

Richard Frederick Spaide, M.D.

Curriculum vitae

Current Address: Vitreous, Retina, Macula Consultants of New York
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Positions:

1994 - Present	Private Practice, Vitreous Retina Macula Consultants of New York
1990 - 2001	Private Practice St. Vincent's Hospital and Medical Center of New York
1990 - 1991	Retina Instructor, Manhattan Eye, Ear, and Throat Hospital.
1989 - 1990	Retina Fellow, Manhattan Eye, Ear, and Throat Hospital
1986 - 1989	Chief, Ophthalmology Service Landstuhl Army Regional Medical Center
1985 - 1986	Ophthalmologist Landstuhl Army Regional Medical Center

Board Certification: Certified by the American Board of Ophthalmology in June 1987.

Licensure: Unrestricted license to practice medicine from the State of New York. Number 164816-1.

Education:

1989 - 1990	Vitreous/Retina Fellowship Manhattan Eye, Ear, and Throat Hospital, New York, NY
1982 -1985	Ophthalmology Resident St. Vincent's Hospital and Medical Center of New York New York, NY
1981 - 1982	Flexible Internship, Chestnut Hill Hospital Philadelphia, PA
1977 - 1981	M.D., Jefferson Medical College Philadelphia, PA
1973 - 1977	B.S. in Natural Sciences Muhlenberg College, Allentown, PA

Associations:

Chairman, Board of Medical Directors, National Association for the Visually Handicapped
Medical Advisory Board, Macular Degeneration Partnership
Medical Advisor, Journal of Ophthalmic Photography
Member, Association for Research in Vision and Ophthalmology
Member, New York State and County Medical Society
New York Ophthalmologic Society
Manhattan Ophthalmologic Society
Member, International Ocular Inflammation Society
Member, Ophthalmic Laser Society
Medical Advisory Board, Eye Bank for Sight Restoration

Honorary Societies:

Fellow, American Academy of Ophthalmology, 1988
American Uveitis Society, 1992
Macula Society, 1993
American Society of Retinal Surgeons (Vitreous Society), 1994
Fellow, American College of Surgeons, 1996-99
Retina Society, 1998

Books

1. Diseases of the Vitreous and Retina. Spaide RF, WB Saunders Co. 1999.
2. Age-Related Macular Degeneration. Holz F, Pauleikhoff D, Spaide, RF, and Bird A. Springer Verlag 2004.
3. American Academy of Ophthalmology's Basic and Clinical Sciences Course, Volume 12, Retina and Vitreous, Writing Committee. 2004 – 2009, 2 major editions.
4. Medical Retina. Holz F and Spaide RF. Springer Verlag 2005.
5. Medical Retina. Holz F and Spaide RF. Springer Verlag, 2007.
6. Atlas of Fundus Autofluorescence Imaging. Holz F, Schmitz-Valckenberg S, Spaide RF, Bird AC. Springer Verlag, 2007.
7. Medical Retina. Focus on Imaging. Holz F and Spaide RF. Springer Verlag, 2010.
8. Age-Related Macular Degeneration. Holz F, Pauleikhoff D, Spaide, RF, and Bird A. Springer Verlag, Second Edition, 2013.
9. Pathologic Myopia. Spaide RF, Ohno-Matsui K, Yannuzzi LA. Springer 2014.

Publications:

1. Spaide RF: Patientspeak. The New Physician, 5: 5-6, 1983.
2. Spaide RF, Nattis R, Lipka A, and D'Amico, RA: Ocular Findings in Leprosy in the United States. Am J Ophthalmol, 100(15): 411-416, 1985.
3. Spaide RF, Diamond, G, D'Amico, RA, Gaerlan PF, and Bisberg DS: Ocular Findings in Cystic Fibrosis. Am J Ophthalmol, 103(2): 204-210, 1987.

4. Spaide RF: Depth Distortion with the Goldmann Fundus Contact Lens. *Ophthalmology* 94(2): 202-203, 1987.
5. Spaide RF: Shaken Baby Syndrome: Retinal and Computed Tomographic Findings. *J Clin Neuro-ophthalmol* 7(2) 108-111, 1987.
6. Spaide RF: A New Scleral Depressor for Infants. *Ophthalmic Surgery*, 18(7): 544, 1987.
7. Spaide RF, Klara PM, and Restuccia RD: Spasmus Nutans as the Presenting sign of an Arachnoid Cyst. *Pediatr. Neurosci*, 12:311-314(1985-86). Released September, 1987.
8. Spaide RF, Granger E, Hammer BD, Negron FJ, and Paglen PG: Rapidly Expanding Exophthalmos: an Unusual Presentation of Small Cell Lung Cancer. *Brit J Ophthalmol*, 73: 461-462, 1989.
9. Spaide RF: Who Knows How Much a Cataract Extraction Costs? *Ophthalmic Surgery*, 20: 141-142, 1989.
10. Spaide RF, Swengel RM, and Scharre DW: Shaken Baby Syndrome. *AFP*, 41: 1145-1152, 1990.
11. Spaide RF and Ward DL: Conjunctival Biopsy in the Diagnosis of Sarcoidosis. *Brit J Ophthalmol*, 74: 469-471, 1990.
12. Yannuzzi LA, Sorensen J, Spaide RF, and Lipson B: Idiopathic Polypoidal Choroidal Vasculopathy. *Retina* 10:1-8, 1990.
13. Spaide RF, Skerry JE, Yannuzzi LA, DeRosa JT: Lack of the HLA-DR2 Specificity in Multifocal Choroiditis and Panuveitis. *Brit J Ophthal*, 74: 536-537, 1990.
14. Spaide RF, Yannuzzi LA, and Freund KB: Linear Streaks in Multifocal Choroiditis and Panuveitis. *Retina* 11:229-231, 1991.
15. Spaide RF, Yannuzzi LA, Slakter J: Choroidal Vasculitis in Acute Posterior Multifocal Placoid Pigment Epitheliopathy. *Brit J Ophthalmology* 75: 685-687, 1991.
16. Margolis TP, Lowder CY, Holland GN, Spaide RF, Logan AG, Weissman SS, Irvine AR, Josephberg R, Meisler DM, O'Donnell JJ: Varicella Zoster Retinitis in Patients with the Acquired Immunodeficiency Syndrome. *Am J Ophthalmol* 112:119-131, 1991.
17. Spaide RF, Sugin S, DeRosa JT, Yannuzzi LA: Epstein-Barr Viral Antibodies in Multifocal Choroiditis and Panuveitis. *Am J Ophthalmol* 112: 410-413, 1991.
18. Wald K, Spaide RF, Sugin S, Yannuzzi LA, Patalano J: Posterior scleritis in children. *Am J Ophthalmol* 113 (3): 281-286, 1992.
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20. Spaide RF, Vitale A, Toth I, and Oliver JM: Frosted Angiitis Associated with Cytomegalovirus Retinitis. *Am J Ophthalmol* 113(5): 522-528, 1992.
21. Vitale A, Spaide RF, Warren F, and D'Amico DA: An Unusual Presentation of Orbital Aspergillosis in a Patient with AIDS. *Am J Ophthalmol* 113(6): 725-726, 1992.
22. Ie D, Yannuzzi LA, Spaide RF, Rabb M: Subretinal Exudative Deposits in Central Serous Chorioretinopathy. *British J Ophthalmol* 77:349-353, 1993.
23. Spaide RF, Yannuzzi LA, and Sisco L: Chronic Cystoid Macular Edema and Predictors of Visual Acuity. *Ophthalmic Surgery* 24: 262-267, 1993.
24. Spaide RF: Orbital Retractors for Posterior Segment Surgery. *Ophthalmic Surgery* 24: 497, 1993.

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72. Spaide RF. Macular hole repair with minimal vitrectomy. *Retina* 2002;22:183-186
73. Spaide RF, Martin ML, Slakter J, et al. Treatment of idiopathic subfoveal choroidal neovascular lesions using photodynamic therapy with verteporfin. *Am J Ophthalmol* 2002;134:62-8

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77. Spaide RF. Persistent intraocular indocyanine green staining after macular hole surgery. *Retina* 2002;22:637-9
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79. Spaide RF, Freund KB, Slakter J, Sorenson J, Yannuzzi LA, Fisher Y. Treatment of subfoveal choroidal neovascularization associated with multifocal choroiditis and panuveitis with photodynamic therapy. *Retina* 2002;22:545-9
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277. Ross DH, Clark ME, Godara P, Huisingh C, McGwin G, Owsley C, Litts KM, Spaide RF, Sloan KR, Curcio CA. RefMoB, a Reflectivity Feature Model-Based Automated Method for Measuring Four Outer Retinal Hyperreflective Bands in Optical Coherence Tomography. *Invest Ophthalmol Vis Sci.* 2015 Jul;56(8):4166-76

Review Articles and Book Chapters

(Abbreviated list)

1. Spaide RF and Yannuzzi LA: Treatment of Post-cataract Surgery Cystoid Macular Edema. (Monograph) *Clinical Signs in Ophthalmology*, Volume 8(4), 1992.
2. Spaide RF and Yannuzzi LA: Cystoid Macular Edema after Cataract Surgery. *Seminars in Ophthalmology* 8: 121-129, 1993.
3. Spaide RF: Post-Surgical Cystoid Macular Edema. *Ophthalmic Practice*, 1994.

4. Spaide RF: Cystoid Macular Edema After Ocular Surgery. Chapter in *Ophthalmic Surgery Complications. Prevention and Management*, Judie Charlton, M.D., George W. Weinstein, M.D., editors. J.B. Lippincott, 1995.
5. Spaide, RF, Yannuzzi LA. Mechanisms Maintaining Retinal and Pigment Epithelial Attachment: A Theoretical Framework with Practical Considerations. Chapter in Marmor MF, Wolfensberger (eds) *The Retinal Pigment Epithelium* New York, Oxford Press 1998.
6. Spaide RF: Idiopathic polypoidal choroidal vasculopathy. In Yannuzzi LA, Flower DW, Slakter JS (eds): *Indocyanine Green Angiography*. St. Louis, MO: CV Mosby 1996.
7. Spaide RF. Frosted Branch Angiitis. Chapter in *Vitreous, Retina, Macula*, edited by David Guyer, Lawrence Yannuzzi, Stanley Chang, and Jerry Shields, in preparation.
8. Chang A, Spaide RF, Yannuzzi LA. Post-surgical cystoid macular edema. Chapter in *Vitreous, Retina, Macula*, edited by David Guyer, Lawrence Yannuzzi, Stanley Chang, and Jerry Shields, 1998.
9. Spaide RF, Frosted Branch Angiitis. Chapter in *Vitreous, Retina, Macula*, edited by David Guyer, Lawrence Yannuzzi, Stanley Chang, and Jerry Shields, 1998.
10. Guyer DR, Yannuzzi LA, Slakter JS, Sorenson JA, Spaide RF, Freund KB, Orlock D, Principles of Indocyanine Green Angiography. Chapter in *Vitreous, Retina, Macula*, edited by David Guyer, Lawrence Yannuzzi, Stanley Chang, and Jerry Shields, 1998.
11. Guyer DR, Gragoudas ES, Spaide RF. Central Serous Chorioretinopathy. (Chapter) *Principles and Practice of Ophthalmology*.
12. Slakter JS, Yannuzzi LA, Guyer DR, Sorenson JA, Spaide RF, Fisher YL, Orlock DA. Indocyanine Green Videoangiography: Principles, Technique, and Complications. In Tasman W and Jaeger EA (eds) *Duane's Foundations of Clinical Ophthalmology*, Philadelphia, Lippincott-Raven, 1996.
13. Slakter JS, Yannuzzi LA, Guyer DR, Sorenson JA, Spaide RF, Fisher YL, Orlock DA. Diagnostic Indocyanine Green Videoangiography: Clinical Applications. In Tasman W and Jaeger EA (eds) *Duane's Foundations of Clinical Ophthalmology*, Philadelphia, Lippincott-Raven, 1996.
14. Spaide RF. Central Serous Chorioretinopathy. In Regillo CD, Brown GC, Flynn HW, Jr. *Vitreoretinal Disease. The Essentials*, New York. Thieme, 1998.
15. Spaide RF. Frosted Angiitis, IRVAN, and acute multifocal retinal vasculitis. *International Ophthalmology Clinics*, 1998.
16. Spaide RF, Miller-Rivero NE. Anatomy. In Spaide, RF. *Diseases of the Retina and Vitreous*. Philadelphia, W.B. Saunders Co. 1999.
17. Spaide RF. Examination of the Ocular Fundus. In Spaide, RF. *Diseases of the Retina and Vitreous*. Philadelphia, W.B. Saunders Co. 1999.
18. Spaide RF. Fluorescein Angiography. In Spaide, RF. *Diseases of the Retina and Vitreous*. Philadelphia, W.B. Saunders Co. 1999.
19. Tittl MK, Slakter JS, Spaide RF, Sorenson J, Guyer D. Indocyanine Green Videoangiography. In Spaide, RF. *Diseases of the Retina and Vitreous*. Philadelphia, W.B. Saunders Co. 1999.
20. Ciardella AP, Spaide RF, Fisher YL. Contact B-Scan Ultrasonography. In Spaide, RF. *Diseases of the Retina and Vitreous*. Philadelphia, W.B. Saunders Co. 1999.

21. Spaide RF. Aneurysms and Telangiectasis. In Spaide, RF. Diseases of the Retina and Vitreous. Philadelphia, W.B. Saunders Co. 1999.
22. Spaide RF. Retinal and Choroidal Manifestations of Acquired Immunodeficiency Syndrome. In Spaide, RF. Diseases of the Retina and Vitreous. Philadelphia, W.B. Saunders Co. 1999.
23. Spaide RF. White Dot Syndromes. In Spaide, RF. Diseases of the Retina and Vitreous. Philadelphia, W.B. Saunders Co. 1999.
24. Spaide RF. Tractional Maculopathies. In Spaide, RF. Diseases of the Retina and Vitreous. Philadelphia, W.B. Saunders Co. 1999.
25. Spaide RF. Central Serous Chorioretinopathy and Other Causes of Serous Detachment of the Retina. In Spaide, RF. Diseases of the Retina and Vitreous. Philadelphia, W.B. Saunders Co. 1999.
26. Spaide RF. Laser Photocoagulation. In Spaide, RF. Diseases of the Retina and Vitreous. Philadelphia, W.B. Saunders Co. 1999.
27. Guyer DR, Yannuzzi LA, Slakter JS, Sorenson JA, Spaide RF, Freund KB. Principles of Angiography- Indocyanine Green. In Retina Vitreous Macula. Guyer Dr, Yannuzzi LA, Chang S, Shields JA, Green WR (eds) Philadelphia, WB Saunders Co., 1999.
28. Chang AA, Spaide RF, Yannuzzi LA. Postsurgical cystoid macular edema. In Retina Vitreous Macula. Guyer Dr, Yannuzzi LA, Chang S, Shields JA, Green WR (eds) Philadelphia, WB Saunders Co., 1999.
29. Spaide RF. Frosted branch angiitis. In Retina Vitreous Macula. Guyer Dr, Yannuzzi LA, Chang S, Shields JA, Green WR (eds) Philadelphia, WB Saunders Co., 1999.
30. Wong D, Spaide RF, Scassellati-Sforzolini B, Fernandes LHS Slakter J. Angiography of the Ocular Fundus. In Quiroz- Mercado H, Alfaro DV, Liggett PE, Tano Y, DeJuan E Jr. Macular Surgery, Philadelphia, Lippincott Williams and Wilkins, 2000.
31. Ciardella AP, Yannuzzi LA, Slakter JS, Guyer DR, Sorenson JA, Spaide RF, Freund KB, Orlock. Indocyanine Green Angiography. In Lim JI (ed) Age-Related macular Degeneration. New York, Marcel Dekker 2002.
32. Spaide RF. Choroidal Neovascularization in Age-Related Macular Degeneration. In Yanoff M and Duker JS (eds) Ophthalmology, Philadelphia, Mosby, 2003.
33. Spaide RF. What is the Etiology of Late AMD? In Medical Retina. Holz F and Spaide RF. Springer Verlag release date May 2005.
34. Spaide RF. Central Serous Chorioretinopathy. In Medical Retina. Holz F and Spaide RF. Springer Verlag release date May 2005.
35. Spaide R. Etiology of Late-Age-Related Macular Disease. In D.V. Ilfara III, Liggett, P.V., Mieler, W.F, Quirox-Mercado, H., Jager, R.D., Tano, Y., eds. Age-Related Macular Degeneration: A Comprehensive Textbook. Philadelphia: Lippincot, Williams and Wilkins; 2006.
36. Spaide RF. Autofluorescence Photography with a Fundus Camera. In Atlas of Fundus Autofluorescence Imaging. Holz F, Schmitz-Valckenberg S, Spaide RF, Bird AC.
37. Spaide RF. Autofluorescence of Chorioretinal Inflammatory Diseases. In Atlas of Fundus Autofluorescence Imaging. Holz F, Schmitz-Valckenberg S, Spaide RF, Bird AC.

38. Spaide RF. Autofluorescence from the Outer Retina and Subretinal Space. Atlas of Fundus Autofluorescence Imaging. Holz F, Schmitz-Valckenberg S, Spaide RF, Bird AC.
39. Schmitz-Valckenberg S, Fleckenstein M, Spaide R, Holz FG. Autofluorescence Imaging. In, Holz FG, Spaide (eds) Medical Retina. Focus on Imaging, Springer Verlag, 2010.
40. Spaide R. Choroidal Imaging with Optical Coherence Tomography. In, Holz FG, Spaide (eds) Medical Retina. Focus on Imaging, Springer Verlag, 2010.
41. Spaide RF. Clinical Manifestations of Choroidal Neovascularization in AMD. In Holz F, Pauleikhoff D, Spaide, RF, and Bird A (eds.), Age-Related Macular Degeneration, second edition, 2013.
42. Spaide RF. Fundus Imaging of AMD. In Holz F, Pauleikhoff D, Spaide, RF, and Bird A (eds.), Age-Related Macular Degeneration, second edition, 2013.
43. Spaide RF. The Sclera and Induced Abnormalities in Myopia. In Spaide RF, Ohno-Matsui K, Yannuzzi LA, Pathologic Myopia. New York: Springer , 2014.
44. Spaide RF. The Choroid. In Spaide RF, Ohno-Matsui K, Yannuzzi LA, Pathologic Myopia. New York: Springer , 2014.
45. Spaide RF. Staphyloma: Part 1. In Spaide RF, Ohno-Matsui K, Yannuzzi LA, Pathologic Myopia. New York: Springer , 2014.
46. Spaide RF. Choroidal Neovascularization. In Spaide RF, Ohno-Matsui K, Yannuzzi LA, Pathologic Myopia. New York: Springer , 2014.
47. Ohno-Matsui K, Spaide RF. Myopic Optic Neuropathy. In Spaide RF, Ohno-Matsui K, Yannuzzi LA, Pathologic Myopia. New York: Springer , 2014.
48. Spaide RF. Multifocal Choroiditis and Panuveitis. In, Autofluorescence Imaging, Second Edition. Lois N Forrester JV (eds) forthcoming.

Presentations and Invited Lectures

(Abbreviated list)

1. Juvenile Macular Degeneration. The Retina Society, October 6, 1990, Key Largo, Florida.
2. Management of Postoperative Cystoid Macular Edema. American Academy of Ophthalmology, October 31, 1990, Atlanta, Georgia.
3. Juvenile Macular Degeneration. Manhattan Eye, Ear, and Throat Hospital Alumni Biennial Meeting. May 10-11, 1991.
4. Treatment of Cystoid Macular Edema in the Year 2000. Retina and Choroid 1993: Contemporary and Controversial Issues. University of Pennsylvania, January 9, 1993.
5. Indocyanine Green Angiography of Idiopathic Polypoidal Choroidal Vasculopathy. International Indocyanine Green Symposium. Cornell University, January 16, 1993.
6. Race, Drusen and Choroidal Filling Defects. Ophthalmology Grand Rounds, St. Vincent's Hospital. February, 1993.
7. Indocyanine Green Angiography of Idiopathic Polypoidal Choroidal Vasculopathy. Indocyanine SIG at ARVO May 1993.
8. New Aspects of the Ocular Complications of AIDS. Manhattan Eye, Ear, and Throat Hospital. May 1993.

9. New Aspects of the Ocular Complications of AIDS. Ophthalmology Grand Rounds, Cabrini Medical Center. June 1993.
10. Cotton-wool Spots and Cytomegalovirus Retinitis. (Poster) American Academy of Ophthalmology. November, 1993.
11. Treatment of Cystoid Macular Edema. Manhattan Eye, Ear, and Throat Hospital Alumni Biennial Meeting. December, 1993.
12. Treatment of Cystoid Macular Edema/ Risk Factors for the Development of HIV-Related Retinopathy. Grand Rounds, Department of Ophthalmology, New York Medical College, January, 1994.
13. Risk Factors for the Development of HIV-Related Retinopathy. Advances in Medical and Surgical Diseases of the Retina. New York, January, 1994.
14. Focal and Multifocal Leaks From the RPE, Ophthalmology Department, New York University, New York, May 1994.
15. Visiting Professor in Ophthalmology, Northwestern University, Chicago, IL., July 15, 1994.
16. Retinal Biopsy and the Management of Progressive Outer Retinal Necrosis Syndrome. Vitreous Society, Aspen, Colorado, August 1994.
17. Treatment of Choroidal Neovascularization. Grand Rounds, Cabrini Medical Center, New York, December 28, 1994.
18. Imaging the Macula in 1995. Science and Industry Symposium, CLAO Annual Meeting, Las Vegas, January 11, 1995.
19. Risk Factors for Cotton-wool Spots and Cytomegalovirus Retinitis. Macula Society meeting, Palm Beach, Florida, February, 1995.
20. Multifocal Choroidal Vascular Hyperpermeability - A Central-Serous-like Syndrome in Older Adults. Second International Symposium on Indocyanine Green Angiography, Nara, Japan, April 8, 1995.
21. Treatment of Choroidal Neovascularization. Ophthalmology Grand Rounds, New York University, New York, April 12, 1995.
22. Indocyanine Green Angiography of Occult Choroidal Neovascularization. Pan-American Congress of Ophthalmology, Quito, Ecuador, June 28, 1995.
23. Macular Degeneration. National Association for Visually Handicapped. July 15, 1995.
24. New Developments in Macular Diseases. Ophthalmology Grand Rounds, St. Vincent's Hospital and Medical Center of New York. September 1995.
25. Digital Subtraction Indocyanine Green Angiography. Wills Eye Hospital Vitreoretinal Update, September 23, 1995.
26. Central Serous Chorioretinopathy in Older Adults. American Academy of Ophthalmology Annual Meeting, Atlanta, November 2, 1995.
27. Digital Subtraction Indocyanine Green Angiography of Occult Choroidal Neovascularization. Macula Society, Tucson, Arizona, February, 1996.
28. How To: Three Treatable Forms of Macular Edema. Ophthalmology Grand Rounds, Cabrini Medical Center February 1996.
29. Moderator, ICG Angiography section and presenter of Digital Subtraction Indocyanine Green Angiography of Occult Choroidal Neovascularization. Association for Research in Vision and Ophthalmology, Ft. Lauderdale, Fl, April, 1996.

30. Digital Subtraction Indocyanine Green Angiography of Occult Choroidal Neovascularization. International Symposium on Retinal Pigment Epithelium and European Macular Group, May, 1996, Genoa, Italy.
31. Visiting Faculty, Combined Orbis and Singapore National Eye Center Joint Conference, Singapore, August 1-5, 1996.
32. Feature lecture: Update on Central Serous Chorioretinopathy in the meeting Update on Selected Vitreoretinal Diseases at Wills Eye Hospital, Philadelphia, September 21, 1996.
33. Serous detachment of the retina. New York City Resident lecture series, Manhattan Eye, Ear, and Throat Hospital, New York, November 20, 1996.
34. Digital Subtraction Indocyanine Green Angiography [poster]. American Academy of Ophthalmology, Chicago, IL October 1996.
35. Wide-Angle Angiography [poster]. American Academy of Ophthalmology, Chicago, IL October 1996.
36. Advances in ICG Angiography. NYU Ophthalmology Grand Rounds. January 1997.
37. Real Time Indocyanine Green Angiography with a Fundus Camera. Sixth International Meeting on Scanning Laser Ophthalmoscopy, Tomography and Microscopy, Paris, France. February 1997.
38. External Beam Radiation Therapy for Choroidal Neovascularization. Ophthalmology Grand Rounds, Cabrini Medical Center, New York, February 1997.
39. Digital Insights. (Course coordinator) Manhattan Eye, Ear, and Throat Hospital, New York, NY March 7-8, 1997.
40. Central Serous Chorioretinopathy in Younger and Older Adults. Retina Symposium, Poznan, Poland, April 1997.
41. External Beam Radiation Therapy for Choroidal Neovascularization. New York Society for Clinical Ophthalmology Biennial Meeting, 1997.
42. External Beam Radiation Therapy for Choroidal Neovascularization. Macula Society, Florence, Italy, June 1997.
43. Laser photocoagulation. Age Related Macular Degeneration. Macular Holes. Macular Pucker. Lancaster Course in Ophthalmology, Colby College, Maine, July 1997.
44. Acute multifocal retinal vasculitis, frosted angiitis, and IRVAN. First International Symposium on Retinal Vasculitis. American Academy of Ophthalmology, October 1997.
45. Treatment of Age-Related Macular Degeneration. Introduction to Indocyanine Green Angiography. Characterization of Lipid Peroxides in Bruch's Membrane. Yale University, December 1997.
46. Treatment of Age-Related Macular Degeneration. Introduction to Indocyanine Green Angiography. Characterization of Lipid Peroxides in Bruch's Membrane. Providence, RI Feb 1998.
47. Radiation Treatment for Age-Related Macular Degeneration. Characterization of Lipid Peroxides in Bruch's Membrane. University of Maryland, Baltimore March 1998.
48. Vitreoretinal Biopsy. Vitreoretinal Surgery Update, Manhattan Eye, Ear, and Throat Hospital, March 1998.
49. Radiation Therapy for Choroidal Neovascularization. Nantucket Retina Meeting, Nantucket, 1998.
50. Grand Rounds. Hershey Medical Center, Hershey, PA. October, 1998.

51. Radiotherapy for Macular Degeneration. Vitreoretinal Subspecialty Day, American Academy of Ophthalmology. New Orleans, November 6, 1998.
52. Radiation-Associated Choroidal Neovascularopathy. American Academy of Ophthalmology New Orleans, November 9, 1998.
53. Optical Coherence Tomography of Macular Hole States. Macula Society, San Diego CA, Feb. 1999.
54. Optical Coherence Tomography of Macular Hole States. First International Meeting of Optical Coherence Tomography. Sarasota FL 1999.
55. Optical Coherence Tomography of Macular Hole States. Radiation Treatment for Age-Related Macular Degeneration. Characterization of Lipid Peroxides in Bruch's Membrane. New Directions in Retina and Vitreous Surgery, Mexico City, Mexico, 1999.
56. Optical Coherence Tomography of Macular Hole States. Nantucket Retina Meeting, Nantucket, 1999.
57. Wide-Angle ICG Angiography of Peripheral Choroidal Neovascularization. Fourth International Meeting on ICG Angiography, Baden-Baden, Germany, 1999.
58. New Insights into Macular Holes, Retina and Vitreous Subspecialty Meeting, The American Academy of Ophthalmology, November 1999.
59. Retina. The Future. In March to the Millennium, The New York Society for Clinical Ophthalmology, New York, December 6, 1999.
60. ARN, PORN, APMPPE at Mt. Sinai, New York, December 15, 1999.
61. Wide-Angle ICG Angiography and Peripheral Choroidal Neovascularization. Macula 2000, New York, NY, Jan. 2000.
62. Wide-Angle ICG Angiography and Peripheral Choroidal Neovascularization. Macula Society, Puerto Rico, 2000.
63. Optical Coherence Tomography and Macular Hole States, 2nd International Meeting on Optical Coherence Tomography, May 2000, Sarasota, FL.
64. Optical Coherence Tomography and Macular Hole States, VIth Mediterranean Ophthalmological Society Congress. VIth Michaelson Symposium on Ocular Circulation and Neovascularization. Jerusalem, Israel, June 2000.
65. Retinal Vasculitis, International Ocular Inflammation Society Symposium, Istanbul, Turkey, June 2000.
66. Pathogenesis of CNV in ARMD and its Implications on Treatment. New Developments in Retinal Disease and Vitreous Surgery. Baltimore, MD, September, 2000.
67. Why does choroidal neovascularization occur in age-related macular degeneration? Rosenthal Award Lecture, Macula Society, Scottsdale, Arizona, March 2001.
68. Minimal vitrectomy macular hole repair. Nantucket Retina Meeting, Nantucket, July 2001.
69. Alternate Uses for Photodynamic Therapy in the Treatment of Choroidal Neovascularization, Pathogenesis of Macular Holes. Invited Speaker, Wills Eye Hospital Retinal Update Course, October, 2001.
70. Pathogenesis of Macular Holes. Retina Subspecialty Meeting. American Academy of Ophthalmology, New Orleans, LA, November 2001.
71. Fundus Autofluorescence in Age-Related Macular Degeneration. American Academy of Ophthalmology, New Orleans, LA, November 2001.

72. Minimal vitrectomy macular hole repair. Vitreous Society Meeting, Puerto Rico, January 2002.
73. OCT for Diagnosis and management of Macular Diseases, Large-Spot TTT for AMD, Uses of ICG in Imaging CNV, How Does Surgery Close Macular Holes? Invited speaker, Sarasota Vitreo-retinal Update Course, Sarasota, FL, February 8,9 2002.
74. Invited speaker and surgeon. Frankfurt Retina Course. Two live surgeries and lectures about macular holes and photodynamic therapy. Frankfurt, Germany April, 2002.
75. Photodynamic Therapy for Polypoidal Choroidal Vasculopathy. The Club Jules Gonin, Montreux, Switzerland. August 2002.
76. Combined Intravitreal Triamcinolone and Photodynamic Therapy for Choroidal Neovascularization in Age Related Macular Degeneration. Wills Retina Update, Philadelphia, Pa. September 2002.
77. Combined Intravitreal Triamcinolone and Photodynamic Therapy for Choroidal Neovascularization in Age Related Macular Degeneration. Vitreous Society /Retina Society Meeting. San Francisco, October 2002.
78. Combined Intravitreal Triamcinolone and Photodynamic Therapy for Choroidal Neovascularization in Age Related Macular Degeneration. Annual meeting of the American Academy of Ophthalmology, Orlando, Fl 2002.
79. Combined Intravitreal Triamcinolone and Photodynamic Therapy for Choroidal Neovascularization in Age Related Macular Degeneration. Macula 2003, New York, NY January 2003.
80. Optical Coherence Tomography of Idiopathic Parafoveal Telangiectasis, Macular holes, OCT and Fluorescein Angiographic Analysis of Post-PDT patients. OCT Workshop, Paris, France, January 31- February 1, 2003.
81. Photodynamic Therapy and Intravitreal Triamcinolone for Choroidal Neovascularization. Macula Society Meeting, Ft. Myers, Florida, March, 2003.
82. Rush Retina Update. (Featured speaker). Chicago, IL 2003.
83. Graduation and Resident Research Day Speaker, University of Colorado, June 2003.
84. Age-Related Macular Degeneration 2003. Invited speaker. Baden Baden, Germany September 2003.
85. Intravitreal Triamcinolone Discussion Panel. Subspecialty meeting, American Academy of Ophthalmology, Anaheim, CA, November, 2003
86. Combined Photodynamic Therapy and Intravitreal Triamcinolone for Choroidal Neovascularization, (paper) Optical Coherence Tomography of Idiopathic Parafoveal Telangiectasis (poster) and additional lectures and instructional courses. American Academy of Ophthalmology Annual Meeting, Anaheim, CA, November, 2003.
87. Macular holes, Photodynamic Therapy Update. Nassau County Surgery Day, Nassau County December, 2003.
88. Photodynamic Therapy Update, Invited Speaker, Philadelphia Ophthalmological Society Meeting, December 2003.
89. Invited Speaker, Midwinter Retina Update. University of Wisconsin, Milwaukee, January 2004.
90. Combined Photodynamic Therapy with Intravitreal Triamcinolone for Juxtafoveal Choroidal Neovascularization. Macula Society, Las Vegas, February, 2004.

91. Visiting Professor, Washington University, St. Louis, March, 2004.
92. Visiting Surgeon and Lecturer. Frankfurt Retina Course. Frankfurt Germany, April 2004.
93. Combination of Intravitreal Triamcinolone and Photodynamic Therapy for Non-subfoveal Choroidal Neovascularization. ARVO, Ft. Lauderdale, FL, April 2004.
94. Case presentations. Midwest Ocular Angiography Conference, Grand Tetons, June 2004.
95. Invited Speaker. Advanced Vitreoretinal Course, San Antonio, September 2004.
96. Invited Speaker University of Chicago, September 2004.
97. Invited Speaker, Intravitreal Triamcinolone and Photodynamic Therapy, German Ophthalmologic Society, September 2004.
98. Invited Speaker. Intravitreal Triamcinolone and Photodynamic Therapy, Italian Ophthalmologic Society, November 2004.
99. Visiting Professor, University of Hawaii. January 2005.
100. Autofluorescence of Central Serous Chorioretinopathy. Macula Society, Key Biscayne, FL, February, 2005.
101. Invited Speaker, Brazilian Retina Society, Rio de Janeiro, Brazil, March 2005.
102. Invited Speaker, 5th Retinal Summit. Cole Eye Institute, Cleveland Clinic, Cleveland, Ohio, April 2005.
103. Invited Speaker. Vienna Ophthalmologic Society, June 2005
104. Invited Speaker. 1st Annual Wills Eye Hospital Research Institute Meeting. Lake Louise, Canada. July 2005.
105. Invited Speaker. Chicago OCT Course. Loyola University, Chicago, IL September 2005.
106. Fundus Autofluorescence, Retina Subspecialty Day, Chicago, IL Oct 2005.
107. Combined PDT/Intravitreal triamcinolone for choroidal neovascularization. Symposium at American Academy of Ophthalmology Annual Meeting, Chicago, IL. Also a poster and numerous courses, Oct 2005.
108. Visiting doctor. Aravind Eye Hospital, Madurai and Coimbatore, India. Numerous lectures, Grand Rounds, January, 2006.
109. Invited Speaker. Midwest Retina Update. Minneapolis, January 2006.
110. Intravitreal Avastin: The New York Experience. Angiogenesis Meeting, Miami, February 2006.
111. Intravitreal Avastin, Small Incision Vitrectomy Surgery, Fundus Autofluorescence, Invited Speaker, Squaw Valley Retina Meeting, February 2006.
112. Intravitreal Avastin for Choroidal Neovascularization, Macula Society Annual Meeting, San Diego, February 2006.
113. Intravitreal Avastin for Choroidal Neovascularization, Small Incision Vitrectomy Surgery, Fundus Autofluorescence, Invited Speaker, Ohio State University, March 2006.
114. Intravitreal Avastin, Small Incision Vitrectomy Surgery, Treatment of Cystoid Macular Edema, 59th Annual Wills Eye Hospital Alumni Meeting Speaker, Philadelphia, March 2006.
115. Photodynamic therapy and intravitreal triamcinolone. Innovations in ARMD Therapy 2006. Boston, MA April 8, 2006.
116. Visiting Professor, UC Davis, May 12, 2006.
117. Invited speaker, Vitreoretinal Symposium at Whistling Straits, September 2006.

118. Small Incision Vitrectomy Surgery Roundtable, Retina Subspecialty Day, American Academy of Ophthalmology Annual Meeting, Las Vegas, November 2006.
119. Courses and lectures. American Academy of Ophthalmology Annual Meeting, Las Vegas, November 2006.
120. Triamcinolone versus Avastin for Central Retinal Vein Occlusion, Intravitreal Ranibizumab for Choroidal Neovascularization Secondary to Age-Related Macular Degeneration. Hawaii 2007 Meeting.
121. Triamcinolone versus Avastin for Central Retinal Vein Occlusion, Intravitreal Ranibizumab for Choroidal Neovascularization Secondary to Age-Related Macular Degeneration, Why Does Yellow Material Accumulate Under the Retina? Squaw Valley Retina Meeting, Lake Tahoe, CA, February 2007.
122. Intravitreal Ranibizumab for Central Retinal Vein Occlusion. Angiogenesis 2007, Key Biscayne, Florida, February 2007.
123. Central Retinal Vein Case-Control Study. Macula Society Meeting, London, England, May 2007.
124. Treatment of Age-related Macular Degeneration. Oxford Retina Congress, Oxford, England, July 2007.
125. Fundus Autofluorescence. Keynote Speaker, Japanese Ocular Circulation Society Japan, July 2007.
126. Macugen, Avastin, and Lucentis. Retinaws meeting. Chicago, IL August 2007.
127. Fundus Autofluorescence. University of Tübingen, Tübingen, Germany, September 2007.
128. Macugen, Avastin, and Lucentis. AMD 2007. Baden-Baden September, 2007.
129. Visiting Professor University of Wisconsin, Madison September 2007.
130. Central Retinal Vein Occlusion, Retina Subspecialty Day, American Academy of Ophthalmology Annual Meeting, November, 2007
131. Visiting Professor University of Michigan, January 2008.
132. Invited Speaker, New Orleans Academy of Ophthalmology, February 2008.
133. Prix Soubrane de la Recherche en Ophthalmologie lecture, Paris, France, June, 2008.
134. Keynote lecture, Central Retinal Vein Occlusion, German Ophthalmologic Society, September 2008
135. Invited speaker, Squaw Valley Retinal Meeting February 2009.
136. Visiting Professor, Vanderbilt University, Nashville, TN February 2009.
137. Invited Speaker, Sarasota Retina Meeting, Sarasota, Florida March, 2009.
138. Visiting lecturer, Central Pacific Medical Center, San Francisco, CA April 2009.
139. Invited Speaker, The Royal College of Ophthalmologists, Birmingham, England May, 2009.
140. Invited speaker, French-American ophthalmology meeting, New York, NY June, 2009.
141. Invited speaker. Vitreoretinal Symposium at Lake Geneva. Medical College of Wisconsin, September 2009.
142. Imaging the Choroid. Retina Subspecialty Day. Multiple presentations. American Academy of Ophthalmology Annual Meeting. San Francisco, CA, 2009.
143. Subretinal Drusenoid Deposits. Macula Society, Tucson Arizona, 2010.
144. Multiple presentations, Squaw Valley Retina Meeting. Lake Tahoe, CA. 2010.

145. Guest of Honor. New England Ophthalmologic Society, Boston MA, June 2010.
146. Treatment of Myopic Choroidal Neovascularization (invited speaker) Fermo, Italy, September 2010.
147. Subretinal drusenoid deposits. Retina Society, San Francisco, CA September, 2010.
148. Imaging the Choroid with Optical Coherence Tomography. Washington DC October, 2010.
149. Invited Speaker. The Retinal Debates. Amsterdam Holland. December 2010.
150. Invited speaker and Ministry of Health Consultant. Singapore. January 2011.
151. Invited speaker. North American Neurophthalmology Society annual meeting, Vancouver, Canada, February 2011.
152. Invited speaker Squaw Valley Retina Meeting, Lake Tahoe, CA February 2011.
153. Invited speaker Spanish Vitreoretinal Society meeting, Madrid Spain, March 2011.
154. Choroidal Thickness and Myopia, presentation, Macula Society, Boca Raton FL, March 2011.
155. DII Retina Imaging/Photography Course, Grand Tetons, June 2011.
156. Imaging the Choroid. Retina Subspecialty Day. Multiple presentations. American Academy of Ophthalmology Annual Meeting. Orlando, FL October 2011.
157. Rich Lecture, University of Alabama, October 2011.
158. Kane Lecture Northwestern University, November 2011.
159. Invited Speaker, Portuguese Ophthalmologic Society, December 2011.
160. Invited Speaker, Squaw Valley Retina Meeting, February 2012.
161. Invited Speaker, 5th Annual Retina Symposium, UIC, Chicago, IL, March 2012.
162. Keynote talk, Optical Coherence Tomography of the Choroid in Inflammatory Disorders, Royal Congress of Ophthalmologists, Liverpool, England May 2012.
163. Keynote talk, Cole Eye Center, Cleveland Clinic, Cleveland Ohio 2012.
164. RPE loss in Neovascular Age-related Macular Degeneration, Macula Society Meeting, Jerusalem, June, 2012.
165. Schepens Lecture, Award of Merit in Retinal Research, The Retina Society, Washington, DC, 2012.
166. Fluorescein Conferences in Tokyo. (FCIT), a lecture series sponsored by Novartis, Oct 9 -14, 2012. Tokyo Japan.
167. Wallace-Evans Endowed Lecture, Oregon Health & Science University, Portland, Oregon, February, 2013.
168. Henkind Award Lecture, Macula Society Annual Meeting, Dana Point California, March 2013.
169. Knoblach Lectureship. University of Minnesota, March 2013.
170. 20th Anniversary of the Retina Center, invited speaker, Hawaii, April 2013.
171. Royal College of Ophthalmologists meeting, Courses and lectures. Liverpool England, May 2013.
172. Special Lecture. Japanese Society for Ocular Circulation. July 2013, Tokyo. Japan. (Also 2nd FCIT).
173. Seslen Lecture. Washington University, St. Louis, MO, September 2013.
174. Euretina Meeting. Invited lectures and a course. Hamburg, Germany, September, 2013.

175. 3rd FCIT, which was called Fluorescein Conference in Tokyo, except it was in New Orleans. November 2013.
176. Pigment Epithelial Detachments. Multimodal testing in AMD Patients. Invited speaker, Paris, France, March 2014.
177. Numerous presentations, World Ophthalmology Congress, Tokyo, Japan. April 2014.
178. Dynamic Focusing Windowed Averaging Swept Source Optical Coherence Tomography. ISIE Meeting, Outer Retinal Atrophy and Geographic Atrophy, ARVO meeting, Orlando Florida, May 2014.
179. Swept source OCT. OCT angiography of Mac Tel 2. Retina Subspecialty Meeting Chicago Oct, 2014.
180. Mystery Retina Course, Academy Café in Retina, AAO Annual Meeting, Chicago. Oct. 2014
181. Nataraja Pillai Oration Lecture, Agra India, December 2014.
182. W. Richard Green MD Award Lecture, Macula Society, Scottsdale AZ, Feb 2015.
183. George Theodossiadis Award Lecture, 8th Hippocratic Meeting, Thessaloniki, Greece, March 2015.

Other Recognition

Named as one of the best ophthalmologists in New York in the book *The Best Doctors New York Metro Area*, published by Castle Connolly Medical Ltd. in 1994 and again in all editions to the present. Listed in multiple editions of Who's Who of American Medicine, the Who's Who in America, and the Who's Who in Science and Technology. Listed in *New York Magazine's* Best Doctors in New York and *America's Best Doctors*.

Assistant Editor, Retina. Past Executive Editor, American Journal of Ophthalmology. Former member of the Editorial Board, Investigative Ophthalmology and Visual Science. Scientific reviewer for many peer-reviewed journals. Multiple US patents granted or pending.

Awards

Honor Award, American Academy of Ophthalmology, 1997
Richard and Linda Rosenthal Foundation Award in the Visual Sciences 2001
Honor Award, American Society of Retinal Surgeons, 2003
Senior Achievement Award, American Academy of Ophthalmology, 2005
Senior Honor Award, American Society of Retinal Surgeons, 2006
Prix Soubrane de la Recherche en Ophthalmologie, 2008
Award of Merit from the Retina Society, 2012
Henkind Award, Macula Society, 2013
Coscas Award Lecture 2014
Nataraja Pillai Award, 2014
W. Richard Green MD Award, 2015
George Theodossiadis Award, 2015
Life Achievement Honor Award, American Academy of Ophthalmology, 2015