

Curriculum Vitae - SUMMARY Page - Neil M. Bressler, M.D.

Title: The James P. Gills (inaugural) Professor of Ophthalmology – Johns Hopkins University School of Medicine; Past Chief (2005-2018), Retina Division – The Wilmer Eye Institute – Johns Hopkins Hospital

Peer-Reviewed Publications: 409

Major Research: Design and implement clinical trials evaluating retinal diseases.

- Previously, *Chair* and Principal Investigator of numerous multicenter randomized clinical trials including over 20 sponsored by the National Eye Institute of the National Institutes of Health and several by industry, including Chair of the Diabetic Retinopathy Clinical Research Network 2006 to 2012.
- Currently, *Past Network Chair* of the Diabetic Retinopathy Clinical Research Network (DRCR.net) since 2013, involving over 20 randomized clinical trials and observation studies with over 100 community-based and university-based and community-based sites, sponsored by the National Institutes of Health.

Educational Roles:

- Fellowship, residency, and medical student programs in retina at Johns Hopkins
- Director: Numerous annual Continuing Medical Education Courses at Hopkins

Administrative Role:

- Past Chief, Retina Division, Wilmer Eye Institute, Department of Ophthalmology, Johns Hopkins University School of Medicine (18 full-time retina physicians; additional basic science faculty; over 50 clinical staff; over 40 research staff) from 2005 to 2018
- Past Chair, Dean's Committee on Outside Interests (including management of financial conflicts of interest)
- Past Chair, School of Medicine Continuing Medical Education Advisory Board

Clinical Practice: National and international referral for retinal diseases

Current Editorial Boards: *JAMA Ophthalmology* (Editor-in-Chief); *The JAMA Network*

Current and Past Major National Advisory Roles:

- *Chair*, Data and Safety Monitoring Committee, National Eye Institute Intramural Program of NIH
- Ophthalmic Devices Panel of the Medical Devices Advisory Committee to the FDA (Past Chair, 2008)
- Observational Study Monitoring Board: Epidemiology of Diabetes Interventions & Complications (EDIC)
- Past President – Macula Society

Selected Honors:

- The Macula Society Rosenthal Award and Lecture
- The Society of Heed Fellows Award
- Inaugural Recipient of the Neil R. Miller Medical Student Teaching Award
- The Alvaro Rodriguez Gonzalez Lecture and Gold Medal
- National Society of Southern Dames Award
- The Macula Society J. Donald M. Gass Medal
- American Society of Retinal Specialists Honor Award
- Helen Keller Foundation Award and Lecture
- The Macula Society Research and Education Award
- American Academy of Ophthalmology Senior Achievement Award
- American Society of Retina Specialists Gertrude Pyron Award
- American Academy of Ophthalmology Secretariat Award
- 2009 Healthnetwork Foundation Service Excellence Awards
- Silver Fellow in the ARVO Fellows Class of 2009
- Gold Fellow in the ARVO Fellows Class of 2010
- Research to Prevent Blindness Senior Scientific Investigator Award 2011
- 2014 American Academy of Ophthalmology Life Achievement Honor Award
- 2017 Inaugural International Award and Lecture: Asia Pacific Vitreoretinal Society
- 2018 American Academy of Ophthalmology Secretariat Award

BIOGRAPHICAL INFORMATION

Born: New Jersey; USA

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EDUCATION

Undergraduate: University of Michigan, Ann Arbor, MI - Bachelor of Science - 1978

Medical School: The Johns Hopkins University School of Medicine, Baltimore, MD - 1982

Internship/Internal Medicine Fellowship: Johns Hopkins Hospital - Department of Medicine - 1982-1983

Ophthalmology Residency: Harvard Medical School and Massachusetts Eye and Ear Infirmary, Boston, MA - 1983-1986

Retinal Fellowship: Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, MD - 1986-1987

ACADEMIC APPOINTMENTS

July 1, 1987 – June 30, 1988: Harvard Medical School, Department of Ophthalmology, Instructor of Ophthalmology

July 1, 1988 – October 1991: Johns Hopkins University School of Medicine, Department of Ophthalmology, Assistant Professor of Ophthalmology

October 1991 – June 1997: Johns Hopkins University School of Medicine, Department of Ophthalmology, Associate Professor of Ophthalmology

July 1997 – Present: Johns Hopkins University School of Medicine, Department of Ophthalmology, Professor of Ophthalmology

April 2000 – Present: Johns Hopkins University School of Medicine, Department of Ophthalmology, The James P. Gills Professor of Ophthalmology (inaugural recipient)

PRIMARY HOSPITAL APPOINTMENTS

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July 1, 1987 – June 30, 1988: Massachusetts Eye and Ear Infirmary, Assistant in Ophthalmology

July 1, 1988 – October, 1991: Johns Hopkins Hospital, Assistant Professor of Ophthalmology

October 1991 – June 1997: Johns Hopkins Hospital, Department of Ophthalmology, Associate Professor of Ophthalmology

June 1997 – Present: Johns Hopkins Hospital, Department of Ophthalmology, Professor of Ophthalmology

BOARD CERTIFICATIONS

Ophthalmology - October 27, 1987

HONORS

1975-78: Class Honors - University of Michigan
1978: Angell Scholar - University of Michigan
1978: Bachelor of Science with High Distinction and Honors in Zoology
1978: Phi Beta Kappa
1982: Paul Ehrlich Award in Clinical Investigation - Johns Hopkins Medical School
1986: Heed Fellowship
1987: Heed/Knapp Fellowship
1993: American Academy of Ophthalmology Honor Award
1995: Research to Prevent Blindness Olga Keith Weiss Scholars Award
1997: The Macula Society Rosenthal Award and Lecture
1999: The Society of Heed Fellows Award
2000: Inaugural Recipient of the Neil R. Miller Medical Student Teaching Award
2000: Inaugural Recipient of the James P. Gills Professorship of Ophthalmology
2000: National Society of Southern Dames Award
2001: The Alvaro Rodriguez Gonzalez Lecture and Gold Medal
2001: Saudi Ophthalmology Society Medal
2003: The Macula Society J. Donald M. Gass Medal
2003: Neil R. Miller Medical Student Teaching Award
2003: American Society of Retinal Specialists Honor Award
2004: Helen Keller Foundation Award and Lecture
2004: The Macula Society Research and Education Award
2004: The American Academy of Ophthalmology's Senior Achievement Award
2008: The American Academy of Ophthalmology's Secretariat Award
2008: The American Society of Retina Specialists Gertrude Pyron Award
2008: American Academy of Ophthalmology Secretariat Award
2009: Healthnetwork Foundation Service Excellence Awards
2009: Silver Fellow in the ARVO Fellows Class of 2009
2010: Gold Fellow in the ARVO Fellows Class of 2010
2011: Research to Prevent Blindness Senior Scientific Investigator Award
2014: American Academy of Ophthalmology Life Achievement Honor Award
2017: Inaugural International Award and Lecture: Asia Pacific Vitreoretinal Society
2018: The American Academy of Ophthalmology's Secretariat Award

PATENTS

Neil Bressler, Owings Mills, MD US

Patent application number	Description	Published
20110242306	<u>SYSTEM AND METHOD FOR AUTOMATED DETECTION OF AGE RELATED MACULAR DEGENERATION AND OTHER RETINAL ABNORMALITIES</u> - A system and method for automated detection of age related macular degeneration and other retinal abnormalities which may have a retinal scanner capable of obtaining retinal data from a subject. The retinal scanner may be coupled to a central processing unit (CPU) which may have memory storing CPU-executable instructions which may detect retinal abnormalities. When the CPU receives retinal data from the retinal scanner, the system may perform CPU-executable instructions for detecting retinal abnormalities. The system may analyze the retinal data to determine one or more healthy areas and, based on the analyzed healthy area, the system may detect abnormalities in the retinal data.	10-06-2011

PEER-REVIEWED PUBLICATION

1. Bressler NM, Broekman MJ, Marcus AJ. Concurrent studies of oxygen consumption and aggregation in stimulated human platelets. *Blood* 1979;53:167-78.
2. Bressler SB, Bressler NM, Fine SL et al. Natural course of choroidal neovascular membranes within the foveal avascular zone in senile macular degeneration. *Am J Ophthalmol* 1982;93:157-63.
3. Fine SL, Bressler NM, Bressler SB, Murphy RP. Macular degeneration update 1983. *Trans Pac Coast Oto-Ophthalmol Soc* 1982;63:35-40.
4. Bressler SB, Bressler NM, Fine SL et al. Subfoveal neovascular membranes in senile macular degeneration: Relationship between membrane size and visual prognosis. *Retina* 1983;3:7-11.
5. Bressler NM, Gragoudas ES. Neovascularization of the optic disk associated with atypical retinitis pigmentosa. *Am J Ophthalmol* 1985;100:431-33.
6. Bressler NM, Gragoudas ES. Retinitis pigmentosa and retinal neovascularization. *Ophthalmology* 1987;94:895.

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7. Bressler NM, Bressler SB, Gragoudas EG. Clinical characteristics of choroidal neovascular membranes. *Arch Ophthalmol* 1987;105:209-13.
8. Bressler NM, Bressler SB, Fine SL. Age-related macular degeneration. *Surv Ophthalmol* 1988;32:375-413.
9. Bressler SB, Bressler NM, Seddon JS, et al. Interobserver and intraobserver reliability in the clinical classification of drusen. *Retina* 1988;8:102-08.
10. Bressler NM, Bressler SB, Seddon JS et al. Drusen characteristics in patients with exudative versus non-exudative age-related macular degeneration. *Retina* 1988;8:109-14.
11. Bressler NM, Frost L, Bressler SB, Fine SL. Natural course of poorly defined choroidal neovascularization in macular degeneration. *Arch Ophthalmol* 1988;106:1537-42.
12. Bressler NM, Bressler SB, West SK, Fine SL, Taylor HR. The grading and prevalence of macular degeneration in Chesapeake Bay watermen. *Arch Ophthalmol* 1989;107:847-52.
13. Sunness JS, Massof RW, Bressler NM, Bressler SB. Diminished foveal sensitivity may predict the development of advanced age-related macular degeneration. *Ophthalmology* 1989;96:375-81.
14. West S, Bressler NM, Bressler SB et al. Exposure to sunlight and other risk factors associated with age-related macular degeneration. *Arch Ophthalmol* 1989;107:875-79.
15. Sunness JS, Massof RW, Bressler NM, Bressler SB. S cone pathway sensitivity in eyes with high risk and low risk drusen characteristics. *Applied Optics* 1989;28:1158-64.
16. Chamberlin JA, Bressler NM, Bressler SB, et al. The use of fundus photographs and fluorescein angiograms in the identification and treatment of choroidal neovascularization in the Macular Photocoagulation Study. *Ophthalmology* 1989;96:1526-34.
17. Macular Photocoagulation Study Group (prepared by Maguire MG, Folk JC, Singerman LJ, Schachat AP, Blackhurst DW, Chamberlin JA, Bressler NM, Fine SL, Hawkins BS, Elman MJ). Persistent and recurrent neovascularization after krypton laser photocoagulation for neovascular lesions of ocular histoplasmosis. *Arch Ophthalmol* 1989;107:344-52.
18. Maguire MG, Folk JC, Singerman LJ, Schachat AP, Blackhurst DW, Chamberlin JA, Bressler NM, Fine SL, Hawkins BS, Elman MJ, Macular Photocoagulation Study Group. Response to Letter: Partial ablation of neovascular membranes involving the fovea. *Arch Ophthalmol* 1989;107:955-56.

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19. Macular Photocoagulation Study Group. Krypton laser photocoagulation for neovascular lesions of age-related macular degeneration: results of a randomized clinical trial. *Arch Ophthalmol* 1990;108:816-24.
20. Macular Photocoagulation Study Group. Krypton laser photocoagulation for idiopathic neovascular lesions: results of a randomized clinical trial. *Arch Ophthalmol* 1990;108:832-37.
21. Macular Photocoagulation Study Group (prepared by Maguire MG, Blackhurst DW, Alexander J, Bressler NM, Hawkins BS, Fine SL). Persistent and recurrent neovascularization after krypton laser photocoagulation for neovascular lesions of age-related macular degeneration. *Arch Ophthalmol* 1990;108:825-31.
22. Boldt C, Bressler NM, Fine SL, Bressler SB: Age-related macular degeneration. *Curr Opin Ophthalmol* 1990;1:277-257.
23. Bressler SB, Maguire MG, Bressler NM, Fine SL, Macular Photocoagulation Study Group: Relationship of drusen and abnormalities of the retinal pigment epithelium to the prognosis of neovascular macular degeneration. *Arch Ophthalmol* 1990;108:1442-47.
24. Bressler NM, Finkelstein D, Sunness J, et al. Retinal pigment epithelial tears through the fovea with preservation of good visual acuity. *Arch Ophthalmol* 1990;108:1694-97.
25. Taylor HR, Muñoz MS, West S, Bressler NB, Rosenthal FS, Bressler SB. Visible light and risk of age-related macular degeneration. *Tr Am Ophth Soc* 1990;88:163-78.
26. Bressler NM, Bressler SB, Alexander J, et al. Loculated fluid: A previously undescribed angiographic finding in macular degeneration. *Arch Ophthalmol* 1991;109:211-15.
27. Repka MX, Bressler NM, D'Anna S. Primate model of macular cysts. *Ophthalmology* 1991;98:535-40.
28. Kwiterovich KA, Fine SL, Maguire MG, Bressler NM, Bressler SB, Murphy RP. Frequency of adverse systemic reactions after fluorescein angiography: Results of a prospective study. *Ophthalmology* 1991;98:1139-42.
29. Macular Photocoagulation Study Group. Argon laser photocoagulation for neovascular maculopathy after five years: Results from randomized clinical trials. *Arch Ophthalmol* 1991;109:1109-14.
30. Macular Photocoagulation Study Group. Laser photocoagulation of subfoveal neovascular lesions in age-related macular degeneration. *Arch Ophthalmol* 1991;109:1219-31.
31. Macular Photocoagulation Study Group. Laser photocoagulation of subfoveal recurrent neovascular lesions in age-related macular degeneration. *Arch Ophthalmol* 1991;109:1232-41.

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32. Macular Photocoagulation Study Group (prepared by: Bressler NM, Alexander J, Bressler SB, et al). Subfoveal neovascular lesions in age-related macular degeneration: Guidelines for evaluation and treatment in the Macular Photocoagulation Study. *Arch Ophthalmol* 1991;109:1242-57.
33. Macular Photocoagulation Study Group (prepared by Fine SL, Hawkins BS, Maguire MG, Bressler NM, et al). Krypton laser photocoagulation for neovascular lesions of age-related macular degeneration. *Arch Ophthalmol* 1991;109:614-15.
34. Folk JC, Blackhurst DW, Alexander J, Elman MJ, Phillips DA, Macular Photocoagulation Study Group. Pretreatment fundus characteristics as predictors of recurrent choroidal neovascularization. *Arch Ophthalmol* 1991;109:1193-94.
35. Taylor HR, West S, Munoz B, Rosenthal FS, Bressler SB, Bressler NM. The long-term effects of visible light on the eye. *Arch Ophthalmol* 1992;110:99-106.
36. Bressler SB, Silva JC, Bressler NM, Alexander JA, Green WR. Clinicopathologic correlation of occult choroidal neovascularization in age-related macular degeneration. *Arch Ophthalmol* 1992;110:827-32.
37. Lim JI, Bressler NM. Atypical parafoveal telangiectasis with subsequent anterior and posterior segment neovascularization. *Retina* 1992;12:351-54.
38. Lim JI, Bressler NM, Marsh MJ, Bressler SB. Laser treatment of choroidal neovascularization in patients with angioid streaks. *Am J Ophthalmol* 1993;116:414-23.
39. Fine SL, Wood WJ, Isernhagen RD, Singerman LF, Bressler NM, Folk JC, Kimura AE, Fish GE, Maguire MG, Alexander J. Laser treatment for subfoveal neovascular membranes in ocular histoplasmosis syndrome: Results of a pilot randomized clinical trial. *Arch Ophthalmol* 1993;111:19-20.
40. Bressler NM, Alexander J, Hawkins BS, Maguire MG, Fine SL, for the Macular Photocoagulation Study Group. Response to letter: Subfoveal neovascular lesions in age-related macular degeneration. *Arch Ophthalmol* 1993;111:901.
41. Macular Photocoagulation Study Group (prepared by Burgess DB, Hawkins BS, Jefferys JL, Bressler NM, et al). Five-year follow-up of fellow eyes of patients with age-related macular degeneration and unilateral extrafoveal choroidal neovascularization. *Arch Ophthalmol* 1993;111:1189-99.
42. Custis PH, Bressler SB, Bressler NM: Laser management of subfoveal choroidal neovascularization. *Curr Opin Ophthalmol* 1993;4:7-18.
43. Macular Photocoagulation Study Group. Laser photocoagulation of subfoveal neovascular lesions of age-related macular degeneration: Updated findings from two clinical trials. *Arch Ophthalmol* 1993;111:1200-09.

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44. West S, Vitale S, Hallfrisch J, Munoz B, Muller D, Bressler SB, Bressler NM. Are antioxidants or supplements protective for age-related macular degeneration? *Arch Ophthalmol* 1994;112:222-27.
45. Macular Photocoagulation Study Group. Laser photocoagulation of juxtafoveal choroidal neovascularization: Five-year results from randomized clinical trials. *Arch Ophthalmol* 1994;111:500-09.
46. MacCumber MW, Dastgheib K, Bressler NM, Chan C, Harris M, Fine S, Green WR. Clinicopathologic correlation of the multiple recurrent serosanguineous retinal pigment epithelial detachments syndrome. *Retina* 1994;14:143-52.
47. Schein OD, West S, Munoz B, Vitale S, Maguire MG, Taylor HR, Bressler NM. Cortical lenticular opacification: distribution and location in a longitudinal study. *Invest Ophthalmol Vis Sci* 1994;35:363-66.
48. Edwards MG, Schachat AP, Bressler SB, Bressler NM. Outcome of cataract surgery performed to permit diagnosis, determine eligibility for laser therapy, or perform laser therapy of retinal disorders. *Am J Ophthalmol* 1994;118:440-44.
49. Macular Photocoagulation Study Group (prepared by Maguire MG, Klein ML, Oik RJ, Phillips DA, Alexander J, Javornik NB, Hiner C, Marsh MJ, Bressler NM et al). Persistent and recurrent choroidal neovascularization after laser photocoagulation for subfoveal choroidal neovascularization of age-related macular degeneration. *Arch Ophthalmol* 1994;112:489-99.
50. Pieramici DJ, Bressler NM, Bressler SB, Schachat AP. Choroidal neovascularization in black patients. *Arch Ophthalmol* 1994;112:1043-46.
51. Bressler SB, Jefferys JL, Bressler NM, Alexander J, et al, for the Macular Photocoagulation Study Group. Evaluation of green versus red laser for photocoagulation of subfoveal choroidal neovascularization in the Macular Photocoagulation Study. *Arch Ophthalmol* 1994;112:1176-84.
52. Maguire MG, Fine SL, Folk JC, Bressler NM et al for the Macular Photocoagulation Study Group. Visual outcome after laser photocoagulation for subfoveal choroidal neovascularization secondary to age-related macular degeneration: The influence of initial lesion size and initial visual acuity. *Arch Ophthalmol* 1994;112:480-88.
53. West SK, Bressler SB, Bressler NM, Vitale S. Are antioxidants or supplements protective for age-related macular degeneration? In reply to letter: *Arch Ophthalmol* 1994;112:730.
54. Bressler NM, Silva JC, Bressler SB, Fine SL, Green WR. Clinicopathologic correlation of drusen and retinal pigment epithelial abnormalities in age-related macular degeneration. *Retina* 1994;14:130-42.

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55. Dyer DS, Bressler SB, Bressler NM. The role of laser wavelength in the treatment of vitreoretinal diseases. *Curr Opin Ophthalmol* 1994;5:35-43.
56. Sykes SO, Bressler NM, Maguire MG, Schachat AP, Bressler SB. Detecting recurrent choroidal neovascularization: comparison of clinical examination with and without fluorescein angiography. *Arch Ophthalmol* 1994;111:1561-66.
57. Macular Photocoagulation Study Group (prepared by Marsh MJ, Fine SL, Alexander J, Schachat AP, Maguire MG, Bressler NM, et al). Laser photocoagulation for neovascular lesions nasal to the fovea associated with ocular histoplasmosis or idiopathic causes. *Arch Ophthalmol* 1995;113:56-61.
58. Maguire MG, Fine SL, Folk JC, Bressler NM, et al. Treatment of subfoveal choroidal neovascularization: In reply to letter. *Arch Ophthalmol* 1995;113:138.
59. Macular Photocoagulation Study Group (prepared by Maguire MG, Alexander J, Bressler NM, Schachat AP). The influence of treatment coverage on the visual acuity of eyes treated with krypton laser for juxtafoveal choroidal neovascularization. *Arch Ophthalmol* 1995;113:190-94.
60. Bird AC, Bressler NM, Bressler SB, Chisholm IH, Coscas G, et al. An international classification and grading system for age-related maculopathy and age-related macular degeneration. *Surv Ophthalmol* 1995;39:367-74.
61. Sunness JS, Bressler NM, Maguire MG. Scanning laser ophthalmoscopic analysis of the pattern of visual loss in age-related geographic atrophy of the macula. *Am J Ophthalmol* 1995;119:143-51.
62. West S, Munoz B, Schein O, Vitale S, Maguire M, Taylor H, Bressler NM. Cigarette smoking and risk for progression of nuclear opacities. *Arch Ophthalmol* 1995;113:1377-80.
63. Bressler NM, Munoz B, Maguire MG, Vitale S, Schein OD, Taylor HR, West S. Five-year incidence and disappearance of drusen and retinal pigment epithelial abnormalities. *Arch Ophthalmol* 1995;113:301-08.
64. Friberg TR, Braunstein RA, Bressler NM, Munson, RS. Sudden visual loss associated with sexual activity. *Arch Ophthalmol* 1995;113:738-742.
65. Bressler NM, Bressler SB. Preventative ophthalmology: Age-related macular degeneration. *Ophthalmology* 1995;102:1206-11.
66. Zimmer-Galler IE, Bressler NM, Bressler SB. Treatment of choroidal neovascularization: updated information from recent Macular Photocoagulation Study Group reports. *Int Ophthalmol Clin* 1995;35:37-57.

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67. Dyer DS, Brant AM, Schachat AP, Bressler SB, Bressler NM. Angiographic features and outcome of questionable recurrent choroidal neovascularization. *Am J Ophthalmol* 1995;120:497-505.
68. Bressler NM. Submacular surgery: Are randomized trials necessary? *Arch Ophthalmol* 1995;113:1557-60.
69. Macular Photocoagulation Study Group (prepared by Wilkinson CP, Hawkins, BS, Javornik NB, Newhouse MM, Keller JA, Bressler NM, et al). Five-year follow-up of fellow eyes of individuals with ocular histoplasmosis and unilateral extrafoveal or juxtafoveal choroidal neovascularization. *Arch Ophthalmol* 1996;114:677-88.
70. Macular Photocoagulation Study Group (prepared by Bressler NM, Marsh MJ, Maguire MG, Alexander J, Phillips DA, et al). Occult choroidal neovascularization: Influence on visual outcome in patients with age-related macular degeneration. *Arch Ophthalmol* 1996;114:400-12.
71. Bressler NM, Bressler SB. Indocyanine green angiography: can it help preserve the vision of our patients? *Arch Ophthalmol* 1996;114:747-49.
72. Jabs DA, Dunn JP, Enger C, Forman M, Bressler NM, Charache P. Cytomegalovirus retinitis and viral resistance: Prevalence of resistance at diagnosis. *Arch Ophthalmol* 1996;114:809-14.
73. Bressler NM, O'Brien TP. Meeting report of the Hawaii '96 meeting. *Arch Ophthalmol* 1996;114:894.
74. Avery RL, Fekrat S, Hawkins BS, Bressler NM. Natural history of subfoveal subretinal hemorrhage in age-related macular degeneration. *Retina* 1996;16:183-89.
75. Kiri A, Dyer DS, Bressler NM, Bressler SB, Schachat AP. Detection of diabetic macular edema: Nidek 3Dx stereophotography compared with fundus biomicroscopy. *Am J Ophthalmol* 1996;122:654-62.
76. Bressler NM, Maguire MG, Murphy, PL, Alexander J, Margherio R, Schachat AP, Fine SL, Stevens TS, Bressler SB. Macular scatter ("grid") laser treatment of poorly demarcated subfoveal choroidal neovascularization in age-related macular degeneration: Results of a randomized pilot trial. *Arch Ophthalmol* 1996;114:1456-64.
77. Levin L, Bressler NM. The case report: when small is beautiful. *Arch Ophthalmol* 1996;114:1413.
78. Enger C, Jabs DA, Dunn JP, Forman MS, Bressler NM, Margolick JB, Charache P, and the CRVR Research Group. Viral resistance and cytomegalovirus retinitis: design and methods of a prospective study. *Ophthalmic Epidemiol* 1997;4:41-48.

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CURRICULUM VITAE – December 28, 2018

79. Stevens TS, Bressler NM, Maguire MG, Bressler SB, Fine SL, Alexander J, Phillips DA, Margherio RR, Murphy PL, Schachat AP. Occult choroidal neovascularization in age-related macular degeneration: A natural history of morphologic changes. *Arch Ophthalmol* 1997;115:345-50.
80. Macular Photocoagulation Study Group (prepared by Maguire MG, Bressler SB, Bressler NM, Marsh MJ, Alexander J, Phillips DA, et al). Risk factors for choroidal neovascularization in the second eye of patients with juxtafoveal or subfoveal choroidal neovascularization secondary to age-related macular degeneration. *Arch Ophthalmol* 1997;115:741-47.
81. Pharmacological Therapy for Macular Degeneration Study Group (prepared by Guyer DR, Adamis AP, Yannuzzi LA, Gragoudas ES, Coscas GJ, Brancato R, Bird AC, Soubrane G, Miller J, Bressler NM, Slakter JS, DeRosa J). Interferon Alfa-2a is ineffective for patients with choroidal neovascularization secondary to age-related macular degeneration: Results of a prospective randomized placebo-controlled clinical trial. *Arch Ophthalmol* 1997;115:865-782.
82. Bressler NM. Submacular surgery: New information; more questions. *Arch Ophthalmol* 1997;115:1071-72.
83. Sunness JS, Rubin GS, Applegate CA, Bressler NM, Marsh MJ, Hawkins BS, Haselwood D. Visual function abnormalities and prognosis in eyes with age-related geographic atrophy of the macula and good visual acuity. *Ophthalmology* 1997;104:1677-91.
84. Sunness JS, Rubin GS, Applegate CA, Haselwood D, Marsh MJ, Bressler NM. Visual function and reading rate in eyes with age-related geographic atrophy of the macula and good visual acuity. *Arch Ophthalmol* 1997;104:1677-91.
85. Loewenstein A, Sunness JS, Bressler NM, Marsh MJ, de Juan E Jr. Scanning laser ophthalmoscope fundus perimetry after surgery for choroidal neovascularization. *Am J Ophthalmol* 1998;125:657-65.
86. deJuan E Jr, Loewenstein A, Bressler NM, Alexander J. Translocation of the retina for management of subfoveal choroidal neovascularization II: A preliminary report in humans. *Am J Ophthalmol* 1998;125:635-46.
87. Schmidt-Erfurth U, Miller JW, Sickenberg M, Bunse A, Laqua H, Gragoudas E, Zografos L, Birngruber R, van den Bergh H, Strong A, Manjuris U, Fsadni M, Lane AM, Piguet B, Bressler NM. Photodynamic therapy of subfoveal choroidal neovascularization: Clinical and angiographic examples. *Graefe's Arch Clin Exp Ophthalmol* 1998;236:365-74.
88. Bressler NM. Evaluating new imaging techniques in retina. *Arch Ophthalmol* 1998;116: 521-22.

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89. Jabs DA, Enger C, Dunn JP, Forman M, Bressler NM for the CMV Retinitis and Viral Resistance Study Group. Cytomegalovirus retinitis and viral resistance: Ganciclovir resistance. *J Infect Dis* 1998;177:770-73.
90. Rosberger DF, Schachat AP, Bressler SB, Bressler NM. Availability of color fundus photographs from previous visit affects practice patterns for patients with diabetes mellitus. *Arch Ophthalmol* 1998;116:1607-10.
91. Bressler NM. Reviewers, authors, editors: balance of power. *Arch Ophthalmol* 1999;117:524-26.
92. Cheeseman EW Jr, Bressler NM, Hunter DG. Familial exudative vitreoretinopathy associated with monocular axial myopia. *Retina* 1999;19:257-59.
93. Raja SC, Jabs DA, Dunn JP, Fekrat S, Machan CH, Marsh MJ, Bressler NM. Pars planitis: clinical features and class II HLA associations. *Ophthalmology* 1999;106:594-99.
94. Sunness JS, Bressler NM, Tian Y, Alexander J, Applegate C. Measuring geographic atrophy in advanced age-related macular degeneration. *Invest Ophthalmol Vis Sci* 1999;40:1761-69.
95. Sunness JS, Gonzalez-Baron J, Bressler NM, Hawkins BS, Applegate CA. The development of choroidal neovascularization in eyes with the geographic atrophy form of age-related macular degeneration. *Ophthalmology* 1999;106:910-19.
96. Weisz JM, Bressler NM, Bressler SB, Schachat AP. Ketorolac treatment of pseudophakic cystoid macular edema identified more than 24 months after cataract extraction. *Ophthalmology* 1999;106:1656-59.
97. Bressler NM. In Reply to Letter to the Editor by Freeman, Bartsch, Mueller, and Banker. *Arch Ophthalmol* 1999;117:847.
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TEXTBOOKS

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23. Bressler NM, Gragoudas ES, Bressler SB: Age-related macular degeneration, Part 2: RPE Detachment and Subretinal neovascularization. In Principles and Practice of Ophthalmology, 2nd Edition. Eds Albert DM, Jakobiec FA, WB Saunders Co, 1999.
24. Bressler NM, Bressler SB, Fine SL: Neovascular (exudative) age-related macular degeneration. In Medical and Surgical Retina: Advances, Controversies and

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Management (Third Edition). Eds Ryan S, Schachat AP. St Louis: Mosby Year Book, 2000.

25. Weisz JM, Bressler NM, Bressler SB: Choroidal neovascularization: Laser treatment. In Macular Surgery. Eds Quiroz-Mercado H, Liggett P, Alfaro V, de Juan E, Tano Y. Lippincott, Williams & Wilkins, July 2000.
26. Do DV, Bressler SB, Bressler NB: Pathologic myopia and choroidal neovascularization. In Myopia. Eds. B.G. Bietti Foundation's Sixth International Congress. 2004.

FEDERALLY-SUPPORTED (National Institutes of Health) RESEARCH GRANTS

CURRENTLY ACTIVE NIH SUPPORT:

COMPLETED NIH SUPPORT:

1. U10EY023207 (Bressler) 02/01/14 – 12/31/18 up to 1.24 calendar
National Eye Institute via subcontract from Northwestern University
Diabetic Retinopathy Clinical Research Network
Purpose: Assist the DRCR Network Chair in all of the responsibilities of the Network Chair; continue to serve on Executive Committee, the Operations Group, most protocol development and primary outcome manuscript committees, the Scientific Advisory Committee, and other committees as deemed necessary by the Operations Group, the Executive Committee, the Coordinating Center, or the Network Chair. Continue to back-up the Network Chair regarding interactions with regulatory agencies such as the FDA and CMS, industry collaborations, the NIDDK, the NEI, and Foundations such as the Juvenile Diabetes Research Foundation.
2. Diabetic Retinopathy Clinical Research Network: Network Chair's Office.
NIH Grant
Network Chair Elect (2005); Network Chair 2006 – 2012; 40% effort
Project Period: 01/01/05 – 12/31/13
Purpose: To serve as Chair of a network of clinical studies on diabetic retinopathy within a network of clinical centers, serving as Principal Investigator of the Network Chair's Office. See www.drcr.net for complete public information.
3. Submacular Surgery Trials: Study Chairman's Office Grant
NIH Grant - 1 U10 EY11547-01
Principal Investigator (*and Study Chairman*) – Up to 20% effort and support
Project Period: 9/30/96 - 4/30/05
Purpose: Multicenter randomized clinical trials designed to determine if submacular surgery can reduce the risk of visual loss in patients with choroidal neovascularization due to age-related macular degeneration (the leading cause of severe visual loss in

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people over 65 in the United States and Western World), the ocular histoplasmosis syndrome or idiopathic causes.

4. Submacular Surgery Trials (SST) Pathology Center
NIH Grant -1 U10 EY 12662-01
Consultant – 2% effort
Project Period: 8/99 - 7/05
Purpose: To evaluate the clinicopathologic correlations of choroidal neovascularization structure and biochemistry from patients in comparison to their pre-surgery vision data, color fundus photographs, fluorescein angiograms, and visual outcomes. Additionally, post-mortem examination of eyes from patients enrolled in the SST will enable correlation of tissue changes in both operated and unoperated eyes with clinical data.
5. Age-Related Geographic Atrophy
NIH Grant -2 R01 EY0D08522-06A1
Co-Principal Investigator - 5% effort and support
Project Period: 9/30/98-9/29/00
Purpose: To determine natural history of patients with geographic atrophy from age-related macular degeneration to determine risk factors for visual loss and potential patient groups for interventional trials.
6. Application of Non Invasive Retinal Thickness
NIH Grant - R01 EY06976-08A1
Co-Principal Investigator - 5% effort and support
Project Period: 7/1/94-7/1/99
Purpose: Study the relationship between retinal thickness, measured by a novel optical technique, and the natural history and effect of laser treatment on diabetic macular edema.
7. Effect of Cataract & Age-Related Maculopathy on Vision
NIH Grant - R01 EY06380-09
Co-Investigator - 4% effort and support
Project Period: 1/1/95-3/31/99
Purpose: Develop a set of tools that will allow one to determine the potential benefits of cataract surgery in patients with age-related macular degeneration.
8. CMV Retinitis and Viral Drug Resistance
NIH Grant - 1R01 EY05952
Co-Investigator - 9% effort and support
Project Period: 7/1/93-6/30/98
Purpose: Epidemiologic study to determine the incidence and prevalence of resistant cytomegalovirus (CMV) in patients treated for CMV retinitis, as well as risk factors for its development.
9. Geographic Atrophy Study
NIH Grant - EY08552-01

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Co-Investigator - 4% effort and support
Project Period: 03/01/92-02/28/97
Purpose: 5-Year natural history study of progressive loss of central vision due to geographic atrophy.

10. Submacular Surgery Trials Planning Grant
NIH Grant - R21 EY10823-01
Principal Investigator (*Study Chairman*) - 10% effort
Project Period: 1/1/95 - 3/31/96
Purpose: To obtain support for activities required to plan and organize a multicenter study evaluating the role of submacular surgery in age-related macular degeneration and the ocular histoplasmosis syndrome.

11. Macular Photocoagulation Study Reading Center
NIH Grant - EY05958-09
Principal Investigator - 20% effort and support
Project Period: 9/30/85 - 3/31/95
Purpose: Evaluate fundus photographs and angiograms of all participants in the Macular Photocoagulation Study; collaborate with Coordinating Center.

12. Macular Photocoagulation Study:
NIH Grant EY02556-12
Principal Investigator - 5% effort and support
Project Period: 1/1/79 - 12/31/93
Purpose: Direct the clinical center at Wilmer randomizing patients to laser treatment or no treatment in the Macular Photocoagulation Study.

13. Follow-up Study of Eye Disease in a Cohort of Chesapeake Bay Watermen
NIH Grant EY08776-01
Co-investigator - 10% effort and support
Project Period: 07/01/90 - 12/30/92
Purpose: Longitudinal evaluation of cataract and macular degeneration in a population-based study.

OTHER SUPPORT

Note: Total effort is never 100%; several institutional service agreements have a maximum allowed amount, but might be utilized anywhere from 0% to that total amount in a given month.

ACTIVE

No Identifier (Bressler) Novartis Pharma AG <i>Institutional Service Agreement</i>	1/011/03 - 06/30/19 up to 1.94 calendar
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Purpose: To serve, on behalf of the Johns Hopkins University School of Medicine, as a researcher in the design and implementation and interpretation of clinical research in the management of retinal diseases.

N01EY12113 (Bressler) 10/01/04 - 06/30/19 up to .12 calendar
Subcontract: Emmes Corp.
NIH/NEI
*NEI Data and Safety Monitoring
Committee—Chair*

Purpose: To chair Data and Safety Monitoring Committee for human subjects trials directed by the National Eye Institute intramural program.

No Identifier (Bressler) 01/01/06 –06/30/2016 up to .30 calendar
Regeneron Pharmaceuticals Inc. (RPI)
Institutional Service Agreement

Purpose: To serve, on behalf of the Johns Hopkins University School of Medicine, as a researcher in the design and implementation and interpretation of clinical research in the management of retinal diseases.

No Identifier (Bressler) 07/01/12 – 06/30/19 up to .52 calendar
Bayer
Institutional Service Agreement

Purpose: To serve, on behalf of the Johns Hopkins University School of Medicine, as a researcher in the design and implementation and interpretation of clinical research in the management of retinal diseases.

No Identifier (Bressler) 01/01/09 - 06/30/2019 up to 3.33 calendar
Genentech, Inc.
Institutional Service Agreement

Purpose: To serve, on behalf of the Johns Hopkins University School of Medicine, as a researcher in the design and implementation of clinical research in the management of retinal diseases, with specific reference to quality of life outcomes as well as treatment of geographic atrophy in age-related macular degeneration.

No Identifier (Bressler) 08/11/2014 – 06/30/2017 up to .48 calendar
Lumenis, Inc.
Institutional Service Agreement

Purpose: To serve, on behalf of the Johns Hopkins University School of Medicine, as a researcher in the design and implementation and interpretation of clinical research in the management of retinal diseases.

OVERLAP

None

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EDITORIAL ROLES

Editor-in-Chief *JAMA Ophthalmology* 2013 to present
Editorial Board *The JAMA Network Editorial Board* 2013 to present

Completed Editorial Boards:

- 1991-1994: Section Editor (Reviews in Medicine), *Survey of Ophthalmology*
- 1995-2000: *The Wilmer Retina Update*, Editor-in-Chief (and Founding Editor)
- 1994-2013: Editorial Board: *JAMA Ophthalmology* (formerly *Archives of Ophthalmology* until December 2012, and Past Editor of *Controversies Section*)
- 1995-2013: Editorial Board: RETINA
- 2012-2013: Editorial Board: RETINA Cases and Brief Reports

NATIONAL ADVISORY ROLES

Current

- Ophthalmic Devices Panel of the Medical Devices Advisory Committee for the Center for Devices and Radiologic Health, Food and Drug Administration: 2000 – 2018 (Chair: 2008 - 2010)
- Chair, Data and Safety Monitoring Committee, National Eye Institute Intramural Program of National Institutes of Health: 2003 – 2018
- EDIC Observational Study Monitoring Board (OSMB) for the Epidemiology of Diabetes Interventions and Complications (EDIC) study: 2011 – 2018

Past

- **Scientific Advisor:** NEI Research for Macular Degeneration: February 1990 - December 1990.
- **Consultant** - American Academy of Ophthalmology Preferred Practice Pattern for Macular Degeneration – 1990 to 1994
- **Ad Hoc Reviewer** - National Eye Institute - Study Sections – 1993 to present
- **Editor** - Basic and Clinical Science Course - Retina Section - American Academy of Ophthalmology - 1994-1998
- **Scientific Advisory Council: The Macula Foundation, Inc.**- 2002 – present
- **Scientific Advisor** - American Federation of Aging Research - 1992-1997
- **National Eye Institute (NEI) Special Emphasis Panel Review Committee** – member: 1997, 1998, 2001, 2003
- **U.S. Pharmacopeia Expert Committee** - Member, 2000 – 2005, 2005-2010
- **Carotene in Age-Related Eye Disease Study (CAREDS) Scientific Advisory Board** for National Eye Institute – 2002 – 2010
- **SCORE Advisory Group Member** – National Eye Institute: 2003 – 2008
- **Member, Data and Safety Monitoring Committee, National Eye Institute Intramural Program of National Institutes of Health** – 2002

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- **Testimony before U.S. House of Representatives subcommittees, Senate subcommittees**, as well as staffers for U.S. House or U.S. Senate – various years from 2008 through 2014

PROFESSIONAL SOCIETIES AND SERVICE TO PROFESSIONAL SOCIETIES

- 1981-2014 **Association for Research in Vision and Ophthalmology**
1995-1998 Program Committee (Chairman of Program Committee in 1998)
1998-2002 Exhibits Committee (Chairman 2002)
- 1987-2014 **American Medical Association**
- 1987-2014 **American Academy of Ophthalmology**
1994-1997 Editor, Basic and Clinical Science Course: *Retina Section*
1990-2004 Consultant, Preferred Practice Patterns
2003-2005 Committee on Aging
- 1990-2005 **Macula Society**
1996-2002 Member, *Executive Committee*
1996-2002 Chairman, *Program Committee*
1994-1997 Member, *Research Committee*
2008-2012 Macula Society Representative to American Academy of Ophthalmology Council
2011-2012 Officer, Secretary
2012-2013 Officer, President-elect
2013-2014 Officer, President
2014-2015 Office, Past President
- 1993-2014 **Retina Society**
- 1997-2014 **Society for Clinical Trials**
1998-2002 Member, *Development Committee*
- 1998-2014 **Club Jules Gonin**
- 1998-2014 **American Society of Retina Specialists**
2005 Chair, *Ad hoc* Leadership Committee
2012 Co-chair, Vision 20/20
2012 Founding editor: Retina Image Bank

CLINICAL ACTIVITIES

National and international referral practice specializing in the management of medical retinal disease (e.g., diabetic retinopathy, age-related macular degeneration, retinal vein occlusions),

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with specific reference to treatments for these conditions as well as designing and directing clinical trials evaluating new managements of these diseases.

ADMINISTRATIVE RESPONSIBILITIES

UNIVERSITY SCHOOL OF MEDICINE ACTIVITIES

- Associate Professor Promotions Committee (1994 - 1998)
- Chair, Dean's Committee on Outside Interests (2002 – present; Chair since 2006)
- Chair, Continuing Medical Education Advisory Board (2014 – 2015)

DEPARTMENTAL ACTIVITIES

- Clinical Practice Advisory Committee (1989 - present)
- Chair, Subcommittee on Electronic Patient Record for Wilmer Institute. (1995 -1997)
- Resident Education Committee: Serve in an advisory role to the Chief Resident to identify educational needs of the residency program, including the core curriculum. (1993 -1997)
- Chair, Wilmer Imaging Committee (2001- 2003)

DIVISIONAL ACTIVITIES

- **Chief, Retina Division (2005-2018):** One of the largest university-based retina divisions in the world with 18 full-time clinical faculty (6 assistant professors, 4 associate professors, 8 professors including 7 endowed professorships among the 17 faculty) with additional basic science faculty reporting to the clinical faculty with over 40,000 visits at Johns Hopkins Hospital and 5 satellite locations
- Head of Retinal Fellowship Program (1989 to 2007).
- Participation in training of over 100 residents and 65 retina fellows and numerous additional medical students and clinical research fellows.

OTHER OUTSIDE ACTIVITIES

Board of Trustees, Interlochen Center for the Arts, Interlochen, Michigan – 2007 to 2015.
Vice-Chair: 2013 – 2015