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**Ophthalmic Consultants of Boston, Inc.**

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**Education:**

1980 BA, University of Michigan, Ann Arbor  
1982 MD, University of Michigan Medical School, Ann Arbor

**Postdoctoral Training:**

*Internship and Residencies:*

1982 Clerkship in Neurology, National Hospital for Nervous Diseases, Queen Square, London, England  
1982-1983 Intern, Tucson Hospitals Medical Education Program, Tucson, Arizona  
1983-1985 Resident, Ophthalmology, Kellogg Eye Center, Department of Ophthalmology, University of Michigan Medical Center, Ann Arbor  
1985-1986 Chief Resident, Ophthalmology, Kellogg Eye Center, Department of Ophthalmology, University of Michigan Medical Center, Ann Arbor

*Research Fellowship:*

1986-1988 Research Fellow (Immunology), Hilles Immunology Laboratory, Massachusetts Eye and Ear Infirmary, Boston

*Clinical Fellowships:*

1986-1987 Clinical Fellow, Immunology and Uveitis Service, Massachusetts Eye and Ear Infirmary, Boston  
1987-1988 Clinical Fellow, Cornea Service, Massachusetts Eye and Ear Infirmary, Boston

**Licensure and Certification:**

1982 State of Michigan Medical Licensure, #4301046855  
1986 Commonwealth of Massachusetts Medical Licensure, #55622  
1987 American Board of Ophthalmology, Diplomate

**Academic Appointments:**

1986-1988 Clinical Fellow in Ophthalmology, Harvard Medical School, Boston  
1988-1991 Instructor in Ophthalmology, Harvard Medical School, Boston  
1991 Assistant Professor of Ophthalmology, Harvard Medical School, Boston  
1991-1997 Assistant Professor of Ophthalmology, Tufts University School of Medicine, Boston  
1997- Associate Professor of Ophthalmology, Tufts University School of Medicine, Boston

**Hospital Appointments:**

1987- Assistant in Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston  
1988-1991 Research Fellow, Department of Rheumatology and Immunology, Brigham and Women's Hospital, Boston  
1991- Ophthalmologist, New England Medical Center, Boston  
1991- Staff Physician, Veterans Administration Medical Center, Boston  
1992- Staff Physician, Newton-Wellesley Hospital, Newton  
1994-1998 Staff Physician, Emerson Hospital, Concord  
1994-1998 Staff Physician, Leominster Hospital, Leominster  
1996-1998 Staff Physician, Noble Hospital, Westfield  
1996-1998 Staff Physician, St. Vincent Hospital, Worcester  
1996-1998 Staff Physician, Lawrence Memorial Hospital, Medford  
2003-4 Clinical Associate, Surgery Service, Massachusetts General Hospital, Boston, MA

**Awards and Honors:**

1976 University of Michigan Regents Scholar  
1979 Phi Beta Kappa  
1986-1987 Heed Foundation Fellow  
1987-1988 Heed Foundation/Knapp Fellow  
1994 Honor Award, American Academy of Ophthalmology  
2007 Senior Achievement Award, American Academy of Ophthalmology  
2008- Qualified and Listed at [Trusted LASIK Surgeons](#), a LASIK surgeon directory service that screens LASIK surgeons based on research, experience, and premier patient care

**Committee Assignments:**

- 1980-1986 University of Michigan Medical School Admissions Committee
- 1989-1991 Residency Steering Committee, Massachusetts Eye and Ear Infirmary
- 1989-1991 Immunology Journal Club, Massachusetts Eye and Ear Infirmary
- 1989-1991 Medical Records Committee, Massachusetts Eye and Ear Infirmary
- 1990-1991 Senior Fellow, Oliver Wendell Holmes Society, Harvard Medical School
- 1990- Ad Hoc Reviewer for:
  - New England Journal of Medicine
  - American Journal of Ophthalmology
  - Investigative Ophthalmology and Visual Science
  - Cornea
  - Ophthalmology
  - Lasers in Surgery and Medicine
  - Journal of Allergy and Clinical Immunology
  - Journal of Refractive Surgery
  - Ophthalmic Surgery and Lasers
- 1991-1998 Director of Research, Department of Ophthalmology, Tufts University School of Medicine
- 1991- Director, Cornea and Anterior Segment Service, Department of Ophthalmology, Tufts University School of Medicine.
- 1993- Associate Examiner, American Board of Ophthalmology
- 1994- Editorial Board, Archives of Ophthalmology

**Professional Societies:**

- 1984- American Academy of Ophthalmology (Fellow, 1988)
- 1986- Association for Research in Vision and Ophthalmology
- 1988- Massachusetts Medical Society
- 1988- Massachusetts Society of Eye Physicians and Surgeons
- 1988- Ocular Microbiology and Immunology Group
- 1988- Society of Heed Fellows
- 1991- New England Ophthalmological Society
- 1992- American Society of Cataract and Refractive Surgery
- 1993- American Uveitis Society
- 1993- Pan American Association of Ophthalmology

**Research Support:**

- 1986-1988 National Research Service Award, National Eye Institute, National Institutes of Health, "Immunology and Genetics of Herpes Simplex Keratitis," \$40,000, principal investigator
- 1987-1988 National Society to Prevent Blindness Grant, "The Cellular Basis of the Immune Response to Herpes Simplex Virus Keratitis," \$10,000, principal investigator
- 1988-1993 Physician Scientist Award, National Eye Institute, National Institutes of Health, "Mast Cell Membrane Glycolipid Expression and Function," \$332,000, principal investigator
- 1989-1991 Institutional Training Grant, Massachusetts Eye and Ear Infirmary, National Eye Institute, National Institutes of Health, Associate Director
- 1992-1994 Small Business Innovation Research Program, Public Health Service, "Solid State Laser Source for Corneal Ablation, Co-Investigator

*(Continued on next page)*

## Bibliography

### *Original Reports:*

1. Raizman MB, Beck RW. Iris ischemia following surgery on two rectus muscles. *Arch Ophthalmol.* 1985; 103:1783-1787.
2. Raizman MB, Beck RW. Sustained increases in intraocular pressure during strabismus surgery. *Am J Ophthalmol.* 1986; 101:308-309.
3. Soong HK, Raizman MB. Corneal changes in familial iris coloboma. *Ophthalmology.* 1986; 93:335-339.
4. Raizman MB. Ocular abnormalities accompanying chromosome 13 defects. *Arch Ophthalmol.* 1987; 105:744.
5. Foster CS, Opremac EM, Rice B, Wells P, Thompson P, Fong LP, Raizman MB. Clinical, pathologic, and immunopathologic characteristics of experimental murine herpes simplex keratitis and uveitis are controlled by gene products from the Igh-1 locus on chromosome 12. *Trans Am Ophthalmol Soc.* 1987; 85:293-311.
6. Raizman MB, Foster CS. Passive transfer of anti-HSV-1 IgG protects against stromal keratitis in mice. *Curr Eye Res.* 1988; 7:823-829.
7. Raizman MB, Baum J. Discoid lupus keratitis. *Arch Ophthalmol.* 1989; 107:545-547.
8. Liu EY, Raizman MB, Rosner B, Ihley TM, Foster CS. Effects of blood transfusion and cyclosporin on rabbit corneal graft survival. *Curr Eye Res.* 1989; 8:523-531.
9. Raizman MB, Foster CS. Plasma exchange in the therapy of Behcet's disease. *Graefes Arch Clin Exp Ophthalmol.* 1989; 227:360-363.
10. Hoang-Xuan T, Foster CS, Raizman MB, Greenwood B. Mast cells in conjunctiva affected by cicatricial pemphigoid. *Ophthalmology.* 1989; 96:1110-1114.
11. Opremac EM, Foster CS, Hemady R, Rice BA, Daigle JA, Raizman MB, Chung H, Zaltas M. Chorioretinal disease patterns in congenic mice following intraocular inoculation with HSV-1. *Invest Ophthalmol Vis Sci.* 1989; 30:1041-1046.
12. Raizman MB, Austen KF, Katz HR. Mast cell heterogeneity: Differential synthesis and expression of glycosphingolipids by mouse serosal mast cells as compared to IL-3-dependent bone marrow culture-derived mast cells before or after coculture with 3T3 fibroblasts. *J Immunol.* 1990; 145:1463-1468.
13. Raizman MB, Sainz de la Maza M, Foster CS. Tectonic keratoplasty for peripheral ulcerative keratitis. *Cornea.* 1991; 10:312-316.
14. Soukiasian SH, Foster CS, Niles JL, Raizman MB. Diagnostic value of anti-neutrophil cytoplasmic antibodies (ANCA) in scleritis associated with Wegener's granulomatosis. *Ophthalmology.* 1992; 99:125-132.

15. Katz HR, Raizman MB, Gartner CS, Scott HC, Benson AC, Austen KF. Secretory granule mediator release and generation of oxidative metabolites of arachidonic acid via Fc-IgG receptor bridging in mouse mast cells. *J Immunol.* 1992; 148:868-871.
16. Lamkin JC, Raizman MB. Update on laboratory tests for diagnosis of orbital disease. *Int Ophthalmol Clin.* 1992; 32:27-44.
17. Karbassi M, Raizman MB, Schuman JS. Herpes zoster ophthalmicus. *Surv Ophthalmol.* 1992; 36:395-410.
18. Trocme SD, Bartley GB, Raizman MB. Medical therapy of ocular allergy. *Mayo Clin Proceed.* 1992; 67:557-565.
19. Hemady R, Sainz de la Maza M, Raizman MB, Foster CS. Six cases of scleritis associated with systemic infection. *Am J Ophthalmol.* 1992; 114:55-62.
20. Lobell RB, Arm JP, Raizman MB, Austen KF, Katz HR. Intracellular degradation of FcγRIII in mouse bone marrow culture-derived progenitor mast cells prevents its surface expression and associated function. *J Biol Chem.* 1993; 268:1207-1212.
21. Netland PA, Zierhut M, Raizman MB. Post-traumatic herpes zoster ophthalmicus as a presenting sign of human immunodeficiency virus infection. *Ann Ophthalmol.* 1993; 25:14-15.
22. Fong DS, Raizman MB. Spontaneous hyphema associated with anterior uveitis. *Br J Ophthalmol.* 1993; 68:635-638.
23. Spector SL, Raizman MB. Conjunctivitis medicamentosa. *J Allergy Clin Immunol.* 1994; 94:134-6.
24. Raizman MB. Case Records of the Massachusetts General Hospital (Wegener's granulomatosis involving the right orbital soft tissue and breast). *N Engl J Med.* 1994; 17:1143-1149.
25. Soukiasian SH, Foster CS, Raizman MB. Treatment strategies for scleritis and uveitis associated with inflammatory bowel disease. *Am J Ophthalmol.* 1994; 118:601-611.
26. Raizman MB, Fay AM, Weiss JS. Dapsone-induced neutropenia in patients treated for ocular cicatricial pemphigoid. *Ophthalmology.* 1994; 101:1805-1807.
27. Dutt S, Steinert RF, Raizman MB, Puliafito CA. One year results of excimer laser photorefractive keratectomy for low to moderate myopia. *Arch Ophthalmol.* 1994; 112:1427-1436.
28. Panjwani N, Ahmad S, Raizman MB. Cell surface glycoproteins of corneal epithelium. *Invest Ophthalmol Vis Sci.* 1995; 36:355-363.
29. Marcus DM, Frederick AR, Raizman MB, Shore JW. Choroidal and retinal detachment in antineutrophil cytoplasmic antibody-positive scleritis. *Am J Ophthalmol.* 1995; 119:517-519.

30. Callina C, Raizman MB. Immunologic disorders of the scleral and conjunctiva. *J Ophthalm Nurs & Tech.* 1995; 14:267-273.
31. Greenfield DS, Jivanjee SQ, Raizman MB. The effect of trephination on corneal topography. *Ophthalmic Surg & Lasers.* 1995; 26:560-567.
32. Kornmehl EW, Bredvic BK, Kelman CD, Raizman MB, DeVore DP. In vivo evaluation of a collagen corneal allograft derived from rabbit dermis. *J Refractive Surg.* 1995; 11:502-506.
33. Carus NA, Raizman MB, Williams DL, Baker A. Relapse of *Mycobacterium leprae* infection with ocular manifestation. *Clin Infectious Dis.* 1995; 20:776-780.
34. Raizman MB. Results of survey of patients with ocular allergy treated with topical ketorolac tromethamine. *Clin Therapeutics.* 1995; 17:882-890.
35. Ahmad SI, Zhao Z, Raizman MB, Panjwani N. Plasma membrane sialoglycoproteins of human corneal epithelium in culture. *Cornea.* 1995; 14:497-501.
36. Foster CS, Alter G, DeBarge LR, Raizman MB, Crabb JL, Santos CI, Feiler LS, Friedlaender MH. Efficacy and safety of rimexolone 1% ophthalmic suspension vs 1% prednisolone acetate in the treatment of uveitis. *Am J Ophthalmol.* 1996; 122:171-182.
37. Raizman, MB. Corticosteroid therapy of eye disease: Fifty years later. (Editorial) *Arch Ophthalmol.* 1996; 114:1000-1001.
38. Fini ME, Parks W, Rinehart WB, Matsubara M, Girard MT, Cook JR, Jeffrey JJ, Burgeson RE, Raizman MB, Kreuger R, Zieske J. Role of matrix metalloproteinases in failure to re-epithelialize following corneal injury. *Am J Pathol.* 1996; 149:1287-1302.
39. Panjwani N, Zhao Z, Raizman MB, Jungalwala F. Pathogenesis of corneal infection: Binding of *Pseudomonas aeruginosa* to specific phospholipids. *Infect Immun.* 1996; 64:1819-25.
40. Cohen RG, Raizman MB, Callina C, Lahav M. Retinal safety of oral and topical ofloxacin in rabbits. *J Ocul Pharmacol Ther.* 1997; 13: 369-379.
41. Raizman MB, Haas JJ. A 32-year-old man with vitreous hemorrhage and mediastinal lymphadenopathy. *N Engl J Med.* 1998; 338:313-319.
42. Tauber J, Raizman MB, Ostrov CS, Laibovitz RA, Abelson MB, Betts JG, Koester JM, Gill D, Schaich L. A multicenter comparison of the ocular efficacy and safety of diclofenac 0.1% solution with that of ketorolac 0.5% solution in patients with acute seasonal allergic conjunctivitis. *J Ocul Pharmacol Ther.* 1998; 14:137-45.
43. Messmer EM, Raizman MB, Foster CS. Lepromatous uveitis diagnosed by iris biopsy. *Graefes Arch Clin Exp Ophthalmol.* 1998; 236:717-9.
44. Mohan R, Sivak J, Ashton P, Russo LA, Pham BT, Raizman MB, Fini ME. Curcuminoids inhibit the angiogenic response stimulated by FGF-2, including expression of matrix metalloproteinase gelatinase B. *J Biol Chem.* 2000; 275:10405-12.

45. Raizman, MB, What Triggers Recurrences of Herpes Simplex Keratitis (editorial). Arch Ophthalmology. 2000; 118:1682.
46. Raizman MB, Rothman JS, Maroun F, Rand WM. Effect of eye rubbing on signs and symptoms of allergic conjunctivitis in cat-sensitive individuals (editorial). Ophthalmol. 2000 107: 2158-61. Summary for patients in: Curr Allergy Asthma Rep. 2002 Jul;2(4):319-20.
47. Donshik PC, Pearlman D, Pinnas J, Raizman MB, Tauber J, Tinkelman, D. Walters TR. Efficacy and safety of ketorolac tromethamine 0.5% and levocabastine 0.05%: a multicenter comparison in patients with seasonal allergic conjunctivitis. Adv Ther 2000; 7 (2):94-102.
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50. Raizman MB, Rubin JM, Graves AL, Rinehart M. Tear concentrations of levofloxacin following topical administration of a single dose of 0.5% levofloxacin ophthalmic solution in healthy volunteers. Clin Ther 2002; 24 (9):1439-50. Erratum in: Clin Ther. 2004: Oct; 26(10):1700. dosage error in text.
51. Hwang DG, Schanzlin DJ, Rotberg MH, Foulks G, Raizman MB; Levofloxacin Bacterial Conjunctivitis Place-controlled Study Group. A phase III, placebo controlled clinical trial of 0.5% levofloxacin ophthalmic solution for the treatment of bacterial conjunctivitis. Br J Ophthalmol. 2003 Aug;87(8):1004-9.
52. Ashrafzadeh A, Raizman MB. New modalities in the treatment of ocular allergy. Int Ophthalmol Clin 2003 Winter; 43(1): 105-10.
53. Chun, DW, Heier JS, Raizman MB. Visual prosthetic device for bilateral end-stage macular degeneration. Expert Rev Med Devices 2005 Nov : 2(6): 657-65.
54. Cornea Donor Study Group. An Evaluation of Image Quality and Accuracy of Eye Bank Measurement of Donor Cornea Endothelial Cell Density in the Specular Microscopy Ancillary Study. Ophthalmology 2005; 112:431-440.
55. Cornea Donor Study Group. Clinical Profile and Early Surgical Complications in the Cornea Donor Study (CDS). Cornea 2006; 25(2):164-170.
56. Benetz, BA, Gal, RL, Ruedy KJ, Rice C, Beck RW, Lass, JL for the Cornea Donor Study Group. Specular Microscopy Reading Center Methods in the Specular Microscopy Ancillary Study (SMAS). Current Eye Research 2006; 31:319-327.
57. Ahmad M, Niffenegger JH, Jakobiec, FA, Ben-Arie-Weintrob Y, Gion N, Androudi S, Folberg R, Raizman MB, Margo CE, Smith ME, McLean IW, Caya JG, Foster CS. Diagnosis of limited ophthalmic Wegener granulomatosis: distinctive pathologic features with Anca test confirmation. International Ophthalmology 2007 Jun (in press).

58. Walters T, Raizman M, Ernest P, Gayton J, Lehmann, R. In Vivo Pharmacokinetics and In Vitro Pharmacodynamics of Nepafenac, Amfenac, Ketorolac, and Bromfenac. 2007 (in press).
59. Raizman MB, Donnenfeld ED, Weinstein AJ. Clinical comparison of two topical prednisolone acetate 1% formulations in reducing inflammation after cataract surgery. *Cur Med Res Opin* 2007; 23: 2325-31.
60. Holland EJ, Lane SS, Kim T, Raizman M, Dunn S. Ocular penetration and pharmacokinetics of topical gatifloxacin 0.3% and moxifloxacin 0.5% ophthalmic solutions after keratoplasty. *Cornea* 2008; 27 (3):314-319.

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**Chapters:**

1. Raizman MB. Conjunctival challenge. In: Spector SL, ed., *Provocative Challenge Procedures: Background and Methodology*, Future Publishing Co., Inc., Mt. Kisco, NY. 1989; pp. 627-637.
2. Foster CS, Baer JC, Raizman MB. Therapeutic responses to systemic immunosuppressive chemotherapy agents in patients with Behcet's syndrome affecting the eyes. *Proceedings of the Fifth International Congress on Behcet's Disease*. Rochester, MN, 1989. In O'Duffy JD, Kokman E, eds, *Behcet's Disease: Basic and Clinical Aspects*. M Dekker, New York, NY. 1991; pp. 581-588.
3. Raizman MB. Cellular products. In: Albert DM, Jakobiec FA, eds. *Principles and Practice of Ophthalmology, Basic Sciences*. WB Saunders Co, Philadelphia, PA. 1994; pp. 763-769.
4. Soukiasian SH, Raizman MB. Ocular toxicity of systemic medications. In: Albert DM, Jakobiec FA, eds. *Principles and Practice of Ophthalmology, Basic Sciences*. WB Saunders Co, Philadelphia, PA. 1994; pp. 1173-1185.
5. Abelson MB, Udell IJ, Alansmith MR, Raizman MB. Allergic and toxic reactions. In: Albert DM, Jakobiec FA, eds. *Principles and Practice of Ophthalmology, Clinical Practice*. WB Saunders Co, Philadelphia, PA. 1994; pp. 77-100.
6. Rutzen AR, Raizman MB. Fuchs' heterochromic iridocyclitis. In: Albert DM, Jakobiec FA, eds. *Principles and Practice of Ophthalmology, Clinical Practice*. WB Saunders Co, Philadelphia, PA. 1994; pp. 503-516.
7. Whitcup SM, Raizman MB. Spirochetal infections and the eye. In: Albert DM, Jakobiec FA, eds. *Principles and Practice of Ophthalmology, Clinical Practice*. WB Saunders Co, Philadelphia, PA. 1994; pp. 3078-3092.
8. Raizman MB. Update on ocular allergy. *Focal Points Clinical Modules for Ophthalmologists*, American Academy of Ophthalmology, San Francisco, CA. 1994; Vol. XII, No. 5, Section 2.
9. Raizman MB, Whitcup SM. Syphilitic keratitis. In Wilhelmus KR, Liesegang TJ, eds, *Interstitial Keratitis, Ophthalmology Clinics of North America*, WB Saunders Co, Philadelphia, PA. 1994; pp. 591-595.
10. Raizman MB. Conjunctival challenge. In Spector SL, ed, *Provocation Testing in Clinical Practice*, Marcel Dekker, Inc., New York, NY. 1995; pp. 693-701.
11. Raizman MB. Special techniques for cataract extraction: cataract surgery in uveitis patients. In Steinert RF, ed. *Cataract Surgery: Technique, Complications & Management*, WB Saunders Co, Philadelphia, PA. 1995; pp. 243-246.
12. Raizman MB. Management of post-operative complications: prolonged intraocular inflammation. In Steinert RF, ed. *Cataract Surgery: Technique, Complications & Management*, WB Saunders Co, Philadelphia, PA. 1995; pp. 439-442.

13. Raizman MB. Microbial scleritis. In Pepose JS, Holland GN, Wilhelmus KR, eds. Ocular Infection and Immunity, Mosby Year Book, St. Louis, MO. 1995; pp. 1081-1087.
14. Raizman MB. Rheumatoid scleritis and keratitis. In Zierhut M, Thiel HJ, eds. Immunology of the Joint and Eye, Aeolus Press, Buren, The Netherlands. 1996; pp. 237-244.
15. Schwam B, Raizman MB. Scleritis. In Krachmer J, Holland E, Mannis M, eds. Cornea, Mosby Year Book, St. Louis, MO. 1997; pp. 1479-1491.
16. Lee Y, Raizman MB. Vernal conjunctivitis. In Beilory L, ed. Ocular Allergy, Immunology and Allergy Clinics of North America, WB Saunders Co, Philadelphia, PA. 1997; pp. 43-51.
17. Gallo J, Raizman MB. Phototherapeutic keratectomy for superficial corneal disorders. In Friedlaender MH, ed. Current Concepts in Refractive Surgery, International Ophthalmology Clinics, Little, Brown and Co., Boston, MA. 1997; pp. 155-170.
18. Zierhut M, Raizman M, Thiel HJ, eds. Autoimmunity and the Eye, Aeolus Press, Buren, The Netherlands. 1997.
19. Raizman MB. Immunopathology of ocular cicatricial pemphigoid. In Zierhut M, Raizman M, Thiel HJ, eds. Autoimmunity and the Eye, Aeolus Press, Buren, The Netherlands. 1997; pp. 187-193.
20. Soukiasian SH, Raizman MB. Ocular toxicity of systemic medications. In: Albert DM, Jakobiec FA, eds. Principles and Practice of Ophthalmology, 2<sup>nd</sup> ed. WB Saunders Co, Philadelphia, PA. 2000; pp. 455-468.
21. Rutzen AR, Raizman MB. Fuchs' heterochromic iridocyclitis. In: Albert DM, Jakobiec FA, eds. Principles and Practice of Ophthalmology, 2<sup>nd</sup> ed. WB Saunders Co, Philadelphia, PA. 2000; pp. 1294-1306.
22. Whitcup SM, Raizman MB. Spirochetal infections and the eye. In: Albert DM, Jakobiec FA, eds. Principles and Practice of Ophthalmology, 2<sup>nd</sup> ed. WB Saunders Co, Philadelphia, PA. 2000; pp. 4940-4955.

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***Invited Lectures:***

1. Therapeutic alternatives to corticosteroids for ocular inflammatory disease, New England Ophthalmological Society Meeting, Boston, MA, 9-87
2. Major Histocompatibility complex, Massachusetts Eye and Ear Infirmary Lecture Series, Boston, MA, 1-88
3. Anterior uveitis, Boston Ophthalmology Residents' Lecture Series, Boston, MA, 2-88
4. Conjunctival antigen challenge, Symposium on antigen challenge, Ft. Lauderdale, FL, 5-88
5. Ocular manifestations of rheumatological disease, Brigham and Women's Hospital, Department of Rheumatology and Immunology Grand Rounds, Boston, MA, 10-88
6. Ocular Immunology, University of Michigan Medical School, Department of Ophthalmology, Ann Arbor, MI, 12-88, Visiting Professor
7. Pediatric uveitis, Boston University Tufts Medical School Resident Lecture Series, Boston, MA, 1-89
8. Peripheral corneal lesions, Harvard Medical School Continuing Medical Education Course: Cornea and External Diseases, Boston, MA, 3-89
9. Ocular manifestations of rheumatological disease, University of Massachusetts Medical Center, Department of Rheumatology, Worcester, MA, 3-89
10. Uveitis, Sally Letson Symposium, Ottawa, Ontario, Canada, 9-89
11. Corneal infiltrates, New England Ophthalmological Society Meeting, Boston, MA, 11-89
12. Mast cell glycosphingolipids, Eye Research Institute of the Retina Foundation Conference, Boston, MA, 1-90
13. Ocular immunology, Royal Hawaiian Eye Meeting, Maui, HA, 1-90
14. Ocular allergy, American Academy of Ophthalmology Regional Update Course, Cambridge, MA, 6-90
15. Ocular allergy, Boston University/Tufts Medical School Resident Lecture Series, Boston, MA, 10-90
16. Immunology of the eye, Harvard Medical School Continuing Medical Education Course, Boston, MA, 10-90
17. Autoimmunity and the eye, American Academy of Ophthalmology Annual Meeting Instruction Course, Atlanta, GA, 11-90

18. The eye and diseases of the skin, American Academy of Ophthalmology Annual Meeting Instruction Course, Atlanta, GA, 11-90
19. Mast cell glycosphingolipids, Massachusetts Eye and Ear Infirmary Research Lecture Series, Boston, MA, 11-90
20. Ocular allergy, Massachusetts Eye and Ear Infirmary, Cornea Service Conference, Boston, MA, 12-90
21. Management of peripheral ulcerative keratitis, Stanford University Medical Center, Stanford, CA, 2-91
22. Mast cell heterogeneity, Proctor Foundation, University of California San Francisco, San Francisco, CA, 2-91
23. Ocular allergy, Eye Foundation, University of Missouri, Kansas City, MO, 2-91
24. Practical approach to uveitis, Beth Israel Hospital, Department of Ophthalmology, Grand Rounds, Boston, MA, 3-91
25. Uveitis, Harvard Medical School, Department of Ophthalmology, Board Review Course, Boston, MA, 3-91
26. Surgical and immunosuppressive therapy of peripheral ulcerative keratitis, Department of Ophthalmology, St. Vincent's Hospital, New York, NY, 5-91
27. Ocular allergy and immunology of the cornea, Lancaster Course, Colby College, Waterville, ME, 7-91
28. Ocular cicatricial pemphigoid, New England Ophthalmological Society Meeting, Boston, MA, 9-91
29. Practical management of corneal and external disease, American Academy of Ophthalmology Annual Meeting, Instruction Course, Anaheim, CA, 10-91
30. Meeting, Instruction Course, Anaheim, CA, 10-91
31. Excimer laser phototherapeutic keratectomy, Tufts University School of Medicine, Continuing Medical Education Course, Cambridge, MA, 11-91
32. Ocular complications of systemic drugs, Narcolepsy Foundation Meeting, Cambridge, MA, 11-91
33. Diagnosis and management of collagen vascular disease of the cornea and sclera, Brigham and Women's Hospital, Division of Ophthalmology Monthly Conference, Boston, MA, 1-92
34. Uveitis, Peripheral ulcerative keratitis, Intraocular lenses, High risk keratoplasty, Tufts University School of Medicine, Continuing Medical Education Course, Kauai, HI, 1-92
35. Ocular allergy, Massachusetts General Hospital, Allergy Grand Rounds, Boston, MA, 1-92

36. Toxoplasma retinitis, East Coast Uveitis Society, University of Maryland, Baltimore, MD, 1-92
37. Practical approach to uveitis, Greater Boston Ophthalmology Residents' Lecture Series, Boston, MA, 2-92
38. Pediatric uveitis, Greater Boston Ophthalmology Residents' Lecture Series, Boston, MA, 3-92
39. Immunology and uveitis, Harvard Medical School, Department of Ophthalmology, Board Review Course, Boston, MA, 3-92
40. Management of uveitis, University of Massachusetts Medical Center, Department of Ophthalmology, Grand Rounds, Worcester, MA, 3-92
41. Ocular allergy, Ocular Allergy Roundtable, Vail, CO, 3-92
42. Intraocular lens implantation in patients with uveitis, American Society of Contemporary Ophthalmology Annual Meeting and Scientific Assembly, Chicago, IL, 4-92
43. Excimer photorefractive keratectomy, Refractive Surgery Course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 5-92
44. Anterior segment manifestations of AIDS, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 6-92
45. Differential diagnosis and treatment of the acute red eye, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 6-92.
46. Excimer laser, corneal transplantation, Phacoemulsification, Tufts University School of Medicine, Continuing Medical Education, Bermuda, 6-92
47. Phototherapeutic keratectomy, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 9-92
48. Acute red eye, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 10-92
49. Ocular allergy, Boston University School of Medicine, Greater Boston Ophthalmology Residents Basic and Clinical Science Course, Boston, MA, 10-92
50. Practical approach to management of ocular inflammatory disorders, Connecticut Society of Eye Physicians, Burlington, CT, 10-92
51. Update on ocular anti-inflammatory therapy, Connecticut Society of Eye Physicians, Burlington, CT, 10-92
52. Vitrectomy course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 10-92

53. Cicatrizing conjunctivitis: differential diagnosis, New England Ophthalmological Society, Boston, MA, 10-92
54. Ocular cicatricial pemphigoid, corneal infiltrates, American Academy of Ophthalmology Annual Meeting, Dallas, TX, 11-92
55. Ocular allergy: therapeutics, American College of Allergy and Immunology Annual Meeting, Chicago, IL, 11-92
56. Conjunctival antigen challenge, Symposium on Provocative Challenge, Ft. Lauderdale, FL, 1-93
57. Ocular allergy, Seminars in Allergy, Boston, MA, 1-93
58. High-risk keratoplasty, Phototherapeutic keratectomy with the Summit laser, Basic anatomy and physiology of the eye, Diseases of the cornea, Innovations in Clinical Ophthalmology, Maui, HI, 1-93
59. Ocular allergy, Buffalo Ophthalmological Society, Buffalo, NY, 3-93
60. Ocular allergy, American Academy of Allergy and Immunology, Annual Meeting, Chicago, IL, 3-93
61. Diagnosis and therapy of ocular allergy, Brooklyn Ophthalmological Society, Brooklyn, NY, 3-93
62. Phototherapeutic keratectomy (PTK), Refractive Surgery Course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 3-93
63. Ocular immunology: concepts for clinical practice, Intensive Review of Ophthalmology, Harvard Medical School, Boston, MA, 3-93
64. Diagnosis and management of ocular allergy, Lahey Clinic, Burlington, MA, 4-93
65. Phototherapeutic keratectomy, Summit Technology Visionaries Seminar, Boston, MA, 4-93
66. Ocular allergy, Suffolk County Ophthalmology Group, Long Island, NY, 5-93
67. Acute red eye, Emergency course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 5-93
68. Ocular allergy, Dallas/Ft. Worth Ophthalmology Group, Dallas, TX, 6-93
69. Therapy of ocular inflammation, Los Angeles Ophthalmology Group, Los Angeles, CA, 6-93
70. Therapy of ocular inflammation, Allegheny County Medical Society, Pittsburgh, PA, 7-93
71. Immunology of Type I hypersensitivity reactions, Pan American Association of Ophthalmology, Annual Congress, Caracas, Venezuela, 7-93

72. Ocular inflammation, New England Ophthalmological Society, Course moderator, Boston, MA, 9-93
73. Phototherapeutic keratectomy, Refractive Surgery Course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 9-93
74. Immunopathology of ocular diseases related to rheumatic diseases: anterior segment, Workshop on the Immunology of the Joint and the Eye, University Eye Clinic, Tubingen, Germany, Workshop moderator, 10-93
75. Phototherapeutic keratectomy, Laser course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 10-93
76. Medical and surgical management of corneal and external diseases, Hospital Juarez de Mexico, Visiting Professor, Mexico City, Mexico, 10-93
77. Management of corneal infiltrates, Cornea Colloquium, Mexican Society of Ophthalmology and the Mexican Corneal Center, Mexico City, Mexico, 10-93
78. Management of uveitis and immune mediated diseases of the eye, Primary Care Physicians' Course, Tufts University School of Medicine, Continuing Medical Education, Boston, MA, 11-93
79. Management of corneal infiltrates and ocular cicatricial pemphigoid, American Academy of Ophthalmology Annual Meeting Instruction Course, Chicago, IL, 11-93
80. Intraocular lenses in patients with uveitis, New England Ophthalmological Society, Boston, MA, 12-93
81. Ocular allergy, Illinois Eye and Ear Infirmary Grand Rounds, Chicago, IL, 12-93
82. Excimer photorefractive keratectomy versus radial keratotomy, Refractive Surgery Course, Tufts University School of Medicine, Boston, MA, 1-94
83. Management of inflammation after cataract surgery, Phototherapeutic keratectomy, Tufts University School of Medicine, Continuing Medical Education Course, Maui, HI, 1-94
84. Practical use of dapsone for ocular inflammation, Aspen Corneal Society, Aspen CO, 2-94
85. Wegener's granulomatosis of the orbit, Massachusetts General Hospital Clinicopathologic Conference, Boston, MA, 3-94
86. Acute red eye, Ocular Emergencies Course, Tufts University School of Medicine, Continuing Medical Education Course, Boston, MA, 3-94
87. Immune-mediated eye disease, U Massachusetts Medical Center, Department of Rheumatology Grand Rounds, Worcester, MA, 4-94
88. Treatment of post-operative inflammation, New England Ophthalmological Society Meeting, Boston, MA, 4-94

89. Ocular allergies, Washington, DC Ophthalmological Society, Washington, DC, 4-94
90. Ocular allergies, Wilmington Ophthalmological Society, Wilmington, DE, 4-94
91. Sympathetic ophthalmia, National Eye Trauma Symposium, Boston, MA, 5-94
92. Allergy: current concepts and therapy, University of California, Los Angeles, Department of Ophthalmology Grand Rounds, Los Angeles, CA, 5-94
93. Nantucket Cornea, Course Director, Nantucket, MA, 8-94
94. Current concepts in ocular allergy, University of Iowa, Department of Ophthalmology Grand Rounds, Iowa City, Iowa, 9-94
95. Ocular cicatricial pemphigoid, Workshop on Autoimmunity, Co-Director, Ettal, Germany, 10-94
96. Clinical trials of cyclooxygenase inhibitors and antihistamines, Workshop on Immunotherapy and immunomodulation of eye diseases (experimental or clinical), JERMOV, Montepelier, France, 10-94
97. Ocular inflammation, Visiting Professor, Penn State College of Medicine, Hershey, PA, 10-94
98. Phototherapeutic keratectomy, American Academy of Ophthalmology Annual Meeting, San Francisco, CA, 11-94
99. IOL exchange, New England Ophthalmological Society, Boston, MA, 12-94
100. Ocular allergy, Central South Carolina Ophthalmology Society, Columbia, SC, 1-95
101. Complications of phototherapeutic keratectomy, Aspen Corneal Society Meeting, Aspen, CO, 2-95
102. Complications of phototherapeutic keratectomy, ASCRS Annual Meeting, San Diego, CA, 3-95
103. Prolonged inflammation after cataract surgery, Anterior segment complications associated with intraocular lenses. 1995 Complications of Cataract Surgery Conference, University of Tennessee Graduate School of Medicine, Knoxville, TN, 4-95
104. Practical management of corneal infiltrates, Therapeutic use of the excimer laser, Pearls of Ocular Therapy, Scripps Clinic and Research Foundation, La Jolla, CA, 5-95
105. Diagnosing eye allergies, Therapy of ocular allergy, Florida Allergy and Immunology Society Annual Meeting, Tampa, FL, 6-95
106. Phototherapeutic keratectomy, Tufts University School of Medicine Continuing Medicine Education Course, Course Director, Boston, MA, 6-95

107. Photorefractive keratectomy, Phototherapeutic keratectomy. Corneal immunologic disease, New concepts in ocular allergy. Centro Mexicano de Cornea Annual Meeting, Puerto Vallarta, Mexico, 7-95
108. Nantucket Cornea, Course Director, Nantucket, MA, 8-95
109. Ocular inflammation, Omaha Ophthalmological Society, Omaha, NE, 9-95
110. Update on Ocular Infections, Tufts University School of Medicine, Continuing Medical Education Course, Course Director, Boston, MA, 9-95
111. Ocular Surface, Moderator, JERMOV, Montepelier, France, 10-95
112. Excimer laser wet lab, Instructional Course, American Academy of Ophthalmology Annual Meeting, Atlanta, GA, 11-95
113. Immunologic diseases of the eye, Instructional Course, Joint Commission of Allied Health Professionals Organization, Atlanta, GA, 11-95
114. Excimer laser: current experience in the United States, Utsunomiya, Japan, 11-95
115. Systemic immunosuppressive therapy of external ocular disease, Kyoto Prefectural University of Medicine, Kyoto, Japan, 11-95
116. Laser safety, Regulatory labeling for PRK, Photorefractive Keratectomy, Tufts University School of Medicine, Continuing Medical Education Course, Boston, MA, 11-95
117. Update on ocular allergy, Dallas Academy of Ophthalmology, Dallas, TX, 12-95
118. Immunosuppressive therapy of external ocular disease, Visiting Professor, University of Texas Southwestern Medical Center at Dallas, TX, 12-95
119. Phototherapeutic keratectomy, Nassau Surgical Society Annual Clinic Day, Uniondale, NY, 12-95
120. OCP, Scleritis and peripheral ulcerative keratitis, Greater New York Ophthalmology Clinical Lecture Series, New York, NY, 12-95
121. Laboratory and clinical aspects of ocular allergy, Manhattan Eye, Ear, Nose and Throat Hospital Conference, New York, NY, 12-95
122. Ocular allergy, Lenox Hill Hospital Grand Rounds, New York, NY, 12-95
123. Laser safety, Regulatory labeling for PRK, PRK results, Photorefractive Keratectomy course, University of Cincinnati, OH, 12-95
124. Rheumatic diseases viewed through the ophthalmoscope, New England Rheumatism Society, Dedham, MA, 12-95

125. Treatment of cystoid macular edema, Post-operative inflammation, Moderator: Update on Drug Therapy, Tufts University School of Medicine, Continuing Medical Education Course, Maui, HI, 1-96
126. Ocular allergy: new therapy, New England Medical Center Division of Allergy, Boston, MA, 2-96
127. Allergen challenge: Ocular responses to cat dander, Aspen Cornea Society, Aspen, CO, 2-96
128. Photorefractive keratectomy, University of Connecticut, Hartford, CT, 3-96
129. Mast cells, Workshop on the Immunology of the Skin and Eye, Ettal, Germany, 3-96
130. Introduction to Phacoemulsification, SAMSO, Dhahran, Saudi Arabia, 4-96
131. Update on uveitis, Co-Moderator, New England Ophthalmological Society, Boston, MA, 4-96
132. Ocular responses to toxins: Subjective and Objective, Harrison Research Laboratory Colloquium, Union, NJ, 5-96
133. Ocular allergy, St. Barnabus Medical Center Quarterly Conference, Livingston, NJ, 5-96
134. Nantucket Cornea, Course Director, Nantucket, MA, 8-96
135. Scleritis and peripheral ulcerative keratitis, Update on ocular allergies, Ocular cicatricial pemphigoid, XII Brazilian and Pan American Congress on Prevention of Blindness, Sao Paulo, Brazil, 9-96
136. Diagnosis and treatment of ocular allergies, San Antonio Society of Ophthalmology, San Antonio, TX, 10-96
137. Scleritis, Visiting Professor, Department of Ophthalmology, University of Texas, San Antonio, TX, 10-96
138. Immunologic diseases of the eye, Instructional Course, Joint Commission of Allied Health Professionals Organization, Chicago, IL, 10-96
139. Inflammation and cataract surgery, Western Carolina Ophthalmological Society, Asheville, NC, 11-96
140. Scleritis, Which eye drops should be used after PRK?, Cleveland Ophthalmological Society, Cleveland, OH, 12-96
141. Optical coherence tomography of CME after cataract surgery, Solving ocular allergies, Acute red eye, Tufts University School of Medicine, Continuing Medical Education Course, Moderator, Maui, HI, 1-97
142. Scleritis after cataract surgery, Aspen Cornea Society, Aspen, CO, 2-97
143. Advanced Phacoemulsification, SAMSO, Dhahran, Saudi Arabia, 6-97

144. Ocular allergy, New England Ophthalmological Society, Boston, MA, 6-97
145. Ocular therapy update course, Tufts University School of Medicine Continuing Medical Education Course, Course Director, Boston, MA, 6-97
146. Nantucket Cornea, Course Director, Nantucket, MA, 8-97
147. Lyme disease, Allergic eye disease, New Jersey Academy of Ophthalmology Annual Scientific Meeting, Eatontown, NJ, 9-97
148. Mast cell biology, 20th Biennial Cornea Research Conference, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA, 9-97
149. Immunosuppressive therapy of ocular surface disease, American Academy of Ophthalmology Annual Meeting, San Francisco, CA, 10-97
150. Corneal transplantation: Special techniques for keratoconus, American Academy of Ophthalmology Annual Meeting instruction course, San Francisco, CA, 10-97
151. Corneal challenges, American Academy of Ophthalmology Annual Meeting instruction course, San Francisco, CA, 10-97
152. Practical management of allergy, Tufts University School of Medicine, Continuing Medical Education Course, Moderator, Maui, HI, 1-98
153. Update on the ocular allergic response, Aspen Cornea Society, Aspen, CO, 2-98
154. Prophylaxis of post-cataract cystoid macular edema, Current Concepts in Ophthalmology, Johns Hopkins School of Medicine, Continuing Medical Education Course, Vail, CO, 3-98
155. Therapy of macular edema, New England Ophthalmological Society, Boston, MA, 5-98
156. Retinal vasculitis, Herpes zoster ophthalmicus, Acute retinal necrosis, Management of cystoid macular edema, Immunosuppressive therapy in uveitis, Royal College lecturer, Atlantic Provinces Ophthalmological Society, Charlottetown, Prince Edward Island, 5-98
157. Nantucket Cornea, Course Director, Nantucket, MA, 8-98
158. Comprehensive Eye Update for the Latin American Practitioner, 13<sup>th</sup> Brazilian Congress of Blindness Prevention and Visual Rehabilitation, Rio, Brazil, 9-98
159. Pemphigoid, Scleritis, and Autoimmune Diseases, Greater New York Ophthalmology Clinical Lecture Series, Manhattan Eye, Ear & Throat Hospital, New York, NY, 9-98
160. Use of Steroids in External Disease, Corneal Infiltrates, Scleritis, Ocular Allergy, Edward Harkness Eye Institute Clinical Lecture Series, Columbia University, New York, NY, 10-98
161. International Allergy Workshop, Napa, CA, 11-98

162. Pathophysiology and Differential Diagnosis of Ocular Allergy, American College of Allergy, Asthma, and Immunology Annual Meeting, Philadelphia, PA, 11-98
163. Lyme Disease and the Eye, Rhode Island Hospital Grand Rounds, Brown University Medical School, Providence, RI, 12-98
164. Overview of Systemic Immunosuppressive Therapy, Aspen Corneal Society, Aspen, CO, 2-99
165. Update on the Ocular Allergic Response, Aspen Corneal Society, Aspen, CO, 2-99
166. Managing Ocular Allergies, Ocular Drug and Surgical Therapy Update, Laguna Niguel, CA, 3-99
167. Peripheral Ulcerative Keratitis, New England Ophthalmological Society, Boston, MA, 3-99
168. Practical Systemic Immunosuppressive Therapy for the Ophthalmologist and Therapy of Ocular Allergy. Current Concepts in Ophthalmology, Johns Hopkins School of Medicine, Continuing Medical Education Course, Vail, CO, 3-99
169. LASIK and the Hansatome, Refractive Surgery--The New Year, Cataract Surgery in Uveitis Patients, Practical Management of Cicatrizing Conjunctivitis. 20<sup>th</sup> Annual Medical College of Virginia and Virginia Commonwealth University Ophthalmology Conference, Williamsburg, VA, 4-99
170. Visiting Professor, University of Michigan, Kellogg Eye Center, 6-99
171. Refractive Thermokeratoplasty and Radio Frequency Correction of Hyperopia, American Academy of Ophthalmology, Annual Refractive Surgery Course, Orlando, FL, 10-99
172. Update on Cornea and External Disease, Instruction Course, American Academy of Ophthalmology Annual Meeting, Orlando, FL 10-99
173. Conjunctival Challenge, American College of Allergy, Asthma and Immunology, Chicago, IL 11-99
174. Corneal Surgery Instruction Course, Dhahran, Saudi Arabia, 11-99
175. LASIK Surgery, Newton-Wellesley Hospital, Surgical Grand Rounds, Newton, MA 1-00
176. Diagnosis and Treatment of Posterior Uveitis, Practical Immunosuppressive Therapy for the Ophthalmologist, Hawaii 2000 Physician's Program, Maui, HI 1-00
177. Risks and Benefits of Routine Topical Non-steroidal Therapy after Cataract Surgery, Aspen Corneal Society, Aspen, CO, 2-00
178. Laser Vision Correction Panel, SG Cowen Healthcare Conference, Boston, MA 3-00
179. Appropriate Topical Steroid and Non-steroidal Therapy for Cataract Surgery, New England Ophthalmological Society Meeting, Boston, MA 3-00

180. Refractive Surgery Roundtable and Use of Non-steroidal Drops after Cataract Surgery, Wilmer Current Concepts in Ophthalmology Meeting, Johns Hopkins School of Medicine, Continuing Medical Education Course, Vail, CO, 3-00
181. Pharmacology of Cataract and Refractive Surgery, Instruction Course, American Society of Cataract and Refractive Surgery, Annual Meeting, Boston, MA 5-00
182. Ocular Disease, Brigham & Womens Hospital, Introductory Course, Allergy and Immunology, Boston, MA 7-00
183. Nantucket Cornea, Course Director, Nantucket, MA 7-00 (yearly)