

## **CURRICULUM VITAE**

**GERALD ALLEN FISHMAN, M.D.**

Date of Birth: January 20, 1943

Place of Birth: Cleveland, Ohio

Marital Status: Married

Citizenship: U.S.A.

Present Title:

Professor of Ophthalmology, and  
Director of the Electrophysiology Laboratory,  
Department of Ophthalmology,  
UIC Eye Center,  
Chicago, Illinois.

Education:

University:

B.A., 1961-1965,  
Western Reserve University,  
Cleveland, Ohio,  
Major: Chemistry

Medical School:

M.D., 1965-1969,  
Ohio State University School of Medicine,  
Columbus, Ohio

Postdoctoral Training:

Internship: 1969-1970  
Mt. Sinai Hospital,  
Cleveland, Ohio.

Residency:

1970-1973,  
University of Illinois Eye and Ear Infirmary,  
Chicago, Illinois

Fellowship:

1973-1974,

Ocular Pathology with Dr. David Apple  
University of Illinois Eye and Ear Infirmary  
Funded by the National Institutes of Health

Appointments:

1974-1977

Assistant Professor of Ophthalmology  
University of Illinois Eye and Ear Infirmary

1977-1983

Associate Professor of Ophthalmology,  
University of Illinois Eye and Ear Infirmary

1983-Present

Professor of Ophthalmology  
University of Illinois Eye and Ear Infirmary

1978-Present

Appointment to Faculty of Bioengineering  
University of Illinois, Chicago, Illinois

Certification: 1975 American Board of Ophthalmology

Licensure: Licensed in the State of Illinois

Professional and Honorary Societies:

- American Academy of Ophthalmology
- Association for Research in Vision and Ophthalmology
- International Society for Clinical Electrophysiology of Vision
- Macula Society
- Fluorescein Angiography Club
- American Society of Human Genetics

Board Memberships:

- Blind Service Association of Chicago - May, 1982 - present
- Chairman, scientific advisory board, Chicago Chapter of the National Foundation Fighting Blindness, 1985 - present.
- Scientific Advisory Board, Foundation Fighting Blindness, October, 1989 - present.

Thesis Advisor:

Paul Sieving: Ph.D. thesis awarded 1981  
Early Receptor Potential Measurements in Human Disease.

Chandra Rednam: Masters thesis awarded, March, 1982  
Use of Chromatic Stimulation in Psychophysical  
Tests to Evaluate Rod and Cone Function.

Consultant: Chicago Lighthouse for the Blind, 1976 to present

Lecturer:

Loyola University School of Medicine,  
Department of Ophthalmology, 1978 to 1991

University of Illinois Eye and Ear Infirmary:

- a. Medical Student Lecture Series, 1980 to present
- b. Ophthalmic Resident Lecture Series 1974 to present

Instructor:

American Academy of Ophthalmology,  
Annual Course on Hereditary, Vascular, and Inflammatory Retinal Diseases  
1979 to 1986

## PRESENTATIONS

### GERALD ALLEN FISHMAN, M.D.

1. Association for Research in Vision and Ophthalmology, Sarasota, Florida, 1972.
  - a. *Electro-oculography Findings in Placoid Pigment Epitheliopathy*
  - b. *Acquired Color Vision Defects in Patients with Glaucoma and Ocular Hypertension*
2. International Council on Acquired Color Vision Defects, Edinburgh, Scotland.  
*Acquired Color Vision Defects in Patients with Glaucoma and Ocular Hypertension*
3. American Medical Association, Chicago, Illinois, 1974.  
*Hereditary Night Blindness*
4. Association for Research in Vision and Ophthalmology, Sarasota, Florida, 1974  
*Electro-oculogram Findings in Diffuse Drusen of Bruch's membrane*
5. American Academy of Ophthalmology and Otolaryngology, Dallas, Texas, 1975  
*Progressive Human Cone-rod Dysfunction*
6. Symposium on Intraocular Tumors, University of Illinois Eye and Ear Infirmary, Chicago, Illinois, 1975.  
*Fluorescein Angiography in Retinal and Choroidal Tumors*
7. Course in Vitrectomy, University of Illinois Eye and Ear Infirmary, Chicago, Illinois, 1975.  
*The ERG in the Pre-operative Evaluations of Patients Scheduled for Vitrectomy*
8. Workshop sponsored by the National Retinitis Pigmentosa Foundation, Boston, Massachusetts, 1975.  
*Cone-rod Dystrophy in Guinea Baboons*

9. The American Society of Contemporary Ophthalmology, Miami, Florida, February-March, 1976.  
*Laser Therapy in Intraocular Tumors*
10. International Society of Clinical Electroretinography Symposium, Louisville, Kentucky, 1976.  
*Fundus Flavimaculatus: A Clinical Classification*
11. Association for Research in Vision and Ophthalmology, Sarasota, Florida, 1976.
  - a. *Pseudovitelliform Macular Degeneration*
  - b. *Fundus Flavimaculatus: A Clinical Classification*
12. Association for Research in Vision and Ophthalmology, Sarasota, Florida, 1977.  
*Foveal Lesions in Retinitis Pigmentosa*
13. Association for Research in Vision and Ophthalmology, Sarasota, Florida, 1978.  
*Vitreous Fluorophotometry in Hereditary Retinal Disease*
14. International Fluorescein Angiography Symposium, Carmel, California, 1979.  
*Vitreous Fluorophotometry in Retinitis Pigmentosa*
15. American Academy of Ophthalmology, Atlanta, Georgia, 1981.  
*Symposium: Update in Electrophysiology: The Electro-oculogram in Retinal and Choroidal Disease*
16. International Society of Genetic Eye Disease, Jerusalem, Israel, 1981.  
*Vitreous Fluorophotometry in Carriers of X-linked Recessive Retinitis Pigmentosa*
17. Wilmer Eye Institute, Symposium on Retinal Diseases, November, 1981.  
*Retinal Degenerations: An Overview*
18. Macula Society, Florida, February, 1982.  
*Electrophysiology and Psychophysics in Hereditary Retinal Diseases*

19. American Association of Certified Orthoptists: Current Concepts of Strabismus, Chicago, Illinois, April 19-20, 1982  
*Visual Evoked Response Testing*
20. AMA Science Writers Seminar, Chicago, Illinois, September, 1982.  
*Sunlight, Sunglasses, and Sensible Selection*
21. Conference - University of Illinois Eye and Ear Infirmary, September, 1982.  
*Recent Advances in Retinal Diseases and the Uses of Lasers in Ophthalmology  
"Hereditary and Toxic Retinopathies"*
22. International Symposium on Retinal Disease, San Diego, California, October, 1982.  
*Clinical Variations in Retinitis Pigmentosa*
23. American Academy of Ophthalmology Symposium, San Francisco, California, 1982.  
*Phenotypic Similarities of Hereditary Retinal Diseases*
24. The International Society of Genetic Eye Disease, San Francisco, California, November, 1982.  
*Electro-oculography of the Retinal Dystrophies*
25. American Academy of Ophthalmology, San Francisco, California, November, 1982.  
*Symposium: Update on Macular Diseases: Similarities of Hereditary Macular Dystrophies*
26. Jules Stein Eye Institute, Los Angeles, California, January, 1983.  
*Symposium: Practical Use of the Visual Physiology Laboratory*
27. Wills Eye Hospital, Philadelphia, Pennsylvania, March, 1983.  
*Course: Practical Electrodiagnostics for the Clinician. "The Electroretinogram; Theory and Practice"*
28. Association for Research in Vision and Ophthalmology, Sarasota, Florida, May, 1983.

*Usher's Syndrome: Heterogeneity*

29. University of Minnesota, Minneapolis, Minnesota, April, 1983.

*Annual Continuation Course: "Current Concepts of Vitreoretinal Disease"*

30. Association for Research in Vision and Ophthalmology, Sarasota, Florida, May, 1984.

*Variability of Visual Fields in Normals and Patients with Retinitis Pigmentosa*

31. Vision Development: Normal and Abnormal-What We Know in 1984. Sponsored by the National Children's Eye Care Foundation, National Institutes of Health, Bethesda, Maryland, September, 1984.

*Retinal Dystrophies*

32. American Academy of Ophthalmology, Atlanta, Georgia, November, 1984.

*Symposium: Complications of Intraocular Lens Implantation: Hazards of Ultraviolet Radiation*

33. Macula Society, Marathon, Florida, March, 1985.

*A Subclassification of Autosomal Dominant Retinitis Pigmentosa*

34. Committee on Vision: Working Group on Night Vision. Brooks Air Force Base, San Antonio, Texas, October 30 - November 1, 1985.

*Retinal Dystrophies: Diagnosis and Detection*

35. Emory University School of Medicine, Atlanta, Georgia, November 1, 1985.

*Human Cell Biology of the Retina: Implications of Basic and Clinical Research Hereditary Retinal and Choroidal Disorders*

36. University of Illinois Eye and Ear Infirmary, Chicago, Illinois, November 14, 1985

*Symposium on Neuro-Ophthalmology: Electroretinography in Neuro-Ophthalmologic Diagnosis*

37. Retinitis Pigmentosa Foundation, Baltimore, Maryland, November 7-8, 1985.

- RP - Immune System Workshop: Overview of Published Immune System Research in Relation to RP*
38. Macula Society, Boca Raton, Florida, March, 1986.
- Clinical Characteristics of Carriers for X-linked Retinitis Pigmentosa*
39. Ophthalmic Genetics Study Club, New Orleans, Louisiana, November 8, 1986.
- X-linked-Recessive Retinitis Pigmentosa: Diagnosis of Carriers*
40. Retinitis Pigmentosa Foundation, Atlantic City, New Jersey, February 22-24, 1987.
- The Patient's Contribution to Research*
41. American Academy of Ophthalmology, North Central Regional Update Course, Chicago, Illinois, September 18, 1987.
- Evaluation of Plaquenil Toxicity*
42. American Academy of Ophthalmology, Dallas, Texas, November 11, 1987.
- Hereditary Retinal Disorders - Diagnosis, Classification, and Electrophysiologic Testing*
43. Ophthalmic Genetics Study Club, Dallas, Texas, November 7, 1987.
- Clinical Profile of Patients with X-Linked Retinitis Pigmentosa*
44. Macula Society, Tucson, Arizona, February 27, 1988
- Foveal Function in Retinitis Pigmentosa*
45. International Society for Clinical Electrophysiology of Vision, Estoril, Portugal, May 21, 1988.
- Electroretinographic Findings in Carriers of X-linked Retinitis Pigmentosa*
46. American Academy of Ophthalmology, Las Vegas Nevada, October 12, 1988.
- Advances in Foveal Testing: Psychophysics, Electroretinography and Fundus Reflectometry*
47. Noninvasive Assessment of The Visual System; Sponsored by the Optical Society of America, Santa Fe, New Mexico, February 13-15, 1989

*Research Frontiers in Retinal Disease*

48. Combined Meeting of The Macula and Retina Society, Boston, Massachusetts, June 21-25, 1989

*Treatment of Chronic Macular Edema with Acetazolamide in Patients with Retinitis Pigmentosa*

49. Eye Trauma Symposium, The University of Illinois Hospital Eye and Ear Infirmary, Chicago, Illinois, July 22, 1989

*Electrophysiology in Penetrating Ocular Trauma*

50. Ophthalmology for the 90's: Directions for Clinical Practice. UIC Eye Center Annual Meeting, September 22-23, 1989

*Acetazolamide Treatment of Chronic Macular Edema in Retinitis Pigmentosa*

51. Horizons in Ophthalmology. UIC Eye Center Annual Meeting, September 14-15, 1990

*Measurement of Foveal Function in Retinal Disorders*

52. The Macula Society: Fifteenth Annual Meeting, Scottsdale, Arizona, February 29, 1992

*Ocular Findings Associated With Rhodopsin Gene Mutations in Dominant Retinitis Pigmentosa*

53. Neurosciences in the 21st Century: The Biology of Neurological Diseases for the Clinician. The University of Illinois at Chicago, September 25, 1992

*The Genetic Basis of Retinitis Pigmentosa*

54. American Academy of Ophthalmology, Dallas Texas, November 10, 1992. Macular Society Symposium: Hereditary Retinal Disorders.

*Cone-Rod Dystrophies*

55. American Academy of Ophthalmology, Dallas Texas, November 12, 1992. Light and the Eye.
- Sunglasses and Other Protective Devices*
56. Residents-Alumni Day, UIC Eye Center, May 14-15, 1993.
- Carbonic Anhydrase Inhibitors for Retinitis Pigmentosa*
57. International Society for Clinical Electrophysiology of Vision, 31st Symposium, Chiba, Japan, May 25-29, 1993, (Invited Lecture).
- Electrophysiologic Findings in Subtypes of Retinitis Pigmentosa and Cone-Rod Dystrophy*
58. The Statewide Illinois Low Vision Conference: Discovery 93. Chicago, Illinois, October 14-16, 1993, (Featured Speaker).
- Hereditary Blinding Retinal Disorders and the Visual Practitioner*
59. New Dimensions in Retina, Chicago, Illinois, November 12, 1993.
- Phenotypic Similarities in Macular Dystrophies - A Clinician's Approach to Sorting Out These Conditions*
60. Israel Society for Eye and Vision Research, Neve Ilan, Israel, December 16-17, 1993. (Honored Guest Lecturer).
- The Genotype and Phenotype in RP Patients*
61. The Macula Society: Seventeenth Annual Meeting, Rancho Mirage, California, February 23-26, 1994.
- Clinical Subtypes of Cone-Rod Dystrophy*
62. Vitreoretinal Interfaces, San Francisco, California, October 27-29, 1994.
- Electrophysiology and Hereditary Retinal Disorders*
63. Cogan Ophthalmic History Society, Bethesda, Maryland, March 16-17, 1995.
- Anne Sullivan: Her life and blindness*

64. Discovery 95, The Third Low Vision Conference, Chicago, Illinois, October 12-14, 1995.  
*Understanding Stargardt's and other Juvenile Macular Dystrophies*
65. Cogan Ophthalmic History Society, Bethesda, Maryland, March 15-16, 1996.  
*Friedrich Best: More Than Just The Macula*
66. The Macula Society: Nineteenth Annual Meeting, Tucson, Arizona, February 21-24, 1996.  
*Visual Acuity Impairment in Patients With Retinitis Pigmentosa*
67. 1996 Harold F. Falls Symposium "The X-Chromosome and Retinal Disease" W.K. Kellogg Eye Center University of Michigan, June 29, 1996.  
*Atypical Presentations and Differential Diagnosis of X-linked Retinal Dystrophies*
68. The Macula Society: Twenty-first Annual Meeting, Boca Raton, Florida, February 18-21, 1998.  
*Patterns of Visual Field Progression in Patients With Retinitis Pigmentosa*
69. Cogan Ophthalmic History Society, Boston, Massachusetts, March 14-15, 1998.  
*Jan Evangelista Purkyne*
70. UIC Eye Center, Pediatric Ocular Genetics Symposium, March 25, 1998.  
*Retinal Degenerative Disorders in Children and Young Adults*
71. The National Conference of the Foundation Fighting Blindness, August 21-23, 1998, Chicago, IL.  
A. *Macular Degeneration*  
B. *Genetics: The Family Connection*
72. The Macula Society: Twenty-Second Annual Meeting, San Diego, California, February 24-27, 1999.  
*Evaluation of Changes in Visual Function in Carriers of X-linked retinitis pigmentosa*
73. UIC Eye Center, Pediatric Ophthalmology and Adult Strabismus Symposium, September 18, 1999.

*Diagnosis of Hereditary Pediatric Retinal Disorders*

74. American Academy of Ophthalmology, Orlando, Florida, October 24-27, 1999.

*Jan Purkyne*

75. Visions 2000: The National Conference of The Foundation Fighting Blindness, August 10-12, 2000.

- 1) *Laurence-Moon Bardet-Biedl Syndrome*
- 2) *Clinical Aspects of Rare RDDs Including Bardet-Biedl, Cone Dystrophy, Congenital Color Blindness, Batten Disease, Choroideremia, and Atypical Forms of Retinitis pigmentosa*
- 3) *Driving: Visual Function and Risk Assessment*

76. Discovery: The Low Vision Conference 2000, Chicago, Illinois, September 22, 2000, Keynote Address.

*A Look at the Future: Genetic Screening and The Treatment of Hereditary Disorders*

77. Visions 2002: The National Conference of The Foundation Fighting Blindness, August 22-24, 2002.

- 1) *Clinical Aspects of Retinitis Pigmentosa*
- 2) *Loss of Visual Function and Its Impact on Daily Activities*

78. The Foundation Fighting Blindness: Usher Consortium; Strategies for Developing Animal Models and Gene Therapy Approaches, Chicago, Illinois, August 22, 2002.

*Overview of Usher Syndrome Phenotypes*

79. Discovery: The Low Vision Conference 2002, Chicago, Illinois, September 27, 2002, Keynote Address.

*Treatment Strategies for Patients With Various Inherited Retinal Diseases*

80. Gene Therapy: Regulatory, Product, and Clinical Issues for Retinal Degenerative Diseases. NEI and FDA sponsored. Gaithersburg, Maryland, September 25, 2003.

*Selection Criteria and Outcome Measures in Clinical Trials for Retinal Degenerative Diseases*

81. The Editor's Choices. American Academy of Ophthalmology, Anaheim, California, November 15-18, 2003.

*Visual Acuity Loss and Clinical Observations in 361 Patients with Stargardt Disease*

82. The Macula Society: Twenty-Sixth Annual Meeting, Naples, Florida, February 26-March 1, 2004.

*ABCA4 Gene Sequence Variations in Patients with Autosomal Recessive Cone-Rod Dystrophy*

83. Ophthalmology Update. Punta Cana, Dominican Republic, March 25-March 27, 2004.

*Electrophysiology and Retinal Disease*

84. Visions 2004: The National Conference of The Foundation Fighting Blindness, August 19-21, 2004, Chicago, Illinois.

- 1) *What You Need to Know About Various Treatment Strategies for Patients With Retinal and Macular Degenerations*
- 2) *Overview of Retinitis Pigmentosa*
- 3) *RP and Other Peripheral Loss Diseases*

85. The Chicago Subspecialty Guest Lecturer Series. Loyola University, Department of Ophthalmology, February 9, 2005.

- 1) *The Importance of ERG, EOG, and Dark-Adaptation Testing in Various Inherited Retinal Dystrophies*
- 2) *How to Diagnose Various Juvenile Onset Macular Dystrophies*

86. Cogan Ophthalmic History Society, Durham, North Carolina, April 8-10, 2005.

*Edgar Derry Tillyer: The Man and His Career*

87. American Academy of Ophthalmology, Chicago, Illinois, October, 15-18, 2005.  
*Therapy for Retinitis Pigmentosa*
88. Discovery 2005: The Low Vision Conference, Chicago, Illinois, 2005.  
*What You Need to Know About Treatment Strategies for Retinal Diseases*
89. Frontiers in Vision Science Symposium, University of Illinois at Chicago, November 4, 2005.  
*Ocular Genetics: Development and Disorders*  
*Mutations of Genes Involved in the Visual Cycle and Phototransduction Cascade in Patients with Hereditary Retinal Diseases*
90. UIC Department of Ophthalmology and Visual Sciences, Thirty-First Annual Alumni Day, June 22, 2007  
*Treatment of Macular Cystic Changes in Patients with Retinitis Pigmentosa and X-linked Retinoschisis*
91. Visions 2007: National Conference of The Foundation Fighting Blindness, July 20-22, 2007, Kansas City, Kansas.  
*What You Need to Know About Your Vision and Participating in a Clinical Trial*
92. Vision Seminar Series: Foundation Fighting Blindness, September 8, 2007, Naperville, Illinois.  
*Retinitis Pigmentosa: What You Need to Know About Your Vision and Participating in a Clinical Trial*
93. American Academy of Ophthalmology: Retina Subspecialty Day: November 10, 2007, New Orleans, Louisiana.  
*Dorzolamide for Macular Edema in X-linked Retinoschisis and Retinitis Pigmentosa*
94. Alumni Day, University of Illinois at Chicago: June 20, 2008, Chicago, Illinois  
*Prevalence of CME in RP Patients with a Normal Macula on Fundus Exam*

## INVITED LECTURES

- 1976 Case-Western Reserve University, Cleveland, Ohio.
- 1977 Macular Society, Featured speaker, Miami, Florida.
- 1979 University of San Antonio, San Antonio, Texas.
- 1980 Emory University, Atlanta, Georgia.
- 1980 Hermann Eye Center, Baylor University, Houston, Texas.
- 1980 Wilmer Eye Institute, Baltimore, Maryland.
- 1981 Chicago Ophthalmological Society, Chicago, Illinois.
- 1982 Medical College of Wisconsin, Milwaukee, Wisconsin.
- 1983 Bascom Palmer Eye Institute, Miami, Florida.
- 1983 University of Minnesota, Minneapolis, Minnesota.
- 1983 Jules Stein Eye Institute, Los Angeles, California.
- 1984 Yale University Ophthalmology Department, New Haven, Connecticut.
- 1984 University of Utah School of Medicine, Department of Ophthalmology, Salt Lake City, Utah.
- 1985 Wilmer Eye Institute, Johns Hopkins School of Medicine, Baltimore, Maryland.
- 1986 Lu-Ester Mertz Lectures, Manhattan Eye, Ear and Throat Hospital, New York, New York.
- 1987 National Eye Institute Grand Rounds, Bethesda, Maryland.
- 1988 The Ophthalmological Society of New Zealand, Wellington, New Zealand.
- 1989 The Royal Australian College of Ophthalmology. 21st Annual Scientific Congress, Brisbane, Australia
- 1991 Greater New York Medical Retina Lecture Series, Manhattan Eye Ear and Throat Hospital, New York, NY.

- 1991 Jack Crawford Paediatric Ophthalmology Conference, The Hospital for Sick Children, Toronto, Ontario Canada
- 1992 The University of Iowa, Iowa City, Wolfe Foundation Lecture, October 9, 1992.
- 1993 Canadian RP Research Foundation-Fighting Blindness, Toronto, Ontario Canada, April 1, 1993.
- 1996 Wayne State University/Kresge Eye Institute, Detroit, Michigan, April 6, 1996.

## HONORS

### Awards:

- Illinois "Golden Apple Award" for outstanding teacher at the University of Eye and Ear Infirmary, 1981.
- Inducted into the "Gallery of Success" Beachwood High School. September 27, 1991.
1999. Selected to "The Best Doctors in America," October, 1993, February 1999.
- "Golden Apple Award" for outstanding teaching at the University of Illinois Eye and Ear Infirmary, 1996.
- Top Doctors in Chicago, Chicago Magazine, January, 1997.
- Chicago Lighthouse for the Blind and Visually Impaired "Beacon of Excellence Award," 1999.
- University of Illinois College of Medicine at Chicago "Distinguished Faculty Award," May, 2000
- University of Illinois College of Medicine at Chicago "The Marion Schenk Esq. Endowed Chair of Ophthalmology," June, 2002

### Honorary Lectures:

- Alex Krill Memorial Lecture,  
Chicago Ophthalmological Society,  
Chicago, Illinois.  
November 21, 1983.
- Marvin Henry Memorial Lecture,  
UIC Eye Center,  
Chicago, Illinois,  
June 19, 1996.
- The Paul Henkind Memorial Lecture  
The Macula Society  
Puerto Rico  
February 24, 2000  
"The Value of Electroretinography and Molecular Genetic Testing in the  
Diagnosis of Retinal Diseases"

The Peter C. Kronfeld Memorial Lecture  
UIC Eye Center, 30<sup>th</sup> Annual Residents-Alumni Day  
June 7, 2006  
“My 36 years at UIC in the Study of Inherited Retinal Disease:  
The Past and the Future”

Honor Award:

American Academy of Ophthalmology, 1984.  
(For contributions to clinical education).

Senior Honor Award, 2000

Honorary Committee:

Association for Research in Vision and Ophthalmology (ARVO) Retina  
Section Chairman, 1985-1986.

### **JOURNAL REVIEWS**

- Survey of Ophthalmology
- Investigative Ophthalmology
- Archives of Ophthalmology
- Current Eye Research
- Retina
- The New England Journal of Medicine
- Ophthalmology
- Documenta Ophthalmologica
- Experimental Eye Research
- Vision Research
- Graefe's Archive for Clinical and Experimental Ophthalmology
- American Journal of Ophthalmology

### **GENERAL REVIEWS**

- National Eye Institute, National Institutes of Health

### **EDITORIAL BOARDS**

- Assistant Editor, Archives of Ophthalmology  
January, 1988 - July, 1989: Editorial Board 1988-1994
- Ophthalmic Paediatrics and Genetics

- Retina
- Vision Research
- Editor Documenta Ophthalmologica (ISCEV issues), March 1, 1990 - January 1, 1998

#### GRANT SUPPORT

- 1974-1975 NIH Post-doctoral Fellowship in Ocular Pathology.
- 1975-1978 Salary support from the National Retinitis Pigmentosa Foundation to study hereditary retinal dystrophy in the Guinea baboon.
- 1980-present Retinitis Pigmentosa Center Grant, National Retinitis Pigmentosa Foundation to study hereditary retinal dystrophies.

Total award (1994-1997) \$291,725

Total award (1997-1998) \$142,317

Total award (1998-1999) \$157,629

Total award (1999-2000) \$165,324

Total award (2000-2001) \$133,922

Total award (2001-2006) \$757,684

## COMMITTEES

- University of Illinois Eye and Ear Infirmary
  - Chairman, Residency Selection Committee (1978 - 1991)
  - Member:
    - Resident Research Committee
    - Library Committee
  
- Abraham Lincoln School of Medicine
  - Member:
    - Committee to select "Distinguished Faculty Member"
  - Chairman:
    - By-Laws Committee (1989-1997)
  
- American Academy of Ophthalmology
  - Courses Taught 1979 - 1986 (Hereditary and Medical Retinal Disorders with Michael Goldbaum, M.D.)
  - Basic and Clinical Science Course - manual preparation, Section 1, Fundamentals and Principals of Ophthalmology; wrote section on Genetics (1989-1992).
  
- Fight for Sight
  - Grants in Aid, Review Committee, ARVO; 1985 - 1989

**MANUSCRIPTS SUBMITTED OR IN PRESS**

**GERALD ALLEN FISHMAN, M.D.**

1. Hajali, M., Fishman, G.A.: The prevalence of cystoid macular edema on optical coherence tomography in retinitis pigmentosa without cystic changes on fundus exam. Published online, *Eye*, 2008.
2. Hajali, M., Fishman, G.A., Anderson, R.J.: The prevalence of cystoid macular edema in retinitis pigmentosa patients determined by optical coherence tomography. Accepted for publication, *British Journal of Ophthalmology*, 2008
3. Walia, S., Fishman, G.A., Hajali, M: Prevalence of cystic macular lesions in patients with Usher II syndrome. Published online, *Eye*, 2008.
4. Walia, S., Fishman, G.A.: Retinal nerve fiber layer analysis in RP patients using Fourier-domain OCT. Published online, *Investigative Ophthalmology and Visual Sciences*, 2008.
5. Walia, S., Fishman, G.A., Zermart-Rajing, J., Raime, K., Allikmets, R.: Phenotypic expression of a PRPF8 gene mutation in a large African-American family. Accepted for publication, *Archives of Ophthalmology*, 2008.

## JOURNAL PUBLICATIONS

### GERALD ALLEN FISHMAN, M.D.

1. Fishman, G.A.: Techniques, merits and limitations of basic tests for color defectiveness. *Survey of Ophthalmology*, 15:370-373, 1971.
2. Krill, A.E. and Fishman, G.A.: Acquired color vision defects. *Transactions American Academy of Ophthalmology and Otolaryngology*, 75:95-1111, 1971.
3. Read, J., Goldberg, M.F., Fishman, G.A., and Rosenthal, I.M.: Nephropathic cystinosis. *American Journal of Ophthalmology*, 76:791-796, 1973.
4. Daily, M.J., Peyman, G.A., and Fishman, G.A.: Intravitreal injection of methicillin for treatment of endophthalmitis. *American Journal of Ophthalmology*, 76:343-350, 1973.
5. Fishman, G.A., Krill, A.E., and Fishman, M.: Acquired color defects in patients with open angle glaucoma and ocular hypertension. *Modern Problems in Ophthalmology*, 13:335-338, 1974.
6. Fishman, G.A., Rabb, M.F., and Kaplan, J.: Acute posterior multifocal placoid pigment epitheliopathy. *Archives of Ophthalmology*, 92:173-177, 1974.
7. Apple, D.J., Fishman, G.A., and Goldberg, M.F.: Ocular histopathology of Norrie's disease. *American Journal of Ophthalmology*, 78:196-203, 1974.
8. Fishman, G.A., Apple, D.J., and Goldberg, M.F.: Retinal and pigment epithelial alterations over malignant choroidal melanomas. *Annals of Ophthalmology*, 7:487-492, 1975.
9. Graham, R., Peyman, G.A., and Fishman, G.A.: Intravitreal injection of cephaloridine for treatment of endophthalmitis. *Archives of Ophthalmology*, 93:56-61, 1975.
10. Peyman, G.A., Fishman, G.A., Sanders, D.R., Apple, D.J., and Vlcek, J.D. Biopsy of human scleral-chorioretinal tissue. *Investigative Ophthalmology and Visual Science*, 14:707-710, 1975.
11. Sanders, D.R., Peyman, G.A., Fishman, G.A., Vlcek, J.D., and Korey, M.: The toxicity of intravitreal whole blood and hemoglobin. *Albrecht von Graefes Arch. Klin Ophthalmology*, 197(3):255-267, 1975.
12. Fishman, G.A., Carrasco, C., and Fishman, M.: The EOG in diffuse (familial) drusen. *Archives of Ophthalmology*, 94:231-233, 1976.

13. Fishman, G.A., Fried, W., and Jednock, N.: Vitreo-chorioretinal degeneration associated with trichomegaly. *Annals of Ophthalmology*, 8:811-815, 1976.
14. Fishman, G.A., Jampol, L.M., and Goldberg, M.F.: Diagnostic features of the Favre-Goldmann syndrome. *British Journal of Ophthalmology*, 60:345-353, 1976.
15. Fishman, G.A.: Progressive human cone-rod dysfunction (dystrophy). *Transactions, American Academy of Ophthalmology and Otolaryngology*, 81:716-724, 1976.
16. Fishman, G.A., Woolf, M.B., Goldberg, M.F., and Busse, B.: Reticular tapetoretinal dystrophy: As a possible late stage of Sjogren's reticular dystrophy. *British Journal of Ophthalmology*, 60:35-40, 1976.
17. Fishman, G.A.: Fundus flavimaculatus: A clinical classification. *Archives of Ophthalmology*. 94:2061-2067, 1976.
18. Vanisi, S., Fishman, G.A., and Wolf, D.: Cone-rod dystrophy in Guinea baboon. *Transactions, American Academy of Ophthalmology and Otolaryngology*, 81:725-730, 1976.
19. Fishman, G.A.: Ten forms of hereditary night blindness. *Consultant*, March, 1976.
20. Fishman, G.A., Buckman, G., and VanEvery, T.: Fundus Flavimaculatus: A clinical classification. *Documenta Ophthalmologica Proceedings Series*, 13:213-220, 1977.
21. Peyman, G.A., Sanders, D.R., Fishman, G.A.: Sclerochorioretinal biopsy. An approach to tissue diagnosis and study of choroidal and retinal disease. *Transactions Ophthalmological Society New Zealand*, 29:101-106, 1977.
22. Fishman, G.A., Baskin, M.: Spinal fluid in acute posterior multifocal placoid pigment epitheliopathy. *Annals of Ophthalmology*, 9:33-36, 1977.
23. Peyman, G.A., Fishman, G.A., and Sanders, D.M.: Histopathology of the Goldmann-Favre syndrome obtained by full-thickness eye-wall biopsy. *Annals of Ophthalmology*, 9:479-484, 1977.
24. Fishman, G.A., Rabb, M., Trimble S.: Pseudovitelliform macular degeneration. *Archives of Ophthalmology*, 95:73-76, 1977.
25. Fishman, G.A., Fishman, M., and Maggiano, J.: Macular lesions with retinitis pigmentosa. *Archives of Ophthalmology*, 95:798-803, 1977.

26. Stainer, G.A., Peyman, G.A., Meisels, H., and Fishman, G.A.: Toxicity of selected antibiotics in vitreous replacement fluid. *Annals of Ophthalmology*, 9:615, 1977.
27. Fishman, G.A., Maggiano, J.M., and Fishman, M.: Foveal lesions in retinitis pigmentosa. *Archives of Ophthalmology*, 95:1993-1996, 1977.
28. Maggiano, J.M., Fishman, G.A., Evans, L.S., Sieving, P., and Goldbaum, M.: Calibration error in dark adaptometer. *Archives of Ophthalmology*, 96:1082-1083, 1978.
29. Sieving, P., Fishman, G.A., and Maggiano, J.M. Corneal wick electrode for recording early receptor potentials and bright flash electroretinograms. *Archives of Ophthalmology*, 96:899-900, 1978.
30. Fishman, G.A.: Retinitis pigmentosa: Genetic percentages. *Archives of Ophthalmology*, 96:822-826, 1978.
31. Sieving, P., Fishman, G.A.: Refractive errors of retinitis pigmentosa patients. *British Journal of Ophthalmology*, 62:163-176, 1978.
32. Snyder, D.A., Fishman, G.A., Witteman, G., and Fishman, M.: Vitelliform lesions associated with retinal pigment epithelial detachment. *Annals of Ophthalmology*, 10:1711-1715, 1978.
33. Fishman, G.A.: Retinitis pigmentosa: Visual loss. *Archives of Ophthalmology*, 96:1185-1188, 1978.
34. Merin, S., Maggiano, J.M., and Fishman, G.A.: Retinal sensitivity under photopic conditions in patients with retinitis pigmentosa and carriers of X-linked recessive form. *Metabolic Ophthalmology*, 2:225-229, 1978.
35. Fram, I., Read, J.S., McCormick, B.H., and Fishman, G.A.: In vivo study of the photolabile visual pigment utilizing the television ophthalmoscope image processor. *Proceedings Computers in Ophthalmology*, 79:133-139, 1979.
36. Fishman, G.A., Goldberg, M.D., Trautman, J.D.: Dominantly inherited cystoid macular edema. *Annals of Ophthalmology*, 11:21-27, 1979.
37. Fishman, G.A., Vasquez, V., Fishman, M., and Berger, D.: Visual loss and foveal lesion in Usher's syndrome. *British Journal of Ophthalmology*, 63:484, 1979.
38. Sondheimer, S., Fishman, G.A., Young, R.A., and Vasquez, V.: Dark adaptation testing in heterozygotes of Usher's syndrome. *British Journal of Ophthalmology*, 63:547-550, 1979.

39. Fishman, G.A.: Usher's Syndrome: Visual loss and variation in clinical expressivity. *Perspectives in Ophthalmology*, 3:97-102, 1979.
40. Fishman, G.A., Young, R.S.L., Schall, S.P., and Vasquez, V.: Electro-oculogram testing in fundus flavimaculatus. *Archives of Ophthalmology*, 97:1896-1898, 1979.
41. Fishman, G.A., Goldberg, M.F., and Trautman, J.C.: Dominantly inherited cystoid macular edema. *Perspectives in Ophthalmology*, 3:29-35, 1979.
42. Gieser, D.K., Fishman, G.A., and Cunha-Vaz, J.: X-linked recessive retinitis pigmentosa and vitreous fluorophotometry: A study of female heterozygotes. *Archives of Ophthalmology*, 98 :307-310, 1980.
43. Young, R.S.L., and Fishman, G.A.: Color matches of patients with retinitis pigmentosa. *Investigative Ophthalmology and Visual Science*, 19:967-972, 1980.
44. Young, R.S.L., Fishman, G.A. and Chen, F.: Traumatically acquired color vision defects. *Investigative Ophthalmology and Visual Science*, 19:545-549, 1980.
45. Young, R.S.L., Fishman, G.A.: Loss of color vision and Stiles'III mechanism in a patient with cerebral infarction. *Journal of the Optical Society of America*, 70:1301-1305, 1980.
46. Borgwardt, B., Fishman, G.A., Vander Meulen, D.: Spectral transmission characteristics of tinted lenses. *Archives of Ophthalmology*, 99:293-297, 1981.
47. Orth, D.J., Fishman, G.A., Segall, A., et al.: Rubella maculopathy. *British Journal of Ophthalmology*, 64:201-205, 1980.
48. Fishman, G.A.: Toxic retinopathies. *Contemporary Ophthalmology*, 1:1-5, 1980.
49. Fishman, G.A., Cunha-Vaz, J.: Carriers of X-linked recessive retinitis pigmentosa: Investigation by vitreous fluorophotometry. *International Ophthalmology*, 4:37-44, 1981.
50. Fishman, G.A., Anderson, R.J., Stinson, L., Haque, A.: Driving performance of retinitis pigmentosa patients. *British Journal of Ophthalmology*, 65:122-126, 1981.
51. Fishman, G.A., Cunha-Vaz, J., Salzano, T.: Vitreous fluorophotometry in patients with retinitis pigmentosa. *Archives of Ophthalmology*, 99:1202-1207, 1981.

52. Fishman, G.A., Young, R.S.L., Vasquez, V.A., and Lourenco, P.: Color vision defects in retinitis pigmentosa. *Annals of Ophthalmology*, 13:609-618, 1981.
53. Young, R.S.L., Goldberg, M.F., Fishman, G.A.: The minimum retinal irradiance required for viewing human fundi in indirect ophthalmoscopy. *Investigative Ophthalmology and Visual Science*, 20:701-704, 1981.
54. Lindberg, C.R., Fishman, G.A., Anderson, R.J., and Vasquez, V.: Contrast sensitivity in retinitis pigmentosa. *British Journal of Ophthalmology*, 65:855-858, 1981.
55. Kaufman, S.J., Goldberg, M.F., Orth, D.H., Fishman, G.A., Tessler, H., Mizuno, K.: Autosomal dominant vitreoretinopathopathy. *Archives of Ophthalmology*, 100:272-278, 1982.
56. Young, R.S.L., Krefman, R., Fishman, G.A.: Visual improvements with red-tinted glasses in a patient with cone dystrophy. *Archives of Ophthalmology*, 100:268-271, 1982.
57. Young, R.S.L., Fishman, G.A.: Sensitivity losses in a long wavelength sensitive mechanism of patients with retinitis pigmentosa. *Vision Research*, 22:1163-172, 1982.
58. Fishman, G.A., Cunha-Vaz, J.G., and Travassos, A.C.: Vitreous fluorophotometry in patients with fundus flavimaculatus. *Archives of Ophthalmology*, 100:1086-1088, 1982.
59. Doka, D., Fishman, G.A.: Refractive errors in patients with fundus flavimaculatus. *British Journal of Ophthalmology*, 66:227-229, 1982.
60. Sieving, P.A., Fishman, G.A.: Rod contribution to the human early receptor potential (ERP) estimated from monochromats' data. *Documenta Ophthalmologica Proceedings Series*, 31:95-102, 1982.
61. Santos-Anderson, R.M., Tso, M.O.M., Fishman, G.A.: A histopathologic study of retinitis pigmentosa. *Ophthalmic Paediatrics and Genetics*, 1:151-168, 1982.
62. Fishman, G.A.: Electrophysiologic tests isolate inherited retinal dystrophies. *Ophthalmology Times*, Vol. 7 No. 3, March 1982.
63. Young, R.S., Krefman, R.A., Anderson, R.J., Fishman, G.A.: Two additional benefits of dark glasses on rod vision in patients with congenital achromatopsia. *American Journal of Optometry and Physiological Optics*, 60:56-60, 1983.

64. Thomas, M., Fishman, G.A., Vander Meulen, D.: Spectral transmission characteristics of intraocular and aphakic contact lenses. *Archives of Ophthalmology*, 101:92-93, 1983.
65. Bloom, T.D., Fishman, G.A., Traubert, B.S.: Laser interferometric visual acuity in senile macular degeneration. *Archives of Ophthalmology*, 101:925-926, 1983.
66. Fishman, G.A., Kumar, A., Joseph, M.D., Torok, N., Anderson, R.J.: Usher's syndrome: Ophthalmic and neuro-otologic findings suggesting genetic heterogeneity. *Archives of Ophthalmology*, 101:1367-1374, 1983.
67. Liang, J.C., Fishman, G.A., Huamonte, F.U., Anderson, R.J.: Comparative electroretinograms in argon laser and xenon arc panretinal photocoagulation. *British Journal of Ophthalmology*, 67:520-525, 1983.
68. Bloom, T.D., Fishman, G.A., Mafee, M.F.: Usher's syndrome: CNS defects determined by computed tomography. *Retina*, 3:108-113, 1983.
69. Lourenco, P.E., Fishman, G.A., Anderson, R.J.: Color vision in albino subjects. *Documenta Ophthalmologica*, 55:341-350, 1983.
70. Sieving, P.A., Fishman, G.A., Alexander, K.R., Goldberg, M.F.: Early receptor potential in human ocular siderosis. *Archives of Ophthalmology*, 101:1716-1720, 1983.
71. Boughman, J.A., Fishman, G.A.: A genetic analysis of retinitis pigmentosa. *British Journal of Ophthalmology*, 67:449-454, 1983.
72. Kilbride, P.E., Read, J.S., Fishman, G.A., Fishman, M.: Determination of human cone pigment density spectra in spatially resolved regions of the fovea. *Vision Research*, 23:1341-1350, 1983.
73. Alexander, K.R., Fishman, G.A.: Supernormal scotopic ERG in cone dystrophy. *British Journal of Ophthalmology*, 68:69-78, 1984.
74. Fuerst, D.S., Tessler, H.H., Fishman, G.A., Yokoyama, M.M., Wyhinny, G.J., Vygantas, C.M.: Birdshot retinochoroidopathy. *Archives of Ophthalmology*, 102:214-219, 1984.
75. Blair, N.P., Goldberg, M.F., Fishman, G.A., Salzano, T.: Autosomal dominant vitreoretinochoroidopathy. (ADVIRC) *British Journal of Ophthalmology*, 68:2-9, 1984.
76. Mallick, K.S., Zeimer, R.C., Fishman, G.A., Blair, N.P., Anderson, R.J.: Transport of fluorescein in the ocular posterior segment in retinitis pigmentosa. *Archives of Ophthalmology*, 102:691-696, 1984.

77. Jampol, L.M., Sieving, P.A., Pugh, D., Fishman, G.A., Gilbert, H.: Multiple evanescent white dot syndrome: I. Clinical findings. *Archives of Ophthalmology*, 102:671-674, 1984.
78. Sieving, P.A., Fishman, G.A., Jampol, L.M, Pugh, D.: Multiple evanescent white dot syndrome: II. Electrophysiology of the photoreceptors during retinal pigment epithelial disease. *Archives of Ophthalmology*, 102:675-679, 1984.
79. Peyman, G.A., Greenberg, D., Fishman, G.A., Fiscella, R., Thomas, A.: Evaluation of toxicity of intravitreal antineoplastic drugs. *Ophthalmic Surgery*, 15:411-413, 1984.
80. Sieving, P.A., Fishman, G.A., Salzano, T., Rabb, M.F.: Acute macular neuroretinopathy: early receptor potential change suggests photoreceptor pathology. *British Journal of Ophthalmology*, 68:229-234, 1984.
81. Alexander, K.R., Fishman, G.A.: Rod-cone interaction in flicker perimetry. *British Journal of Ophthalmology*, 68:303-309, 1984.
82. Ross, D., Fishman, G.A., Gilbert, L.D., Anderson, R.J.: Variability of visual field measurements in normal subjects and patients with retinitis pigmentosa. *Archives of Ophthalmology*, 102:1004-1010, 1984.
83. Mathew, L., Miale, T.D., Rao, S., Lobel, S.A., Fishman, G.A., Goldberg, M.F.: Retrospective analysis of 58 children with retinoblastoma. *Ophthalmic Paediatrics and Genetics*, 4:67-74, 1984.
84. Alexander, K.R., Fishman, G.A.: Prolonged rod dark adaptation in retinitis pigmentosa. *British Journal of Ophthalmology*, 68:561-569, 1984.
85. Barrada, A., Peyman, G., Case, J., Fishman, G., Thomas, A., Fiscella, R.: Evaluation of intravitreal 5-fluorouracil, vincristine, VP 16, doxorubicin, and thiotepa in primate eyes. *Ophthalmic Surgery*, 15:767-769, 1984.
86. Fishman, G.A.: Equipment for the measurement of visual evoked cortical potentials. *Ophthalmology, Instrument and Book Suppl.*, 91:134-149, 1984.
87. Kumar, A., Fishman, G., Torok, N.: Vestibular and auditory function in Usher's syndrome. *Annals of Otology, Rhinology and Laryngology*, 93:600-608, 1984.
88. Hendricks, R.L., Fishman, G.A.: Lymphocyte subpopulations and S-antigen reactivity in retinitis pigmentosa. *Archives of Ophthalmology*, 103:61-65, 1985.
89. Puck, A., Tso, M.O.M., Fishman, G.A.: Drusen of the optic nerve associated with retinitis pigmentosa. *Archives of Ophthalmology*, 103:231-234, 1985.

90. Fishman, G.A., Alexander, K.R., Anderson, R.J.: Autosomal dominant retinitis pigmentosa: A method of classification. *Archives of Ophthalmology*, 103:366-374, 1985.
91. Farber, M.D., Fishman, G.A., Weiss, R.A.: Autosomal dominantly inherited retinitis pigmentosa: Visual acuity loss by subtype. *Archives of Ophthalmology*, 103: 524-528, 1985.
92. Fishman, G.A., Anderson, R.J., Lourenco, P.: Prevalence of posterior subcapsular lens opacities in patients with retinitis pigmentosa. *British Journal of Ophthalmology*, 69:263-266, 1985.
93. Fishman, G.A.: Basic principals of clinical electroretinography. *Retina*, 5:123-126, 1985
94. Alexander, K.R., Fishman, G.A.: Rod-cone interaction in flicker perimetry: evidence for a distal retinal locus. *Documenta Ophthalmologica*, 60:3-36, 1985
95. Fishman, G.A.: Electrophysiology and inherited retinal disorders. *Documenta Ophthalmologica*, 60:107-119, 1985.
96. Yue, B.Y.J.T., Fishman, G.A.: Synthetic activities of cultured retinal pigment epithelial cells from a patient with retinitis pigmentosa. *Archives of Ophthalmology*, 103:1563-1566, 1985.
97. Fishman, G.A.: Electroretinography and inherited macular dystrophies. *Retina* 5:172-178, 1985.
98. Travassos, A., Fishman, G., Cunha-Vaz, J.G.: Vitreous fluorophotometry studies in retinitis pigmentosa. *Graefe's Archive of Clinical Experimental Ophthalmology*, 222:237-240, 1985.
99. Newsome, D.A., Fishman, G.A.: Research update: Report on Retinitis Pigmentosa and the Immune System Workshop 7-8 November 1985. *Experimental Eye Research*. 43:1-5, 1986.
100. Kilbride, P.E., Fishman, M., Fishman, G.A., Hutman, L.P.: Foveal cone pigment density difference and reflectance in retinitis pigmentosa. *Archives of Ophthalmology*, 104:220-224,1986.
101. Hunter, D.G., Fishman, G.A., Mehta, R.S., Kretzer, F.L.: Abnormal sperm and photoreceptor axonemes in Usher's syndrome. *Archives of Ophthalmology*, 104:385-389, 1986.

102. Alexander, K.R., Hutman, L.P., Fishman, G.A.: Dark-adapted foveal thresholds and visual acuity in retinitis pigmentosa. *Archives of Ophthalmology*, 104:390-394, 1986.
103. Hendricks, R.L., Fishman, G.A.: Cellular immune function of patients with retinitis pigmentosa. *Investigative Ophthalmology and Visual Science*, 27:356-363, 1986.
104. Fishman, G.A., Rhee, A.J., Blair, N.P.: Blood-retinal barrier function in patients with cone or cone-rod dystrophy. *Archives of Ophthalmology* 104:545-548, 1986.
105. Alexander, K.R., Fishman, G.A.: Rod influence on cone flicker detection: Variation with retinal eccentricity. *Vision Research* 26:827-834, 1986.
106. Fishman, G.A., Weinberg, A.A., McMahon, T.M.: X-linked recessive retinitis pigmentosa: Clinical characteristics of carriers. *Archives of Ophthalmology*, 104:1329-1335, 1986.
107. Piazza, L., Fishman, G.A., Farber, M., Derlacki, D. Anderson, R.J.: Visual acuity loss in patients with Usher's syndrome. *Archives of Ophthalmology*, 104:1336-1339, 1986.
108. Rabb, M.F., Tso, M.O.M., Fishman, G.A.: Cone-rod dystrophy: A clinical and histopathologic report. *Ophthalmology*, 93:1443-1450, 1986.
109. Fishman, G.A.: Ocular phototoxicity: Guidelines for selecting sunglasses. *Survey of Ophthalmology*, 31:119-124, 1986.
110. Peachey, N.S., Fishman, G.A., Derlacki, D., Brigell, M.G.: Psychophysical and electroretinographic findings in X-linked juvenile retinoschisis. *Archives of Ophthalmology*, 105:513-516, 1987.
111. Alexander, K.R., Hutman, L.P., Fishman, G.A.: Abnormal foveal spectral sensitivity in retinitis pigmentosa. *Investigative Ophthalmology and Visual Science*, 28:725-730, 1987.
112. Peachey, N.S., Alexander, K.R., Fishman, G.A.: Rod and cone system contributions to oscillatory potentials: an explanation for the conditioning flash effect. *Vision Research*. 27:859-866. 1987.
113. Anderson, R.E., Maude, M.B., Lewis, R.A., Newsome, D.A., Fishman, G.A.: Abnormal plasma levels of polyunsaturated fatty acid in autosomal dominant retinitis pigmentosa. Letter to the Editors. *Experimental Eye Research* 44:155-159, 1987.

114. Alexander, K.R., Kilbride, P.E., Fishman, G.A., Fishman, M.: Macular pigment and reduced foveal short-wavelength sensitivity in retinitis pigmentosa. *Vision Research* 27:1077-1083, 1987.
115. Peachey, N.S., Charles, H.C., Lee, C.M., Fishman, G.A., Cunha-Vaz, J.G., Smith, R.T.: Electroretinographic findings in sickle cell retinopathy. *Archives Of Ophthalmology* 105:934-938, 1987.
116. Fishman, G.A., Patel, B.S, Farber, M., Derlacki, D.J.: Visual acuity loss in patients with Stargardt's macular dystrophy. *Ophthalmology* 94:809-814, 1987.
117. Hendricks, R.L., Fishman, G.A.: Interferon-gamma production and HLA-DR expression in patients with retinitis pigmentosa. *Experimental Eye Research* 45:923-931, 1987.
118. Piazza, L., Fishman, G.A., Kaplan, R.D., Horowitz, A.L., Hindo, W.A. and Mafee, M.F.: Magnetic resonance imaging of central nervous system defects in Usher's syndrome. *Retina*, 7:241-245, 1987
119. Pulido, J.S., Ward, L.M., Fishman, G.A., Goodwin, J.A., Froelich, C.J., Sanghvi, J.P.: Antiphospholipid antibodies associated with retinal vascular disease. *Retina*, 7:215-218, 1987.
120. Hunter, D.G., Fishman, G.A., Kretzer, F.L.: Abnormal axonemes in X-linked retinitis pigmentosa. *Archives of Ophthalmology*, 106:362-368, 1988.
121. Fishman, G.A., Farber, M.D., Derlacki, D.J.: X-linked retinitis pigmentosa: Profile of clinical findings. *Archives of Ophthalmology*, 106:369-375, 1988.
122. Peachey, N.S., Fishman, G.A., Derlacki, D.J., Alexander, K.R.: Rod and cone dysfunction in carriers of X-linked retinitis pigmentosa. *Ophthalmology*, 95:677-685, 1988.
123. O'Gorman, S., Flaherty, W.A., Fishman, G.A., Berson, E.L.: Histopathology of Best's vitelliform macular dystrophy. *Archives of Ophthalmology*, 106:1261-1268, 1988.
124. Alexander, K.R., Fishman, G.A., Derlacki, D.J.: Mechanisms of rod-cone interaction: Evidence from congenital stationary nightblindness. *Vision Research*, 28:575-583, 1988.
125. Rusin, M.M., Fishman, G.A., Larson, J.A., Gilbert, L.D.: Vitreous fluorophotometry in carriers of choroideremia and X-linked retinitis pigmentosa. *Archives of Ophthalmology*, 107:209-212, 1989.

126. Peachey, N.S., Alexander, K.R., Fishman, G.A.: The luminance-response function of the dark-adapted human electroretinogram. *Vision Research*, 29:263-270, 1989.
127. Peachey, N.S., Alexander, K.R., Fishman, G.A., Derlacki, D.J.: Properties of the human cone electroretinogram during light adaptation. *Applied Optics*, 28:1145-1150, 1989.
128. Yates, D.W., Derlacki, D.J., Pepperberg, D.R., Alexander, K.R., Fishman, G.A.: Rod increment thresholds in cone-rod dystrophy. *Applied Optics*, 28:1115-1121, 1989.
129. Meyer, D.H., Piazza, L., Fishman, G.A.: Evaluation of pure tone and speech discrimination changes in Usher's syndrome. *Annals of Otology, Rhinology and Laryngology*, 98:364-368, 1989.
130. Kilbride, P.E., Alexander, K.R., Fishman, M., Fishman, G.A.: Human macular pigment assessed by imaging fundus reflectometry. *Vision Research*, 29:663-674, 1989.
131. Fishman, G.A., Peachey, N.S.: Rod-cone dystrophy associated with a rod system electroretinogram obtained under photopic conditions. *Ophthalmology*, 96:913-918, 1989.
132. Nathans, J., Davenport, C.M., Maumenee, I.H., Lewis, R.A., Hejtmancik, J.F., Litt, M., Lovrien, E., Weleber, R., Bachynski, B., Zwas, F., Klingaman, R., Fishman, G.: Molecular genetics of human blue cone monochromacy. *Science*, 245:831-838, 1989.
133. Fishman, G.A., Gilbert, L.D., Fiscella, R.G., Kimura, A.E., Jampol, L.M.: Acetazolamide for treatment of chronic macular edema in retinitis pigmentosa. *Archives of Ophthalmology*, 107:1445-1452, 1989.
134. Wack, M.A., Peachey, N.S., Fishman, G.A.: Electroretinographic findings in human oculocutaneous albinism. *Ophthalmology*, 96:1778-1785, 1989.
135. Goldberg, M.F., Lee, F-L., Tso, M.O.M., Fishman, G.F.: Histopathologic study of autosomal dominant vitreoretinopathopathy: Peripheral annular pigmentary dystrophy of the retina. *Ophthalmology*, 96:1736-1746, 1989.
136. Spellman, D.C., Alexander, K.R., Fishman, G.A., Derlacki, D.J.: Letter contrast sensitivity in retinitis pigmentosa patients assessed by Regan charts. *Retina*, 9:287-291, 1989.
137. Peachey, N.S., Fishman G.A., Kilbride P.E., Alexander, K.R., Pori, K.M., Derlacki, D.J. A form of congenital stationary night blindness with apparent

- defect of rod phototransduction. *Investigative Ophthalmology and Visual Sciences*, 31:237-246, 1990.
138. Fishman, G.A., Ward, L.M., Rusin, M.M.: Vitreous fluorophotometry in patients with Best's macular dystrophy. *Retina*, 10:102-104, 1990.
  139. Peachey, N.S., Gagliano, D.A., Jacobson, M.S., Derlacki, D.J., Fishman, G.A., Cohen, S.B.: Correlation of electroretinographic findings and peripheral retinal nonperfusion in patients with sickle cell retinopathy. *Archives of Ophthalmology*, 108:1106-1109, 1990.
  140. Fishman, G.A.: Inherited macular dystrophies: A clinical overview. *Australian and New Zealand Journal of Ophthalmology*, 18:123-128, 1990.
  141. Musarella, M.A., Anson-Cartwright, L., Leal, S.M., Gilbert, L.D., Worton, R.G., Fishman, G.A., Ott, J.: Multipoint linkage analysis and heterogeneity testing in twenty X-linked retinitis pigmentosa families. *Genomics*, 8:286-296, 1990.
  142. Peachey, N.S., Alexander, K.R., Derlacki, D.J., Bobak, P., Fishman, G.A.: Effects of light adaptation on the response characteristics of human oscillatory potentials. *Electroencephalography and Clinical Neurophysiology*, 78:27-34, 1991.
  143. Alexander, K.R., Derlacki, D.J., Fishman, G.A., Peachey, N.S.: Acuity-luminance and foveal increment threshold functions in retinitis pigmentosa. *Investigative Ophthalmology and Visual Sciences*, 32:1446-1454, 1991.
  144. Peachey, N.S., Alexander, K.R., Fishman, G.A.: Visual adaptation and the cone flicker electroretinogram. *Investigative Ophthalmology and Visual Sciences*, 32:1517-1522, 1991.
  145. Szlyk, J.P., Fishman, G.A., Master, S.P., Alexander, K.R.: Peripheral vision screening for driving in retinitis pigmentosa patients. *Ophthalmology*, 98:612-618, 1991.
  146. Fishman, G.A., Farbman, J.S., Alexander, K.R.: Delayed rod dark adaptation in patients with Stargardt's disease. *Ophthalmology*, 98:957-962, 1991.
  147. Sung, C.H., Davenport, C.M., Hennessey, J.C., Maumenee, I.H., Jacobson, S.G., Heckenlively, J.R., Nowakowski, R., Fishman, G.A., Gouras, P., Nathans J.: Rhodopsin mutations in autosomal dominant retinitis pigmentosa. *Proc Natl Acad Sci USA*, 88:6481-6485, 1991.
  148. Yue, B.Y.J.T., Kawa, J.E., Chang, I.L., Sawaguchi, S., Fishman, G.A.: Effects of chondroitin sulfate on cultured human retinal pigment cells. *Cell Biology International Reports*, 15:365-376, 1991.

149. Sheffield, V.C., Fishman, G.A., Beck, J.S., Kimura, A.: Identification of novel rhodopsin mutations associated with retinitis pigmentosa by GC-clamped denaturing gradient gel electrophoresis. *American Journal of Human Genetics*, 49:699-706, 1991.
150. Fishman, G.A., Stone, E.M., Gilbert, L.D., Kenna, P., Sheffield V.C.: Ocular findings associated with a rhodopsin gene codon 58 transversion mutation in autosomal dominant retinitis pigmentosa. *Arch Ophthalmol*, 109:1387-1393, 1991.
151. Stone, E.M., Kimura, A.E., Nichols, B.E., Khadiv, P., Fishman, G.A., Sheffield, V.C.: Regional distribution of retinal degeneration in patients with the proline to histidine mutation in codon 23 of the rhodopsin gene. *Ophthalmology*, 98:1806-1813, 1991.
152. Fishman, G.A., Stone E.M., Sheffield, V.C., Gilbert, L.D., Kimura, A.E.: Ocular findings associated with rhodopsin gene codon 17 and codon 182 transition mutations in dominant retinitis pigmentosa. *Arch Ophthalmol*, 110:54-62, 1992.
153. Peachey, N.S., Alexander, K.R., Derlacki, D.J., Fishman, G.A.: Light adaptation, rods, and the human cone flicker ERG. *Visual Neuroscience*, 8:145-150, 1992.
154. Alexander, K.R., Fishman, G.A., Peachey, N.S., Marchese, A.L., Tso, M.O.M.: On response defect in paraneoplastic night blindness with cutaneous malignant melanoma. *Investigative Ophthalmology and Visual Science*, 33:477-483, 1992.
155. Fishman, G.A., Stone, E.M., Gilbert, L.D., Sheffield, V.C.: Ocular findings associated with a rhodopsin gene codon 106 mutation: glycine to arginine change in dominant retinitis pigmentosa. *Arch Ophthalmol*, 110:646-653, 1992.
156. Alexander, K.R., Derlacki, D.J., Fishman, G.A.: Contrast thresholds for letter identification in retinitis pigmentosa. *Investigative Ophthalmology and Visual Science*, 33:1846-1852, 1992.
157. Peachey, N.S., Alexander, K.R., Derlacki, D.J., Fishman, G.A.: Light adaptation and the luminance-response function of the cone electroretinogram. *Documenta Ophthalmologica*, 79:363-369, 1992.
158. Loeffler, K.U., Li, Z-L., Fishman, G.A., Tso, M.O.M.: Dominantly inherited cystoid macular edema: A histopathologic study. *Ophthalmology*, 99:1385-1392, 1992.
159. Alexander, K.R., Derlacki, D.J., Fishman, G.A., Szlyk, J.P.: Grating, vernier, and letter acuity in retinitis pigmentosa. *Investigative Ophthalmology and Visual Science*, 33:3400-3406, 1992.

160. Lam, B.L., Fishman, G.A., Anderson, R.J., Smith, D.A., Alexander, K.R.: The effect of mydriasis on visual field area in retinitis pigmentosa. *Ophthalmology*, 1724-1729, 1992.
161. Fishman, G.A., Vandenburg, K., Stone, E.M., Gilbert, L.D., Alexander, K.R., Kimura, A.E., Sheffield, A.E. Ocular findings associated with codon 267 and codon 190 mutations in dominant retinitis pigmentosa. *Archives of Ophthalmology*, 110:1582-1588, 1992.
162. Szlyk, J.P., Alexander, K.R., Severing, K., Fishman, G.A.: Assessment of driving performance in patients with retinitis pigmentosa. *Archives of Ophthalmology*, 110:1709-1713, 1992.
163. Ticho, B.H., Feist, R.M., Fishman, G.A.: Nondetectable electroretinogram in combined methylmalonic aciduria and homocystinuria. *Annals of Ophthalmology*, 24:180-181, 1992.
164. Szlyk, J.P., Fishman, G.A., Severing, K., Alexander, K.R., Viana, M. Evaluation of driving performance in patients with juvenile macular dystrophies. *Archives of Ophthalmology*. 111:207-212, 1993.
165. Szlyk, J.P., Fishman, G.A., Alexander, K.R., Peachey, N.S., Derlacki, D.J.: Clinical subtypes of cone-rod dystrophy. *Archives of Ophthalmology*, 111:781-788, 1993.
166. Alexander, K.R., Derlacki, D.J., Fishman, G.A., Szlyk, J.P.: Temporal properties of letter identification in retinitis pigmentosa. *Journal of the Optical Society of America, A*, 10:1631-1636, 1993.
167. Fishman, G.A., Baca, W., Alexander, K.R., Derlacki, D.J., Glenn, A.M., Viana, M.: Visual acuity in patients with Best vitelliform macular dystrophy. *Ophthalmology*, 100:1665-1670, 1993.
168. Fishman G.A., Glenn, A.M., Gilbert, L.D.: Rebound of macular edema with continued use of methazolamide in patients with retinitis pigmentosa. *Archives of Ophthalmology*, 111:1640-1646, 1993.
169. Bascom, R.A., Liu, L., Humphries, P., Fishman, G.A., Murray, J.C., McInnes, R.R.: Polymorphisms and rare sequence variants at the ROM1 locus. *Human Molecular Genetics*. 2:1975-1977, 1993.
170. Fishman, G.A., Gilbert, L.D., Anderson, R.J., Marmor, M.F., Weleber, R.G., Viana, M.A.G.: Effect of methazolamide on chronic macular edema in patients with retinitis pigmentosa. *Ophthalmology*. 101:687-693, 1994.

171. Glenn, A.M., Fishman, G.A., Gilbert, L.D., Derlacki, D.J.: Effect of vitamin A treatment on the prolongation of dark adaptation in Stargardt's dystrophy. *Retina*, 14:27-30, 1994.
172. Baca, W., Fishman, G.A., Alexander, K.R., Glenn, A.M.: Dark adaptation in patients with Best vitelliform macular dystrophy. *British Journal of Ophthalmology*, 78:430-432, 1994.
173. Shahidi, M., Fishman, G.A., Ogura, Y., Ambroz, K., Zeimer, R.: Foveal thickening in retinitis pigmentosa patients with cystoid macular edema. *Retina*, 14:243-247, 1994.
174. Fishman, G.A., Stone, E., Gilbert, L.D., Vandenburg, K., Sheffield, V.C., Heckenlively, J.R.: Clinical features of a previously undescribed codon 216 (proline to serine) mutation in the peripherin/retinal degeneration slow gene in autosomal dominant retinitis pigmentosa. *Ophthalmology*, 101:1409-1421, 1994.
175. Fishman, G.A., Lam, B.L., Anderson, R.J.: Racial differences in the prevalence of atrophic-appearing macular lesions between black and white patients with retinitis pigmentosa. *American Journal of Ophthalmology*, 118:33-38, 1994.
176. Roux, A.F., Rommens, J., McDowell, C., Anson-Cartwright, L., Bell, S., Schappert, K., Fishman, G.A., Musarella, M. Identification of a gene from Xp21 with similarity to the TCTEX-1 gene of the murine t complex. *Human Molecular Genetics*, 3:257-263, 1994.
177. Fishman, G.A., Pulluru, P., Alexander, K.R., Derlacki, D.J., Gilbert, L.D. Prolonged rod dark adaptation in patients with cone-rod dystrophy. *American Journal of Ophthalmology*, 118:362-367, 1994.
178. Alexander, K.R., Derlacki, DJ, Fishman, G.A. Visual acuity vs letter contrast sensitivity in retinitis pigmentosa. *Vision Research*, 35:1495-1499, 1995.
179. Fishman, G.A., Anderson, R.J., Lam, B.L., Derlacki, D.J. Prevalence of foveal lesions in type 1 and type 2 Usher's syndrome. *Archives of Ophthalmology*, 113:770-773, 1995.
180. Fishman, G.A.: Alex E. Krill: A brief biography of his life and final days. *Documenta Ophthalmologica*, 89:93-100, 1995.
181. Alvi, N.P., Fishman, G.A.: Granulomatous anterior uveitis presenting with acute posterior multifocal placoid pigment epitheliopathy. *Documenta Ophthalmologica*, 89:347-353, 1995.

182. Szlyk, J.P., Pizzimenti, C.E., Fishman, G.A., Kelsch, R., Wetzel, L.C., Kagan, S., Ho, K.: A comparison of driving in older subjects with and without age-related macular degeneration. *Archives of Ophthalmology*, 113:1033-1040, 1995.
183. Fishman, G.A., Alexander, K.R., Milam, A.H., Derlacki, D.J.: Acquired unilateral night blindness associated with a negative electroretinogram waveform. *Ophthalmology*, 103:96-104, 1996.
184. Shah, M.B., Fishman, G.A., Alexander, K.R., Viana, M. Stereoacuity testing in patients with retinal and optic nerve disorders. *Documenta Ophthalmologica*, 91:265-271, 1996.
185. Edwards A., Grover, S., Fishman, G.A.: Frequency of photographically apparent optic disc and parapapillary nerve fiber layer drusen in Usher syndrome. *Retina*, 16:388-392, 1996.
186. Grover, S., Fishman, G.A., Alexander, K.R., Anderson, R.J., Derlacki, D.J.: Visual acuity impairment in patients with retinitis pigmentosa. *Ophthalmology*, 103:1593-1600, 1996.
187. Alexander, K.R., Fishman, G.A., Swinfard, R.W., Misfeldt, M.L., Milam, A.H.: Sinclair swine with spontaneously regressing cutaneous melanomas do not have autoantibodies against retinal bipolar cells. *Experimental Eye Research*, 63:347-349, 1996.
188. Alexander, K.R., Fishman, G.A., Derlacki, D.J.: Intraocular light scatter in patients with retinitis pigmentosa. *Vision Research*, 36:3703-3709, 1996.
189. Szlyk, J.P., Fishman, G.A., Alexander, K.R., Revelins, B.I., Derlacki, D.J., Anderson, R.J.: Relationship between difficulty in performing daily activities and clinical measures of visual function in patients with retinitis pigmentosa. *Archives of Ophthalmology*, 113:53-59, 1997.
190. Grover, S., Fishman, G.A., Brown, J.: Frequency of optic disc or parapapillary nerve fiber layer drusen in retinitis pigmentosa. *Ophthalmology*, 104:295-298, 1997.
191. Fishman, G.A., Stone, E.M., Alexander, K.R., Gilbert, L.D., Derlacki, D.J., Butler, N.S.: Serine-27-Phenylalanine mutation within the peripherin/RDS gene in a family with cone dystrophy. *Ophthalmology*, 104:299-306, 1997.
192. Grover, S., Fishman, G.A., Anderson, R.J., Alexander, K.R., Derlacki, D.J.: Rate of visual field loss in retinitis pigmentosa. *Ophthalmology*, 104:460-465, 1997.

193. Grover, S., Fishman, G.A., Gilbert, L.D., Anderson, R.J.: Reproducibility of visual acuity measurements in patients with retinitis pigmentosa. *Retina*, 17:33-37, 1997.
194. Grover, S., Fishman, G.A., Fiscella, R.G., Adelman, A.E.: Efficacy of dorzolamide hydrochloride in the management of chronic cystoid macular edema in patients with retinitis pigmentosa. *Retina*, 17:222-231, 1997.
195. Kellner, U., Weleber, R.G., Kennaway, N.G., Fishman, G.A., Forester, M.H.: Gyrate atrophy-like phenotype with normal plasma ornithine. *Retina*, 17:403-413, 1997.
196. Buraczynska, M., Weiping, W., Fujita, R., Buraczynska, K., Phelps, E., Anréasson, S., Bennett, J., Birch, D.G., Fishman, G.A., Hoffman, D.R., Inana, G., Jacobson, S.G., Musarella, M.A., Sieving, P.A., Swaroop, A.: Spectrum of mutations in the RPGR gene that are identified in 20% of families with X-linked retinitis pigmentosa. *Am J Human Genetics*, 61:1287-1292, 1997.
197. Swain, P.K., Chen, S., Wang, Q.L., Affatigato, L.M., Coats, C.L., Brady, K.D., Fishman, G.A., Jacobson, S.G., Swaroop, A., Stone, E., Sieving, P.A., Zack, D.J.: Mutations in the cone-rod homeobox gene are associated with the cone-rod dystrophy photoreceptor degeneration. *Neuron*, 19:1329-1336, 1997.
198. Edwards, A., Fishman, G.A., Anderson, R.J., Grover, S., Derlacki, D.J.: Visual acuity and visual field impairment in Usher syndrome. *Archives of Ophthalmology*, 116:165-168, 1998.
199. Fishman, G.A., Grover, S., Buraczynska, M., Wu, W., Swaroop, A.: A new 2-base-pair deletion in the RPGR gene in an African-American family with X-linked retinitis pigmentosa. *Archives of Ophthalmology*, 116:213-218, 1998.
200. Morimura, H., Fishman, G.A., Grover, S., Fulton, A.B., Berson, E.L., Dryja, T.P.: Mutations in the RPE65 gene in patients with autosomal recessive retinitis pigmentosa or Leber congenital amaurosis. *Proc. Nat. Acad. Sci. USA*, 95:3088-3093, 1998.
201. Alexander, K.R., Derlacki, D.J., Xie, W., Fishman, G.A., Szlyk, J.P.: Discrimination of spatial displacements by patients with retinitis pigmentosa. *Vision Research*, 38:1171-1181, 1998.
202. Grover, S., Fishman, G.A., Brown, J.: Patterns of visual field progression in patients with retinitis pigmentosa. *Ophthalmology*, 105:1069-1078, 1998.
203. Szlyk, J.P., Fishman, G.A., Aslan, R.J., Grover, S.D.: Legal blindness and employment in patients with juvenile-onset macular dystrophies or achromatopsia. *Retina*, 18:360-367, 1998.

204. Grover, S., Alexander, K.R., Choi, D.M., Fishman, G.A.: Intraocular light scatter in patients with choroideremia. *Ophthalmology*, 105:1641-1645,1998.
205. Gao, Y.Q., Danciger, M., Akhmedov, N.B., Zhao, D.Y., Heckenlively, J.R., Fishman, G.A., Weleber, R.G., Jacobson, S.G., Farber, D.B.: Exon screening of the genes encoding the B- and [gamma]-subunits of cone transducin in patients with inherited retinal disease. *Molecular Vision*, 4:16-26, 1998.
206. Fishman, G.A., Grover, S., Jacobson, S.G., Alexander, K.R., Derlacki, D.J., Wu, W., Buraczynska, M., Swaroop, A.: X-linked retinitis pigmentosa in two families with a missense mutation in the RPGR gene and putative change of glycine to valine at codon 60. *Ophthalmology*, 105:2286-2296, 1998.
207. Szlyk, J.P., Fishman, G.A., Alexander, K.R., Grover, S., Revelins, B.I., Derlacki, D.J.: Difficulty in performing everyday activities in patients with juvenile macular dystrophies with a comparison to patients with retinitis pigmentosa. *British Journal of Ophthalmology*, 82:1372-1376, 1998.
208. Urayama, S., Lissoos, TW., Fishman, G.A., Grover, S., Schiano, T.D., Conjeevaram, H., Baker, A.L.: Night blindness secondary to vitamin A deficiency in a patient with bile duct strictures after liver transplantation. *Transplantation*, 66:537-539, 1998.
209. Bech-Hansen, N.T., Naylor, M.J., Maybaum, T.A., Pearce, W.G., Koop, B., Fishman, G.A., Mets, M., Musarella, M.A, Boycott, K.M.: Loss-of-function mutations in a calcium-channel  $\alpha_1$  subunit gene in Xp11.23 cause incomplete X-linked congenital stationary night blindness. *Nature Genetics*, 19:264-267, 1998
210. Fishman, G.A., Stone, E.M., Grover, S., Derlacki, D.J., Haines, H.L., Hockey, R: Variation of clinical expression in patients with Stargardt dystrophy and sequence variations in the ABCR gene. *Archives of Ophthalmology*, 117:504-510, 1999.
211. Alexander, K.R., Derlacki, D.J., Fishman, G.A.: Coherence and the judgment of spatial displacements in retinitis pigmentosa. *Vision research*, 39:2267-2274, 1999.
212. Grover, S., Fishman, G.A., Anderson, R.J., et al: Visual acuity impairment in patients with retinitis pigmentosa at age 45 years or greater. *Ophthalmology*, 106:1780-1785;1999.
213. Hiriyan, K.T., Bingham, E.L., Yashar, B., Ayyagari, R., Fishman, G.A., Small, K., Weinberg, D.V., Weleber, R.G., Lewis, R., Andreasson, S., Richards, J.E., Sieving, P.A.: Novel mutations in XLR51 causing retinoschisis, including first

- evidence of putative leader sequence change. *Human Mutation*, 14:423-427, 1999.
214. Gao, Y.Q., Danciger, M., Longmuir, R., Piriev, N.I., Zhao, D.Y., Heckenlively, J.R., Fishman, G.A., Weleber, R.G., Jacobson, S.G., Stone, E.M., Farber, D.B.: Screening of the gene encoding the alpha'-subunit of cone cGMP-PDE in patients with retinal degenerations. *Investigative Ophthalmology & Visual Science*, 40:1818-1822, 1999.
  215. Grover, S., Fishman, G.A., Anderson, R.J., Lindeman, M.: A longitudinal study of visual function in carriers of X-linked recessive retinitis pigmentosa. *Ophthalmology*, 107:386-396, 2000.
  216. Haider N.B., Jacobson, S.G., Cideciyan, A.V., Swiderski, R., Sreb, L.M., Searly, C., Beck, G., Hockey, R., Hanna, D.B., Gorman, D.B., Duhl, D., Carmi, R., Bennett, J., Weleber, R.G., Fishman, G.A., Wright, A.F., Stone, E.M., Sheffield, V.C.: Mutation of a nuclear receptor gene, NR2E3, causes enhanced S cone syndrome, a disorder of retinal cell fate. *Nature Genetics* 24:127-131, 2000.
  217. Lotery, A.J., Munier, F.L, Fishman, G.A., Weleber, R.G., Jacobson, S.G., Affatigato, L.M., Nichols, B.E., Schorderet, D.F., Sheffield, V.C., Stone, E.M.: Allelic variation in the VMD2 Gene in Best disease and age-related macular degeneration. *Invest Ophthalmol Vis Sci* 41:1291-1296, 2000.
  218. Jacobson, S.G., Cideciyan, A.V., Iannaccone, A., Weleber, R.G., Fishman, G.A., Maguire, A.M., Affatigato, L.M., Bennett, J., Pierce, E.A., Danciger, M., Farber, D.B., Stone, E.M.: Disease expression of RP1 mutations causing autosomal dominant retinitis pigmentosa. *Invest Ophthalmol Vis Sci*, 41:1898-1908, 2000.
  219. Lotery, A.J., Namperumalsamy, P., Jacobson, S.G, Weleber, R.G., Fishman, G.A., Musarella, M.A. Hoyt, C.S., Heon, E., Levin, A., Jan, J., Lam, B., Carr, R.E., Franklin, A., Radha, S., Andorf, J.L., Sheffield, V.C., Stone, E.M.: Mutation analysis of 3 genes in a large group of patients affected with Leber congenital amaurosis. *Archives of Ophthalmology*, 118:538-543, 2000.
  220. Alexander, K.R., Fishman, G.A., Grover, S: Temporal frequency deficits in the electroretinogram of the cone system in X-linked retinoschisis. *Vision Res*, 40:2861-2868, 2000.
  221. Lotery, A.J., Jacobson, S.G., Fishman, G.A., Weleber, R.G., Fulton, A.B., Namperumalsamy, P., Heon, E., Levin, A.V., Grover, S., Rosenow, J.R., Kopp, K.K., Sheffield, V.C., Stone, E.M.: Mutations in the CRB1 gene cause Leber congenital amaurosis. *Archives of Ophthalmology*, 119:415-420, 2001.

222. Szlyk, J.P., Seiple, W., Fishman, G.A., Alexander, K.R., Grover, S., Mahler, C.: Perceived and actual performance of daily tasks: Relationship to visual function tests in patients with retinitis pigmentosa. *Ophthalmology*, 108:65-75, 2001.
223. Alexander, K.R., Fishman, G.A., Barnes, C.S., Grover, S.: ON-response deficit in the electroretinogram of the cone system in X-linked retinoschisis. *Investigative Ophthalmology and Visual Sciences*, 42:453-459, 2001.
224. Alexander, K.R., Pokorny, J, Smith, V.C., Fishman, G.A.: Contrast discrimination deficits in retinitis pigmentosa are greater for stimuli that favor the magnocellular pathway. *Vision Research*, 41:671-683, 2001.
225. Guevara-Fujita, M., Fahrner, S., Buraczynska, K., Cook, J., Wheaton, D., Cortes, F., Vicencio, C., Pena, M., Fishman, G, Mintz-Hittner, H., Birch, D., Hoffman, D., Mears, A., Fujita, R., Swaroop, A.: Five novel RPGR mutations in families with X-linked retinitis pigmentosa. *Human Mutation*, 17:151, 2001.
226. Alexander, K.R., Barnes, C.S., Fishman, G.A: Origin of deficits in the flicker electroretinogram of the cone system in X-linked retinoschisis as derived from response nonlinearities. *Journal of the Optical Society of America*, 18:747-754, 2001.
227. Danciger, M., Hendrickson, J., Lyon, J., Toomes, C., McHale, J.C., Fishman, G.A., Inglehearn, C.F., Jacobson, S.G., Farber, D.B.: CORD9 a new locus for arCRD: Mapping to 8p11, Estimation of frequency, evaluation of a candidate gene. *Invest Ophthalmol and Visual Sciences*, 42:2458-2465, 2001.
228. Flynn, M.F., Fishman, G.A., Anderson, R.J., Roberts, D.K.: Retrospective longitudinal study of visual acuity change in patients with retinitis pigmentosa. *Retina*, 21:639-646, 2001.
229. Alexander, K.R., Barnes, C.S., Fishman, G.A.: High-Frequency Attenuation of the cone ERG and ON-response deficits in X-linked retinoschisis. *Investigative Ophthalmology & Visual Science*, 42:2094-2101, 2001.
230. Webster, A.R., Heon, E., Lotery, A.J., Vandenburg, K., Casavant, T.L., Oh, K.T., Beck, G., Fishman, G.A., Lam, B.L., Levin, A., Heckenlively, J.R., Jacobson, S.G., Weleber, R.G., Sheffield, V.C., Stone, E.M. An analysis of allelic variation in the ABCA4 gene. *Investigative Ophthalmology& Visual Science*, 42:1179-1189, 2001.
231. Borkowski, L.M., Grover, S., Fishman, G.A., Jampol, L.: Retinal findings in melanoma-associated retinopathy. *Am J Ophthalmol*, 132:273-275, 2001.

232. Rivolta, C., Peck, N.E., Fulton, A.B., Fishman, G.A., Berson, E.L., Dryja, T.P.: Novel frameshift mutations in CRX associated with Leber congenital amaurosis. *Human Mutation*, 18:550-551, 2001.
233. Grover, S., Alexander, K.R., Fishman, G.A., Ryan, J.: Comparison of intraocular light scatter in carriers of choroideremia and X-linked retinitis pigmentosa. *Ophthalmology*, 109:159-163, 2002.
234. Barnes, C.S., Alexander, K.R., Fishman, G.A.: A distinctive form of congenital stationary night blindness with cone ON-pathway dysfunction. *Ophthalmology*, 109:575-583, 2002.
235. Vajaranant, T.S., Seiple, W., Szlyk, J.P., Fishman, G.A.: Detection using multifocal electroretinogram of mosaic retinal dysfunction in carriers of X-linked retinitis pigmentosa. *Ophthalmology*, 109:560-568, 2002.
236. Alexander, K.R., Barnes, C.S., Fishman, G.A., Milam, A.H.: Nature of the cone ON-pathway dysfunction in melanoma-associated retinopathy. *Investigative Ophthalmology & Visual Science*, 43:1189-97, 2002.
237. Grover, S., Fishman, G.A., Stone, E.M.: Atypical presentation of pattern dystrophy in two families with peripherin/RDS mutations. *Ophthalmology*, 109:1110-1117, 2002.
238. Breuer, D.K., Yashar, B.M., Filippova, E., Hiriyanna, S., Lyons, R.H., Mears, A.J., Asaye, B., Acar, C., Vervoort, R., Wright, A.F., Musarella, M.A., Wheeler, P., MacDonald, I., Iannaccone, A., Birch, D., Hoffman, D.R., Fishman, G.A., Heckenlively, J.R., Jacobson, S.G., Sieving, P.A., Swaroop, A.: A comprehensive mutation analysis of RP2 and RPGR in a North American cohort of families with X-linked retinitis pigmentosa. *American Journal of Human Genetics*, 70:1545-1554, 2002.
239. Roberts, M.F., Fishman, G.A., Roberts, D.K., Heckenlively, J.R., Weleber, R.G.: Retrospective, longitudinal, and cross-sectional study of visual acuity impairment in choroideremia. *Br J Ophthalmol* 86:658-662, 2002.
240. Sharon, D., Yamamoto, H., McGee, T.L., Rabe, V., Szerencsei, R.T., Winkfein, R.D., Prinsen, C.F.M., Barnes, C.S., Andreasson, S., Fishman, G.A., Schnetkamp, P.P.M., Berson, E.L., Dryja, T.P.: Mutated alleles of the rod and cone Na-Ca-K-exchanger genes in patients with retinal diseases. *Investigative Ophthalmology & Visual Science*, 43:1971-1979, 2002.
241. Koenekoop, K., Fishman, G.A., Iannaccone, A., Ezzeddin, H., Ciccarelli, M.L., Baldi, A., Socinness, J.S., Lotery, A.J., Jablonski, M.M., Pittler, S.J., Maumenee, I.: Electroretinographic abnormalities in parents of patients with Leber congenital

- amaurosis who have heterozygous GUCY2D mutations. *Archives of Ophthalmology*, 120:1325-1330, 2002.
242. Vajaranant, T.S., Szlyk, J.P., Fishman, G.A., Gieser, J.P., Seiple, W.: Localized retinal dysfunction in central serous chorioretinopathy as measured using the multifocal electroretinogram. *Ophthalmology*, 109:1243-1250, 2002.
243. Fishman G.A., Stone, E.M., Eliason, D.A., Taylor, C.M., Lindeman, M., Derlacki, D.J.: ABCA4 gene sequence variations in patients with autosomal recessive cone-rod dystrophy. *Archives of Ophthalmology*, 121:851-855, 2003.
244. Rotenstreich, Y., Fishman, G.A., Anderson, R.J.: Visual acuity loss and clinical observations in a large series of patients with Stargardt disease. *Ophthalmology*, 110:1151-1158, 2003.
245. Grover, S., Fishman, G.A., Birch, D.G., Locke, K.G., Rosner, B.: Variability of full-field electroretinogram responses in subjects without diffuse photoreceptor cell disease. *Ophthalmology*, 110:1159-1163, 2003.
246. Alexander, K.R., Barnes, C.S., Fishman, G.A.: Deficits in temporal integration for contrast processing in retinitis pigmentosa. *Investigative Ophthalmology & Visual Science*, 44:3163-3169, 2003.
247. Fishman, G.A.: When your eyes have a wet nose: The evolution of the use of guide dogs and establishing The Seeing Eye. *Survey of Ophthalmology*, 48:452-458, 2003.
248. Oh, K.T., Longmuir, R., Oh, D.M., Stone, E.M., Kopp, K., Brown, J., Fishman, G.A., Sonkin, P., Gehrs, K.M., Weleber, R.G.: Comparison of the clinical expression of retinitis pigmentosa associated with rhodopsin mutations at codon 357 and codon 23. *American Journal of Ophthalmology*, 136:306-313, 2003.
249. Alexander, K.R., Barnes, C.S., Fishman, G.A.: ON-pathway dysfunction and timing properties of the flicker ERG in carriers of X-linked retinitis pigmentosa. *Investigative Ophthalmology & Visual Sciences*, 44:4017-4025, 2003.
250. Rotenstreich, Y., Fishman, G.A., Anderson, R.J., Birch, D.G.: Interocular amplitude differences of the full field electroretinogram in normal subjects. *British Journal of Ophthalmology*, 87:1268-1271, 2003.
251. Alexander, K.R., Barnes, C.S., Fishman, G.A., Pokorny, J., Smith, V.C.: Contrast-processing deficits in melanoma-associated retinopathy. *Investigative Ophthalmology & Visual Sciences*, 45:305-310, 2004.
252. Fishman, G.A., Roberts, M.F., Derlacki, D.J., Grimsby, J.L., Yamamoto, H., Sharon, D., Nishiguchi, K.M., Dryja, T.P.: Novel mutations in the cellular

- retinaldehyde-binding protein gene (RLBP1) associated with retinitis punctata albescens. *Archives of Ophthalmology*, 122:70-75, 2004.
253. Rotenstreich, Y, Fishman, G.A., Lindeman, M, Alexander, K.R.: The application of chromatic dark-adapted kinetic perimetry to retinal diseases. *Ophthalmology*, 111:1222-1227, 2004.
  254. Kang Derwent, JJ, Derlacki, DJ, Hetling, JR, Fishman, G.A., Birch, DG, Grover, S, Stone, EM, Pepperberg, DR: Dark adaptation of rod photoreceptors in normal subjects and in patients with Stargardt disease and an *ABCA4* mutation. *Invest Ophthalmology & Visual Sciences*, 45:2447-2456, 2004.
  255. Alexander, KR, Barnes, CS, Fishman, GA, Pokorny, J, Smith, VC: Contrast sensitivity deficits in inferred magnocellular and paracellular pathways in retinitis pigmentosa. *Investigative Ophthalmology & Visual Sciences*, 45:4510-4519, 2004.
  256. Apushkin, MA, Fishman, GA, Janowicz, MJ: Monitoring cystoid macular edema by optical coherence tomography in patients with retinitis pigmentosa. *Ophthalmology*, 111:1899-1904, 2004.
  257. Grover, S, Fishman, GA, Stone, EM: A novel *IMPDH1* mutation (ARG231PRO) in a family with a severe form of autosomal dominant retinitis pigmentosa. *Ophthalmology*, 111:1910-1916, 2004.
  258. Sharma, M.C., Fishman, G.A.: Best dystrophy in a patient with an ocular histoplasmosis phenotype. *Retina*, 24:799-801, 2004.
  259. Piri, N., Qing Gao, Y., Dancinger, M., Mendoza, E., Fishman, G.A., Farber, D.B.: A substitution of G to C in the cone cGMP-phosphodiesterase gamma subunit gene found in a distinctive form of cone dystrophy. *Ophthalmology*, 112:159-166, 2005.
  260. Galvin, JA, Fishman, GA, Stone, EM, Koenekoop, RK: Clinical phenotypes in carriers for Leber congenital amaurosis mutations. *Ophthalmology*, 112:349-356, 2005.
  261. Apushkin, MA, Fishman, GA, Janowicz, MJ: Correlation of optical coherence tomography findings with visual acuity and macular lesions in patients with X-linked retinoschisis. *Ophthalmology* 112:495-501, 2005.
  262. Alexander K.R., Barnes, C.S., Fishman, G.A.: Characteristics of contrast processing deficits in X-linked retinoschisis. *Vision Research*, 45:2095-2107, 2005.

263. Dryja, T.P., McGee, T.L., Berson, E.L., Fishman, G.A., Sandberg, M.A., Alexander, K.R., Derlacki, D.J., Rajagopalan, A.S.: Night blindness and abnormal cone electroretinogram ON responses in patients with mutations in the GRM6 gene encoding mGluR6. *Proceedings of the National Academy of Sciences*, 102:4884-4889, 2005.
264. Apushkin, M.A., Fishman, G.A., Rajogopalan, A.S.: Fundus findings and longitudinal study of visual acuity loss in patients with X-linked retinoschisis. *Retina*, 25:612-618, 2005.
265. Apushkin, M.A., Fishman, G.A.: Improvement in visual function and fundus findings in a patient with vitamin A deficient retinopathy. *Retina*, 25:650-652, 2005.
266. Francis, P.J., Fishman, G.A., Trzupke, K.M., MacDonald, I.M., Stone, E.M., Weleber, R.G.: Stop mutations in exon 6 of the choroideremia gene *CHM*, associated with preservation of the electroretinogram. *Archives of Ophthalmology*, 123:1146-1148, 2005.
267. Alexander, K.R., Rajagopalan, A.S., Seiple, W., Zemon, V.M., Fishman, G.A.: Contrast response properties of magnocellular and parvocellular pathways in retinitis pigmentosa assessed by the visual evoked potential. *Investigative Ophthalmology & Visual Sciences*, 46:2967-2973, 2005.
268. Bonilha, V.L., Grover, S., Fishman, G.A., Hollyfield, J.G.: Abnormal distribution of red/green cone opsins in a patient with an autosomal dominant cone dystrophy. *Ophthalmic Genetics*, 26:69-76, 2005.
269. Fishman, G.A., Jacobson, S.G., Alexander, K.R., Cideciyan, A.V., Birch, D.G., Weleber, R.G., Hood, D.C.: Outcome measures and their application in clinical trials for retinal degenerative diseases. *Retina*, 25:772-777, 2005.
270. Galvin, J.A., Fishman, G.A., Stone, E.M., Koenekoop, R.K.: Genotype-phenotype associations in Leber congenital amaurosis. *Retina*, 25:919-929, 2005.
271. Fishman, G.A., Chappelow, A.V., Anderson, R.J., Rotenstreich, Y., Derlacki, D.J.: Short-term intervisit variability of ERG amplitudes in normal subjects and patients with retinitis pigmentosa. *Retina*, 25:1014-1021, 2005.
272. Seiple, W., Szlyk, J.P., McMahon T., Pulido, J.S., Fishman, G.A.: Eye movement training for reading in patients with age-related macular degeneration. *Investigative Ophthalmology & Visual Science*, 46:2886-2896, 2005.
273. Shahidi, M., Yang, Y., Rajagopalan, A.S., Alexander, K.R., Zelkha, R., Fishman, G.A.: A method for differentiating ocular higher-order aberrations and light scatter in human eyes. *Optometry and Vision Science*, 82:976-980, 2005.

274. Rajagopalan, A.S., Shahidi, M., Alexander, K.R., Fishman, G.A., Zelkha, R.: Higher-order wavefront aberrations in retinitis pigmentosa. *Optometry and Vision Science*, 82:623-628, 2005.
275. Grover, S., Apushkin, M.A., Fishman, G.A.: Topical dorzolamide for the treatment of cystoid macular edema in patients with retinitis pigmentosa. *American Journal of Ophthalmology*, 141:850-858, 2006.
276. Apushkin, M.A., Fishman, G.A.: Attainment of educational levels in patients with Leber's congenital amaurosis. *Ophthalmology*, 113:481-482, 2006.
277. Apushkin, M.A., Fishman, G.A., Taylor, C.M., Stone, E.M.: Novel de novo mutation in a patient with Best macular dystrophy. *Archives of Ophthalmology*, 124, 887-889, 2006
278. Alexander, K.R., Rajagopalan, A.S., Raghuram A., Fishman, G.A.: Activation phase of cone phototransduction and the flicker electroretinogram in retinitis pigmentosa. *Vision Research*, 46:2773-2785, 2006.
279. Yzer, S., Fishman, G.A., Racine, J., Al-Zuhaibi, S., Chokor, H., Dorfman, A., Szlyk, J., Lachapelle, P., Van den Born, I., Allikmets, R., Lopez, I., Cremers, F.P.M., Koenekeop, R.K.: CRB1 heterozygotes with regional dysfunction: Implications for genetic testing of Leber congenital amaurosis. *Invest Ophthalmol & Visual Science*, 47:3736-3744, 2006.
280. Kim, L.S., Fishman, G.A.: Comparison of visual acuity loss in patients with different stages of Stargardt's disease. *Ophthalmology*, 113:1748-1751, 2006.
281. Apushkin, M.A., Fishman, G.A.: The use of dorzolamide for patients with X-linked retinoschisis. *Retina*, 26:741-745, 2006.
282. Kim, L.S., Seiple, W., Fishman, G.A., Szlyk, S.P.: Multifocal ERG findings in carriers of X-linked retinoschisis. *Documenta Ophthalmologica*, 114:21-26, 2007
283. Apushkin, M.A., Fishman, G.A.: Retinal thickness and visual thresholds measured in patients with retinitis pigmentosa. *Retina*, 27:349-57, 2007.
284. Fishman, G.A., Bozbeyoglu, S., Massof, R.W., Kimberling, W.: Natural course of visual field loss in patients with type 2 Usher syndrome. *Retina*, 27:601-608, 2007.
285. Fishman, G.A., Apushkin, M.A.: Continued use of dorzolamide for the treatment of cystoid macular oedema in patients with retinitis pigmentosa. *British Journal of Ophthalmology*, 91:743-745, 2007.

286. Bozbeyoglu, S., Fishman, G.A., Stone, E.M., MacDonald, I.M., Streb, L.: De Novo mutation in a choroideremia carrier. *Retinal Cases & Brief Reports*, 1:182-184, 2007.
287. Walia, S., Fishman, G.A., Edward, D.P., Lindeman, M.: Retinal nerve fiber layer defects in RP patients. *Investigative Ophthalmology and Visual Science*, 48:4748-4752, 2007.
288. Kim, L.S., McAnany, J.J., Alexander K.R., Fishman, G.A.: Intersession repeatability of Humphrey perimetry measurements in patients with retinitis pigmentosa. *Investigative Ophthalmology and Visual Science*, 48:4720-4724, 2007.
289. Kim, L.S., Fishman, G.A., Seiple, W.M., Szlyk, J.P., Stone, E.M.: Retinal dysfunction in carriers of Bardet-Biedl syndrome. *Ophthalmic Genetics*, 28:163-168, 2007.
290. Apushkin, M.A., Fishman, G.A., Grover, S., Janowicz, M.J.: Rebound of cystoid macular edema with continued use of acetazolamide in patients with retinitis pigmentosa. *Retina*, 27:1112-1118, 2007.
291. Hollander, A.I.D., Lopez, I., Yzer, S., Zonneveld, M.N., Janssen, I.M., Strom, T.M., Hebir-Kwa, J.Y., Veltman, J.A., Arends, M.L., Meitinger, T., Musarella, M., van den Born, L.I., Fishman, G.A., Maumenee, I.H., Robrschneider, K., Cremers, P.M., Koenekoop, R.K.: Identification of novel mutations in patients with Leber congenital amaurosis and juvenile RP by genome-wide homozygosity mapping with SNP microarrays. *Investigative Ophthalmology & Visual Science*, 48:5690-5698, 2007.
292. Kim, L.S., Alexander, K.R., Fishman, G.A.: Spontaneous improvement of rod system function in patient with melanoma-associated retinopathy. *Retinal Cases and Brief Reports*, 2:166-171, 2008.
293. Vajaranant, T.S., Fishman, G.A., Szlyk, J.P., Grant-Jordan, P., Lindeman, M., Seiple, W.: Detection of mosaic retinal dysfunction in choroideremia carriers: Electroretinographic and psychophysical testing. *Ophthalmology*, 115:723-729, 2008.
294. Walia, S., Fishman G.A., Swaroop, A., Branham K., Lindeman, M., Othman, M., Weleber, R.G.: Discordant phenotypes in fraternal twins having identical mutation in exon ORF15 of the RPGR gene. *Ophthalmology*, 126:379-384, 2008.

## REVIEW ARTICLES FOR YEAR BOOK OF OPHTHALMOLOGY

GERALD ALLEN FISHMAN, M.D.

1. Fishman, G.A.: Color Vision Testing. In Hughes, W.F. (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1973, pp. 227-231.
2. Fishman, G.A.: Hereditary Night Blindness. In Hughes, W.F.(ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1974, pp. 223-248.
3. Fishman, G.A.: Hereditary Progressive Macular Dystrophies. In Hughes, W.F.(ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1975, pp. 225-236.
4. Fishman, G.A.: Rhodopsin and Visual Excitation. In Hughes, W.F.(ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1976, pp. 229-235.
5. Fishman, G.A.: Diffuse Tapeto-Retinal Disease and Hearing Deficiency. In Hughes, W.F. (ed.): Year Book of Ophthalmology. Chicago, Yearbook Medical Publishers, 1977, pp. 219-229.
6. Fishman, G.A.: Cystoid Macular Edema. In Hughes, W.F. (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1978, pp. 221-231.
7. Fishman, G.A.: Vitreous Fluorophotometry in Retinal Disease. In Hughes, W.F. (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1979, 227-231.
8. Fishman, G.A.: Chloroquine Retinopathy. In Hughes, W.F. (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1980, pp. 223-229.
9. Fishman, G.A.: Retinitis Pigmentosa: Immunologic Modifications. In Hughes, W.F. (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1981, pp. 219-223.
10. Fishman, G.A.: Usher's Syndrome. In Ernest, J. Terry (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1982, pp. 239-245.
11. Fishman, G.A.: Potential Hazards of Light Toxicity From Ophthalmic Devices. In Ernest, J.Terry (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1983, pp. 231-240.
12. Fishman, G.A.: Pigmentary-Photoreceptor Dystrophies: Progression as Monitored by Visual Field and Electroretinogram Testing. In Ernest, J. Terry

- (ed.): Year Book of Ophthalmology. Chicago, Year Book Medical Publishers, 1984.
13. Fishman, G.A.: Light-Induced Maculopathy from Surgical Microscopes During Cataract Surgery. In Ernest, J. Terry (ed.): Year Book of Ophthalmology, Chicago, Year Book Medical Publishers, 1985.
  14. Fishman, G.A.: Genetic linkage, restriction fragment length polymorphisms, and hereditary retinal disorders. In Ernest, J. Terry (ed.): Year Book of Ophthalmology, Chicago, Year Book Medical Publishers, 1986.
  15. Fishman, G.A.: Animal models of retinal degeneration. In Ernest, J. Terry (ed.): Year Book of Ophthalmology, Chicago, Year Book Medical Publishers, 1987.
  16. Fishman, G.A.: Retinal toxicity with the use of chloroquine or hydroxychloroquine: An update. In Ernest, J. Terry (ed.): Year Book of Ophthalmology, Chicago, Year Book Medical Publishers, 1988.

## CHAPTERS IN BOOKS

### GERALD ALLEN FISHMAN, M.D.

1. Fishman, G.A.: The Value of Fluorescein Angiography in the Differential Diagnosis of Choroidal Tumors. In Peyman, G.A., Apple, D.J., and Sanders, D.R. (eds.): *Intraocular Tumors*. New York, Appleton-Century-Crofts, 1977, pp. 9-34.
2. Fishman, G.A.: Hereditary Progressive Macular Dystrophies. In Smith, J.L. (ed.): *Chapter 10, Neuro-Ophthalmology Update*. New York, Masson, 1977.
3. Peyman, G.A., Sanders, D.R., Fishman, G.A.: New and Controversial Aspects of Vitreoretinal Surgery. In McPherson, Alice (ed.): *Chapter 7, Toxicity of Intravitreal Whole Blood and Hemoglobin and Other Findings Related to Vitreous Hemorrhage*. St. Louis, C.V. Mosby, 1977, pp. 38-48.
4. Fishman, G.A.: Hereditary Retinal and Choroidal Disease: ERG and EOG findings. In Peyman, G.A., Sanders, D.R., and Goldberg, M.F. (eds.): *Principles and Practice of Ophthalmology*. Philadelphia, W.B. Saunders, 1980, pp. 857-904.
5. Fishman, G.A.: Thioridazine Hydrochloride (Mellaril) Toxic Pigmentary Chorioretinopathy. In Smith, J.L. (ed.): *Neuro-Ophthalmology Update*. New York, Masson, 1982, pp. 109-118.
6. Ripps, H., Fishman, G.A.: The Loss of Night Vision: Clinical Manifestations in Man and Animals, in *Night Vision: Basic, Clinical and Applied Aspects*, Hess RF, Sharpe LT, Nordley K, (eds.): Cambridge Press, Cambridge, 1990.
7. Fishman, GA.: Retinal toxicity with the use of chloroquine or hydroxychloroquine. In Heckenlively, J, Arden G (eds.): *Handbook of Clinical Electrophysiology of Vision Testing*, Chicago, Year Book Publishers, 1990.
8. Breuer, D.K., Affer, M., Andreasson, S., Birch, D.G., Fishman, G.A., Heckenlively, J.R., Hirianna, S., Hoffman, D.R., Jacobson, S.G., Mears, A.J., Musarella, M.A., Redolfi, E., Sieving, P.A., Wright, A.F., Yashar, B.M., Zucchi, I, Swaroop, A.: X-linked retinitis pigmentosa: Current status. In Anderson et al (ed.): *New Insights Into Retinal Degenerative Diseases*, Kluwer Academic/Plenum Publishers, 2001.

## BOOK REVIEWS

- Fishman, G.A.: General Ophthalmology, Vaughn. Asbury and Cook, Internal Medicine Digest, August 1973.
- Fishman, G.A.: Clinical Applications of Visual Psychophysics. Eds. Proenza, Enoch, Jampolsky, 1981, for Archives of Ophthalmology.
- Fishman, G.A.: Retinal and Choroidal Dystrophies. Bloome and Garcia. 1982, for Retina.
- Fishman, G.A.: Visual Electrodiagnostic Testing: A Practical Guide for the Clinician. Carr and Siegel, 1982 for Retina.
- Fishman, G.A.: Ceroid Lipofuscinosis (Batten's disease). Eds. Armstrong, Koppang, Rider, 1982, for Archives of Ophthalmology.
- Fishman, G.A.: Presurgical evaluation of Eyes with Opaque Media. Fuller and Hutton, 1983, for Retina.
- Fishman, G.A.: Parallel Processing in the Visual System. Jonathan Stone, 1983, for Archives of Ophthalmology.
- Fishman, G.A.: The Man Behind the Syndrome. Brighton and Brighton, 1986, for Retina.
- Fishman, G.A.: Inherited and Environmentally Induced Retinal Degenerations. Eds. LaVail, Anderson, and Hollyfield, 1989 for Retina.
- Fishman, G.A.: Inherited Retinal Diseases: A Diagnostic Guide. Jimenez-Sierra, Ogden, and Van Boemel, 1989, for Retina.
- Fishman, G.A.: The Vitreous: Structure, Function, and Pathobiology. J. Sebag, 1990, for Retina.
- Fishman, G.A.: Glare and Contrast Sensitivity for Clinicians. M. Princeton Nadler, David Miller, and Daniel J. Nadler, 1991, for Retina.
- Fishman, G.A., Shapiro, M.J., Resnick, K.I.: Macular Degeneration; Retinal Detachment and Vitreous Surgery; Diagnosis and Management of Diabetic Retinopathy. Howard Schatz, and H. Richard McDonald, 1990, for Retina.
- Fishman, G.A.: Principles of Medical Genetics. T.D. Gelehrter, and F.S. Collins, eds, 1992, for Retina.

- Fishman, G.A.: Dealing with Genes: The Language of Heredity. Paul Berg and Maxine Singer, 1993, for Retina.
- Fishman, G.A.: Electrodiagnostic Testing of the Visual System: A Clinical Guide. R.E. Carr and I.M. Siegel, 1993, for Retina.
- Fishman, G.A.: Atlas of Intraocular Tumors. G.E. Sandborn, J.R. Gonder, Jerry A. Shields, 1994, for Retina.
- Fishman, G.A.: Photoreceptor Cells. P.A. Hargrave, ed., 1994, for Retina.
- Fishman, G.A.: Source Book of Ophthalmology. D.A. Albert, ED. Norton, eds., 1995, for Retina.

## OTHER PUBLICATIONS

1. Fishman, G.A. Ocular Fundus in Hereditary Retinal and Choroidal Disease. In Famous Teaching in Ophthalmology, Medcom Inc., 1974.
2. Fishman, G.A. The ERG and EOG in Retinal and Choroidal Disease. Manual of American Academy of Ophthalmology and Otolaryngology, 1975.
3. Fishman, G.A. Retinitis Pigmentosa. Teaching manual and slides; written for the National Retinitis Pigmentosa Foundation, September 1976.
4. Fishman, G.A.: Transplantation of retinal pigment epithelial cells: Scientific advance and social responsibility. Archives of Ophthalmology (editorial), 106:1667-1668, 1988.
5. Marmor, M.F., Fishman, G.A.: At last: A standard electroretinography protocol. Archives of Ophthalmology (editorial), 107:813-814, 1989.
6. Fishman, G.A.: Discussion of manuscript Autosomal dominant neovascular inflammatory vitreoretinopathy (ADNIV). by Bennett, S.R., Folk, J.C., Kimura, A.E., Russell, S.R., Stone, E.M.: Ophthalmology, 97:1135-1136, 1990.
7. Fishman, G.A., Sokol S.: Electrophysiologic Testing in Disorders of the Retina, Optic Nerve, and Visual Pathway. Ophthalmology Monographs 2. American Academy of Ophthalmology, 1990.
8. Fishman, G.A., Birch, D.G., Holder, G.E., Brigell, M.G.: Electrophysiologic Testing in Disorders of the Retina, Optic Nerve, and Visual Pathway, Second Edition. Ophthalmology Monograph 2. American Academy of Ophthalmology, 2001.