SE, Phalen E, D'Amore PA, Howard D. Megakaryocytic responses to thrombocytopenia and thrombocytosis in S1/S1 mice. *Exp Hematol*, 1978; 6:201-212.
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10. Glaser BM, D'Amore PA, Michels RG. The effect of human intraocular fluid on vascular endothelial cell migration. *Ophthalmol*, 1981; 88:986-991.
11. Sharefkin JB, Latker CM, D'Amore PA, Trinidad-Vasquez M, Rich NM. Seeding of dacron vascular prostheses with aortic origin. *J Surg Res*, 1983; 34:33-43.
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14. Galloway AC, Pelletier R, D'Amore PA. Do ischemic hearts stimulate endothelial cell growth? *Surgery*, 1984; 96:435-438.
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; 36:588-596.
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20. Leong KW, D'Amore PA, Marletta M, Langer R. Bioerodible polyanhydrides as drug-carrier matrices. II: Biocompatibility and chemical reactivity. *J Biomed Mat Res*, 1986; 20:51-64.
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