**CURRICULUM VITAE**

**NAME** John Daniel Nelson, M.D., F.A.C.S. (Dan)

**EDUCATION**

**Preparatory School:** Proctor High School, Proctor, Minnesota 1964-1968

**College:** University of Minnesota, Duluth, Minnesota

1968-1972, B.S. - Chemistry, 1972

**Medical School:** University of Minnesota, Minneapolis, Minnesota.

1972-1975, M.D., 1975

**Internship:** St. Paul-Ramsey Medical Center, St. Paul, Minnesota,

1976-1977

**Residency:** University of Minnesota, Department of Ophthalmology,

1978-1981

**Corneal-External**

**Disease Anterior**

**Segment Fellowship:** University of Minnesota, Department of Ophthalmology,   
July 1981-December 1981

**PROFESSIONAL EXPERIENCE**

Short-term Volunteer Physician, Malumghat, Bangladesh, January-April, 1976

Private Practice - Red Cedar Clinic, Menomonie, Wisconsin, 1977-1978

Staff Ophthalmologist, Department of Ophthalmology, Veterans Hospital, Minneapolis, Minnesota, 1981-1982

Corneal-External Disease Service, Department of Ophthalmology, University of Minnesota, Minneapolis, Minnesota, 1982-1993

Associate Medical Director, Minnesota Lions Eye Bank, 1990-1993

Staff Ophthalmologist, Department of Ophthalmology, St. Paul-Ramsey Medical Center/Regions Hospital, St. Paul, Minnesota, 1982-1995

Interim Chairman, Department of Ophthalmology, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, 1983-July, 1984

Chairman, Department of Ophthalmology, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, July 1984-1997

Chairman, Department of Ophthalmology, Ramsey Clinic, St. Paul, Minnesota,

July 1984-1998

Clinical Director, Dry Eye and Tear Research Center, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, January 1985-present

Medical Director, School for Ophthalmic Technicians, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, January 1986-1996

Section Head, Ophthalmology Head, Regions Hospital, 1998-2000

Associate Medical Director, Surgical Specialties, HealthPartners Medical Group-   
1996-2002

Associate Medical Director, Specialty Care, HealthPartners Medical Group- 2002-2015

Senior Medical Director, Specialty Care, HealthPartners Medical Group- 2016-2017

Senior Medical Director, Physicians Neck and Back- 2015-2017

Senior Medical Director, Orthopaedic Services, HealthPartners- 2016-2017

Staff Ophthalmologist, HealthPartners Eye Care 1995-present

**ACADEMIC APPOINTMENTS**

Instructor of Ophthalmology, University of Minnesota Medical School, Minneapolis, Minnesota, 1981-1982

Assistant Professor of Ophthalmology, University of Minnesota Medical School, Minneapolis, Minnesota, 1982-1988

Associate Professor of Ophthalmology, University of Minnesota Medical School, Minneapolis, Minnesota, 1988-1998

Professor of Ophthalmology, University of Minnesota Medical School, Minneapolis, Minnesota, 1998-Present

**SPECIALTY BOARD CERTIFICATION**

American Board of Ophthalmology, December 1982 (Life Time Certification)

**HONORS AND HONOR SOCIETIES**

Eagle Scout, 1967

High School Valedictorian, 1968

Alworth Memorial Scholar, 1968-1975

B.S., Chemistry, Magna Cum Laude, 1972

Honors in Chemistry, 1972

National Science Foundation Undergraduate Research Participant, 1970-1972

Alpha Omega Alpha, 1975

Medical Assistance Program-Reader's Digest International Fellowship, 1976

Diplomat of the National Board of Medical Examiners, 1977

Physician's Recognition Award (AMA), 1979, 1983, 1985,1988, 1995, 1997

Association for Research in Vision and Ophthalmology Travel Fellowship, 1980

Outstanding Young Men of America, 1983

American College of Surgeons - Fellow, 1985

Who's Who in the Midwest, 1985, 1986, 1987

Who's Who of Emerging Leaders in America, 1987

West's Who's Who in Health and Medical Services, 1991

Who's Who in Science and Engineering, 1992

The Best Doctors in America, 1993, 1999

American Academy of Ophthalmology Honor Award, 1993

Who’s Who (Strathmore’s), 1998

HealthPartners Research Foundation Founder’s Award, 2000

Regions Foundations Achievement Award, 2005

Outstanding Achievement Award, University of Minnesota, Department of Ophthalmology, 2007

Fellow of ARVO (FARVO), 2011

**SOCIETY MEMBERSHIPS**

Association for Research in Vision and Ophthalmology (ARVO)

Contact Lens Association of Ophthalmologists (CLAO)

Minnesota Association of Ophthalmology

Minnesota Medical Association

Ramsey County Medical Society

American Association for the Advancement of Science

American College of Surgeons

American Academy of Ophthalmology

St. Paul Ophthalmology Society - Secretary/Treasurer (1984-1985), Vice President (1985-86), President (1986-87)

Eye Bank Association of America, Medical Member

American Ophthalmological Society (AOS), 1995-present

American College of Physician Executives, 1992-2017

**COMMITTEE ASSIGNMENTS**

St. Paul-Ramsey Medical Center Executive Committee, 1982-1984; 1987-1989;   
 1995- 1996

St. Paul-Ramsey Medical Center Department Head Committee, 1983-1995

St. Paul-Ramsey Medical Center Institutional Review Board, 1983-1987; Chairman,   
 1985-1987

St. Paul-Ramsey Medical Center Systems/Programs Task Force, Chairman, 1984

St. Paul-Ramsey Medical Center Product Evaluation and Assessment Committee,   
 1984-1985

St. Paul-Ramsey Medical Center Operating Room Committee, 1983-1986; 1992- 1995

St. Paul-Ramsey Medical Center Outpatient Clinic Committee, 1983-1986

St. Paul-Ramsey Medical Center Outpatient Reorganization Task Force, 1984-1985

St. Paul-Ramsey Medical Center Budget Review Committee, 1985, 1987-1989

St. Paul-Ramsey Medical Center Finance Committee-1991-1994

St. Paul-Ramsey Medical Center, Audit Committee, 1992-1994

Ramsey Clinic Finance Committee, 1985-Present, Chairman, 1987-1989

Ramsey Clinic Gerontology Task Force, 1985

Ramsey Foundation Administrative Committee, 1985-1987

Ramsey Foundation Finance Committee, 1987-present

Ramsey Foundation, Audit Committee, 1992-Present

Ramsey Foundation Project Review Committee, 1983-Present; Vice-Chair 1990-93;

Ramsey Foundation Project Review Committee, Chair 1994-1997

Ramsey Foundation Research Committee, 1988-Present; Vice-Chair, 1996-1997

Ramsey Foundation Animal Care Facility Review, 1990

Ramsey Clinic Clinical Chiefs Council, 1984-Present

Ramsey Clinic Productivity Standards Task Force, Chairman, 1986, 1987

Ramsey Clinic Role of Department Chairman Task Force, 1986

Ramsey Clinic Review Committee, 1986-1987

**COMMITTEE ASSIGNMENTS (Con’t)**

Ramsey Clinic Compensation Committee, 1987-1989

Ramsey Clinic Physician Services Task Force, 1987

Ramsey Clinic Risk Management Committee, 1988-1997

Ramsey Clinic Geriatrics Review Task Force, 1989-1990

Ramsey HealthCare, Inc., Finance Committee, 1987-1994

Ramsey HealthCare, Inc., Audit Committee, 1992-1994

Ramsey HealthCare Inc., Tort Cap Task Force, 1990

Ramsey HealthCare Inc. Executive Committee, 1993

Ramsey HealthCare, Inc., Ramsey Foundation Task Force, 1991

J.F. Perry Assurance Limited Finance Committee, 1989-1997

J.F. Perry Assurance Limited Nominating Committee, 1994-1997

HealthPartners Medical Leadership Council, 1994-1995

HealthPartners Medical Board of Governors, 1995- 1998

HealthPartners Self-Insured Retention Fund Committee, Chair, 1998-2010

HealthPartners Research Committee, Vice-Chair, 1998-2004

HealthPartners Risk Management Committee, 1998-Present

HealthPartners Medical Group Finance and Comp Committee, Chair, 2000-2006

HealthPartners Medical Group Documentation and Coding Committee,   
 Co-Chair 2000-2010

Regions Hospital Finance and Audit Committee, 2001-2009

Regions Pension Committee, 2002-2009

HealthPartners Research Foundation Finance and Audit Committee, Chair 2005-2012

HealthPartners Medical Group Compensation Committee- 2006-2017

**CORPORATE BOARDS**

Ramsey Health Care, Inc., St. Paul, Minnesota Director, 1986-1994

Ramsey Clinic, Director, 1988-1997, St. Paul, Minnesota; Vice-Chair, 1990-1997

St. Paul-Ramsey Medical Center, Director, St. Paul, Minnesota, 1991-1994

Ramsey Foundation, Director, St. Paul, Minnesota, 1991-1997

J.F. Perry Assurance Limited, Bermuda, Director, 1988-1997; President- 1993-1997

Minnesota Association of Public Teaching Hospitals, Minneapolis, Minnesota,   
 Director, 1990-1995

Regions Hospital, Director, St. Paul, Minnesota, 2001-2009

HealthPartners Research Foundation, Minneapolis, Minnesota, Director, 1998-2012

Westfields Hospital, New Richmond, Wisconsin, Director, 2000-2013

Amery Regional Medical Center, Amery Wisconsin. Director, 2014- 2015

**MISCELLANEOUS COMMITTEES**

Foundation for Health Care Review, St. Paul, MN - Cataract Surgery Guidelines Task

Force, Chairman, 1985

**MEDICAL PEER REVIEWER**

Foundation for Health Care Review - Reviewer, 1984-1988

Blue Shield and Blue Cross, 1987-1995

Northwestern National Life, 1989-1994

MedTrac 1991-1995

Minnesota Medical Association, 1994-1997

Minnesota State Human Services, 1995-1999

Minnesota Board of Medical Practice, 1994-present

**COMMUNITY SERVICE**

North Haven Church, North St. Paul, MN, Board of Elders. 2013-2015

North St. Paul Baptist Church Board, North St. Paul, Minnesota, Chairman of the Board, 1987-1992

Sjogren's Syndrome Foundation, Twin Cities Chapter - Founder and Medical Advisor,

1985-1990

National Sjogren's Syndrome Association (Local Chapter)- Medical Advisor, 1990-1998

National Sjogren's Syndrome Association (National)- Medical Advisory Board,   
1990-1997

National Sjogren's Syndrome Association (National)- Medical Advisory Board, Co-Chair

1994-1997

Hockey Coach- Forest Lake Hockey Association, 1991-1998

Sjogren’s Syndrome Foundation Board (National)- Medical Advisory Board, 1999-Present

North Haven Church, North St. Paul, MN, Board Member, 1999-2005; Chair,   
2003-2004; 2008-2010

CTI Music Ministries, Willmar, MN, Board Member and Vice-Chair, 2002-2008

DEWS (Dry Eye Work Shop Participant)- Member of Subcommittee on Treatment of Dry Eye 2006

MGD (Meibomian Gland Workshop)- Chair, Definition and Classification Subcommittee, 2007-2010

DEWS II (Dry Eye Workshop II)- Chair of overall workshop, 2015-2017

**RESEARCH INTERESTS**

1. Ocular Surface Diseases and Disorders

2. Tear Film Composition

3. Staphylococcal Blepharitis

4. Organ Culture Systems for Corneal Preservation

5. Effects of Fibronectin and Laminin on Corneal Epithelium and Endothelium

6. Tissue Culture of Corneal Epithelium and Endothelium

7. Co-Investigator in the NEI Prospective Evaluation of Radial Keratotomy (PERK)

8. Effects of Herpes Simplex Virus on Co-Cultured Corneal Epithelium and Trigeminal

9. Ganglion Neurons

1. Healon as an Artificial Tear

11. Effects of Media on Corneal Tissue Culture Systems

12. Development of a Dry Eye Animal Model

13. GAP Junctions in Corneal Epithelium

14. Impression Cytology

15. Vitamin A Deficiency in Belizian Children

16. Corneal Epithelial and Endothelial Wound Healing

17. Dry Eye and Sjögren's Syndrome

18. Lacrimal Gland Lipases

**NIH STUDY SECTIONS**

Small Business Grants Study Section, 1988-1990

VIS-A Study Section, Temporary Member, 2002-2003

**GRANT REVIEW COMMITTEES**

Ramsey Foundation Grant Review Committee, 1983- 1993, Chair, 1994-1995

Fight-For-Sight Grant Review Committee, 1996-1999

***EDITORIAL BOARDS***

The Ocular Surface, Section Editor, Clinical Science 2012-2014

The Ocular Surface. Editor in Chief, 2015- Present

***AD HOC SCIENTIFIC* REVIEWER**

Investigative Ophthalmology & Visual Science

American Journal of Ophthalmology

Ophthalmology

Cornea

The Ocular Surface

**PUBLICATIONS (Peer Reviewed Journals)**

1. Caple, R., Chen, G.M.S., Nelson, J.D.: Electrophillic Approach on Norbornene

Systems, Preferential Endo Attach of Halogens on Hindered 2-Phenylbornenes. J. Org. Chem. 1970; 36:2870.

2. Caple, R., Chen, G.M.S., Nelson, J.D.: The Addition of Butyl-Lithiums to

Renzonorbornene and 1, 4 Bihydronaphthalene 1, 4-Endo-Oxide, J. Org.

Chem. 1971; 36:2874.

3. Kuehl, D.W., Nelson, J.D., Caple, R.: The Acid Catalyzed Addition of Acetic Acid

2-Arylbornenes and 2-Arylnorbornenes. J. Org. Chem. 1973; 38:2723.

4. Waring, G.O....PERK Study Group (Nelson, J.D.): Prospective Evaluation of

Radial Keratotomy (PERK): Clinical Aspects. Ophthalmic Forum 1982;

1:30-35.

5. Nelson, J.D.: Ocular Surface Impressions Using Cellulose Acetate Filter

Material: Ocular Pemphigoid. Surv. Ophthalmol. 1982; 27:67-69.

6. Waring, G.O....PERK Study Group (Nelson, J.D.): Design Features of the

Prospective Evaluation of Radial Keratotomy (PERK) Study, in Binder PS (Ed):

Refractive Corneal Surgery: The Correction of Aphakia, Hyperopia, and

Myopia. Int. Ophthalmol. Clin. 1983; 23:145-165.

7. Nelson, J.D., Mindrup, E.A., Chung, C.K., Lindstrom, R.L., Doughman, D.J.:

Fungal Contamination in Organ Culture. Arch. Ophthalmol. 1983;101:280-283.

8. Nelson, J.D., Havener, V.R., Cameron, J.D.: Cellulose Acetate Impressions of

the Ocular Surface: Dry Eye States. Arch. Ophthalmol. 1983; 101:1869-1872.

9. Lindstrom, R.L., Nelson, J.D., Neist, R.L.: Anterior Chamber Lens Subluxation

Through a Basal Peripheral Iridectomy. Am. Intraocular Implant Soc. J. 1983;

9:53-56.

10. Waring, G.O....PERK Study Group (Nelson, J.D.): Rationale for and the Design

of The National Eye Institute Prospective Evaluation of Radial Keratotomy

(PERK) Study. Ophthalmology 1983; 90:40-58.

11. Nelson, J.D., Lange, D.B., Lindstrom, R.L., Doughman, D.J., Hatchell, D.L.:

MK-Media Shifted Corneas. Arch. Ophthalmol. 1984; 102:308-311.

12. Nelson, J.D., Wright, J.C.: Goblet Cell Densities in Ocular Surface Disease.

Arch. Ophthalmol. 1984; 102:1049-1051.

**PUBLICATIONS (Con’t)**

13. PERK Study Group, (Nelson, J.D.,): Psychosocial Characteristics of Candidates

for the Prospective Evaluation of Radial Keratotomy (PERK) Study. Arch.

Ophthalmol. 1984; 102:1187-1192.

14. Smith, G.S., Lindstrom, R.L., Nelson, J.D., Weiss, J.L., Doughman, D.J.:

Complications of Soft Contact Lens Use Following Penetrating

Keratoplasty. Cornea 1984; 3:131-134.

15. Forbes, D.J., Pozos, R.S., Nelson, J.D., Lima, P.H.: Characterization of Rat

Corneal Epithelium Manifested in Tissue Cultures. Curr. Eye Res. 1984;

3:1471-1479.

16. Weiss, J.L., Nelson, J.D., Lindstrom, R.L., Doughman, D.J.: Bacterial

Endophthalmitis Following Penetrating Keratoplasty Suture Removal. Cornea

1984-1985, 3:278-280.

17. Nelson, J.D., Williams, P., Lindstrom, R.L., Doughman, D.J.: Map-Fingerprint-

Dot Changes in the Corneal Epithelial Basement Membrane Following Radial

Keratotomy. Ophthalmology 1985; 92:199-204.

18. Waring, G.O., Lynn, M.J., Nelson, J.D.: Results of the Prospective Evaluation of

Radial Keratotomy (PERK) Study One Year After Surgery. Ophthalmology 1985;

92:177-198.

19. Nelson, J.D.: Treatment of Keratoconjunctivitis Sicca (Correspondence) Arch.

Ophthalmol. 1985; 103:1630-1630.

20. Waring, G.O., PERK Study Group (Nelson, J.D.): Summary of Initial Results of

the Prospective Evaluation of Radial Keratotomy (PERK) Study. Ophthalmic

Forum 1985; Volume 3.

21. Lund, G., Wirtschafter, J.D., Nelson, J.D., Williams, P.A.: The Tattooing of

Eyelids: Magnetic Resonance Imaging Artifacts. Ophthalmic Surg. 1986;

17:560-564.

22. Nelson, J.D., Wright, J.C.: Tear Film Osmolality Determination: An Evaluation.

Curr. Eye Res. 1986; 5:677-681.

23. Bourque, L.B., PERK Study Group, (Nelson, J.D.): Reported Satisfaction:

Fluctuation of Vision and Glare Among Patients One Year After Surgery in the

Prospective Evaluation of Radial Keratotomy (PERK) Study. Arch. Ophthalmol. 1986; 104:356-363.

**PUBLICATIONS (Con’t)**

24. Davis, R.M., Miller, R.A., Lindstrom, R.L., Doughman, D.J., Nelson, J.D.: Corneal

Iron Lines After Radial Keratotomy. J. Refract. Surg. 1986; 2:174-178.

25. Waring, G.O..., Nelson, J.D., PERK Study Group: Summary of Short Term

Results of the PERK Study, Pakistan J. of Ophthalmol. 1986; 2:2.

26. Forbes, D.J., Pozos, R.S., Nelson, J.D.: Co-Culture of Rat Trigeminal Ganglion

Neurons and Corneal Epithelium. Curr. Eye Res. 1987; 6:507-514.

27. Nelson, J.D., Kopietz, L.A.: Chemical Injuries to the Eyes. Post Grad. Med.

1987; 81:62-75.

28. Nelson, J.D.: Corneal Abrasion from a Unit-Dose Artificial Tear Container. Am.

J. Ophthalmol. 1987; 103:333-334.

29. Lynn, J.L., PERK Study Group (Nelson, J.D.): Factors Affecting Outcome and

Predictability of Radial Keratotomy in the PERK Study. Arch. Ophthalmol. 1987;

105:42-51.

30. Santos, V.R., PERK Study Group (Nelson, J.D.): Relationship Between

Refractive Error and Visual Acuity in the Prospective Evaluation of Radial

Keratotomy (PERK) Study. Arch. Ophthalmol. 1987; 105:86-92.

31. Cowden, J.W., PERK Study Group (Nelson, J.D.): Repeated Radial Keratotomy

in the Prospective Evaluation of Radial Keratotomy Study. Am. J. Ophthalmol.

1987; 103:423-431.

32. Spigelman, A.V., Doughman, D.J., Lindstrom, R.L., Nelson, J.D.: Vision Loss

Following Suture Removal Post Keratoplasty. Cornea 1988; 7:214-217.

33. Nelson, J.D.: Impression Cytology. Cornea 1988; 7:71-81.

34. Doughman, J.D., Falk, S., Mindrup, Elizabeth, Lindstrom, R.L., Nelson, J.D.,

Skelnik, D.: "Minnesota Corneal Storage System: 34°c Organ Culture" in the

Cornea - Transactions of the World Congress on the Cornea III, Cavanaugh,

H.D., (Ed.), Raven Press, New York, NY, 1988, pps. 91-97.

35. Waring, G.O....PERK Study Group (Nelson, J.D.): Three Year Results of The

Prospective Evaluation of Radial Keratotomy (PERK) Study. Ophthalmology,

1987; 94:1339-1354.

36. Farris, R.L., Gilbard, J.P., Lamberts, D.W., Nelson, J.D.: Punctal Occlusion for

the Dry Eye. Ophthalmic Procedures Recommendations. American Academy

of Ophthalmology, 1987.

**PUBLICATIONS (Con’t)**

37. Nelson, J.D., Farris, R.L.: An Evaluation of Sodium Hyaluronate and Polyvinyl

Alcohol in Keratoconjunctivitis sicca. Arch. Ophthalmol. 1988; 106:484-487.

38. Rowsey, J.J., ...PERK Study Group (Nelson, J.D.,): Accuracy and reproducibility of

measurement analysis in PERK corneal topography. Curr. Eye Res. 1989; 8:661-674.

39. Rowsey, J.J., ....PERK Study Group (Nelson, J.D.): Prospective Evaluation of

Radial Keratotomy: Photokeratoscope Corneal Topography. Ophthalmology

1988; 95:322-334.

40. Cartwright, C.S., ...PERK Study Group (Nelson, J.D.): Relationship of Glare to

Uncorrected Visual Acuity and Cycloplegic Refraction 1 Year After Radial

Keratotomy in the Prospective Evaluation of Radial Keratotomy (PERK) Study.

J. Am. Optometric Assoc. 1988; 59:36-39.

41. Nelson, J.D.: Superior Limbic Keratoconjunctivitis (SLK). Eye 1989; 3:180-198.

42. Nelson, J.D.: The Dry Eye. Post Grad. Med. 1989; 85:38-55.

43. Lynn, M.J., ...Nelson, J.D., PERK Study Group: Symmetry of Refractive and

Visual Acuity Outcome in the Prospective Evaluation of Radial Keratotomy

(PERK) Study. Refract. Corneal Surg. 1989; 5:75-81.

44. Waring, G.O.,...Perk Study Group (Nelson, J.D.): Results of the Prospective Evaluation of Radial Keratotomy (PERK) Study 4 Years After Surgery for Myopia. JAMA 1990; 263:1083-1091.

45. Nelson, J.D., Silverman, V., Lima, P., Anderson-Beckman, G.: Corneal Epithelial Wound Healing: A Tissue Culture Assay on the Effects of Antibiotics. Curr. Eye Res. 1990; 9:277-285.

46. Rowsey, J.J., ..., Nelson, J.D., and the Perk Study Group: Corneal Topography as a predictor of refractive change in the Prospective Evaluation of Radial Keratotomy PERK Study. Ophthalmic Surg. 1991; 22:370-380.

47. Waring, G.O. III,...Nelson, J.D., Perk Study Group: Results of the Prospective Evaluation of Radial Keratotomy (PERK) Study 5 Years After Surgery. Ophthalmology

1991; 98:1164-1176.

1. Hardten, D.R., Holland, E.J., Doughman, D.J., Nelson, J.D.: Early Postkeratoplasty Astigmatism Following Placement of Anterior Chamber Lenses and Transsclerally Sutured Posterior Chamber Lenses. CLAO J. 1992; 18:108-111.

**PUBLICATIONS (Con’t)**

49. Nelson, J.D., Gordon, J.F., Chiron KCS Group: Topical Fibronectin in the Treatment of Keratoconjuntivitis Sicca. Am. J. Ophthalmol. 1992; 114:441-447

50. Hardten, D.R., Holland, E.J., Doughman, D.J., Nelson, J.D.: Clinical and Anatomical Study of the Effect of Transscleral Fixation of Posterior Chamber Lenses on Post- keratoplasty astigmatism. Cornea 1993; 12:282-288.

51. Vold, S.D., Carroll, R.P., Nelson, J.D.: Dermatochalasis and Dry Eye: A Surgically- Treatable Syndrome. Am. J. Ophthalmol. 1993; 115:216-220.

52. Hardten, D.R., Lima, P.H., Schmidt, B.J., Nelson, J.D.: *In Vitro* Evaluation of the Effects of Metronidazole on Rabbit Corneal Epithelial Cells. Cornea 1994; 13: 259-263.

53. Crow, J.M., Agapitos, P.J., Lima, P.H., Nelson, J.D: Effects of Insulin and EGF on Rabbit Corneal Endothelium: A Flow Cytometric Study. Invest. Ophthalmol. Vis. Sci. 1994; 35:128-133.

54. Bourque, L.B., Lynn, M.J., ..., Nelson, J.D.: Spectacle and Contact Lens Wearing Six Years after Radial Keratotomy in the Prospective Evaluation of Radial Keratotomy Study. Ophthalmol. 1994; 101:421-431.

55. Waring, G.O, Lynn, M.J., McDonnell, P.J. and the PERK Study Group (Nelson, J.D.): Results of the Prospective Evaluation of Radial Keratotomy (PERK) Study 10 Years After Surgery. Arch. Ophthalmol. 1994; 112:1298-1308.

56. Lemp, M.A., Nelson, J.D., Bron, A.J., Ederer, F.: Report of the National Eye Institute/Industry Workshop on Clinical Trials in Dry Eyes. CLAO J. 1995; 21:221-232.

57. Nelson, J.D.: Simultaneous Evaluation of Tear Turnover and Corneal Epithelial

Permeability By Fluorophotometry in Normal Subjects and Patients with Keratoconjunctivitis Sicca (KCS). Trans. Am. Ophthalmol. Soc. 1995; 93:709-753.

58. Nelson, J.D.: Dry Eye: Etiology, Diagnosis, and Management. Pharmacology Times 1996; 62:66-78.

1. Nelson, J.D.: Dry Eye (editorial). Br. J. Ophthalmol. 1997; 81:426.
2. Nelson, J.D.: Much More Than Water (editorial). Br. J. Ophthalmol. 1999; 83: 384-385
3. Remington, S.G., Lima, P.H., Nelson, J.D.: Pancreatic Lipase-Related Protein 1 (PLRP1) mRNA in Female Mouse Lacrimal Gland. Invest. Ophthal. Vis. Sci. 1999; 40:1081-1090.

**PUBLICATIONS (Con’t)**

1. Nelson, J.D., Helms, H., Fiscella, R., Southwell, Y., Hirsch, J.D.: A New Look at Dry Eye Disease and Its Treatment. Advances in Therapy 2000; 17:84-93.
2. Sall, K.,…the CsA Phase 3 Study Group (Nelson, J.D.): Two Multicenter, Randomized Studies of the Efficacy and Safety of Cyclosporine Ophthalmic Emulsion in Moderate to Severe Dry Eye Disease. Ophthalmol. 2000; 107:631-639.
3. Remington, S.G., Nelson, J.D.: mRNA Encoding of a New Lipolytic Enzyme Expressed in Rabbit Lacrimal Glands. Invest. Ophthal. Vis. Sci. 2002; 43:3617-3624.
4. Begley, C.G., Chalmers, R.L., Abetz, L., Venkataraman, K,Mertzanis, P., Caffery, B.A., Snyder, C. Edrington, T., Nelson, D., Simpson, T.: The Relationship between Habitual Patient-Reported Symptoms and Clinical Signs Among Patients with Dry Eye of Varying Severity. Invest. Ophthal. Vis. Sci. 2003; 44:4753-4761.
5. Remington, S.G., Nelson, J.D.: Secretoglobins: Sexually Dimorphic Expression of Androgen-Binding Protein mRNA in Mouse Lacrimal Glands. Invest Ophthal Vis Sci 2005; 46:31-38.
6. Mertzanis, P., Abetz, L., Rajagopalan, K., Espindle, D., Chalmers, R., Snyder, C., Caffery, B., Edrington, T., Simpson, T., Nelson, J. D., Begeley, C.: The Relative Burden of Dry Eye in Patient’s Lives: Comparisons to a U.S. Normative Sample. Invest. Ophthal. Vis. Sci. 2005; 46:46-50.
7. Chalmers R.L., Begley C.G., Edrington T., Caffery B., Nelson D., Snyder D., Simpson T.  The agreement between self-assessment and clinician assessment of dry eye severity.  Cornea 2005; 24:804-810.
8. Rajagopalan K., Abetz L., Mertzanis P., Espindle D., Begley C., Chalmers R., Caffery B., Snyder C., Nelson J.D., Simpson T., Edrington T.: Comparing the discriminative validity of two generic and one disease-specific health-related quality of life measures in a sample of patients with dry eye.Value Health. 2005; 2:168-174.
9. Schaumberg, D.A., Gulati, A., Mathers, W.D., Clinch, T., Lemp, M.A., Nelson, J.D., Foulks, G.N., Dana, R.: Development and Validation of a Short Global Dry Eye Symptom Index. Ocular Surface 2007; 5:50-57.
10. Remington, S.G., Crow, J.M., Nelson, J.D.: Secretoglobins: Lacrimal Gland-Specific Rabbit Lipophillin mRNAs. Invest. Ophthal. Vis. Res.; 2008; 49:2856-2862.
11. Remington S.G., Crow J.M., Nelson J.D.: Antibodies to endogenous tear protein in normal human tears. Curr Eye Res*.* 2009; 34(10):819-823.

**PUBLICATIONS (Con’t)**

1. Crow J.M., Nelson J.D., Remington S.G.: Human lipocalin-1 association with 3H-testosterone and 3H-estradiol. Curr Eye Res. 2009; 34 (12):1042-1049
2. Haixia Liu, Carolyn Begley, Minhua Chen, Arthur Bradley, Joseph Bonanno, Nancy A. McNamara, J. Daniel Nelson, and Trefford Simpson:A Link between Tear Instability and Hyperosmolarity in Dry Eye Invest. Ophthalmol. Vis. Sci. 2009 50: 3671-3679.
3. Nelson, J.D., Shimazaki, J., Benitez-del-Costillo, J.M., Craig, J. P., McCulley, J.P., Den, S., Foulks, G.N.: The International Workshop on Meibomian Gland Dysfunction: Report of the Definition and Classification Subcommittee. Invest. Ophthal. Vis. Sci. 2011; 52:1990-1937.
4. Abetz, L., Rajagopalan, K., Mertzanis, P., … IDEEL Study Group (Nelson, J.D.): Development and validation of the Impact of Dry Eye on Everyday Life (IDEEL) questionnaire, a patient-reported outcome (PRO) measure for the assessment of the burden of dry eye on patients. Health Quality Life Outcomes. 2011; 9:111.
5. Foulks, G.N., Nichols, K.K., Bron, A.J., Holland, E.J., McDonald, M.B., Nelson, J.D.: Improving Awareness, Identification, and Management of Meibomian Gland Dysfunction. Ophthalmology 2012; 119(10):S1-S12.
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Congress on Eye Banking and Corneal Surgery, San Diego, California, June

1985.

17. Nelson, J.D.: Cataract Update - 1985. National Association of Vision Program

Consultants, Ninth Annual Scientific Meeting, August 7-9, 1985, Minneapolis,

Minnesota.

18. Nelson, J.D.: The Role of Prolactin in Tear Secretion. Presented at the Medical

Education and Research Annual Research Conference, St. Paul, Minnesota,

October 1985.

19. Nelson, J.D.: Chemical Injuries to the Eyes. Presented at The Toxic Chemicals Symposium, St. Paul, Minnesota, October 1985.

20. Nelson, J.D., Anderson-Beckman, G.: Effects of Elevated Media Osmolality on

Rat Corneal Epithelial Cell Cultures. Presented at the 14th Biannual Corneal

Research Conference, Boston, Massachusetts, November 1985.

21. Nelson, J.D.: The Dry Eye. TIMM II Meeting, Pharmacia, Piscataway, New

Jersey, October 1985.

22. Nelson, J.D.: Chemical Injuries to the Eyes. Presented at Changing Profiles in

Clinical Toxicology, Minneapolis, Minnesota, May 1986.

23. Nelson, J.D.: Chemical Injuries to the Eyes. Presented at the Clinical Toxicology Symposium, St. Paul, Minnesota, May 1986.

**PRESENTATIONS (Invited) (Con’t)**

24. Nelson, J.D.: Practical Aspects of the YAG Laser. Presented at the Symposium

on YAG Lasers, St. Paul, Minnesota, August 1986.

25. Nelson, J.D.: Impression Cytology. Presented at World Congress on the Cornea III, Washington, D.C., April 1987.

26. Nelson, J.D., Impression Cytology: A Standardized Method for Obtaining and

Processing Specimens. Presented at the International Congress of Dakryology I, Budapest, Hungary, June 1987.

27. Nelson, J.D., Farris, R.L.: A Comparison of the Clinical Performance of a

Sodium Hyaluronate and a Polyvinyl Alcohol Containing Artificial Tear.

Presented at the International Congress of Dakryology I, Budapest, Hungary,

June 1987.

28. Nelson, J.D.: The Effect of Ligation of the Exorbital Gland Duct on the Cornea

and the Exorbital Gland of the Rat. Presented at the International Congress of

Dakryology I, Budapest, Hungary, June 1987.

29. Nelson, J.D.: Impression Cytology. Presented as a Visiting Professor at

Department of Ophthalmology, Duke University, Durham, North Carolina, September 1987.

30. Nelson, J.D.: Impression Cytology: Its Use in Topical Dry Eye Medication

Studies. Ocular Drug Therapy Update, University of California, Irvine, California

September 1987.

31. Nelson, J.D.: Activation of Ocular Toxoplasmosis Following Subconjunctival

Corticosteroid Injection During Cataract Surgery. Presented at the Ocular

Microbiology and Immunology Group Annual Meeting, Dallas, Texas, November

1987.

32. Nelson, J.D.: Topical Retinoids in the Treatment of Corneal Disorders.

Presented at the CLAO Annual Meeting, Las Vegas, Nevada, January 1988.

33. Nelson, J.D.: Impression Cytology. Presented as Visiting Professor at the

University of Southern California, Department of Ophthalmology, Los Angeles,

California, April 1988.

34. Moore, J., Nelson, J.D., Naylor, D.: Overnight Contact Lens Swelling Response.

Presented at International Contact Lens Century Congress, London, United Kingdom. May 25-29, 1988.

35. Nelson, J.D.: Corneal Physiology. Second Annual Penetrating Keratoplasty

Course. University of Minnesota, Minneapolis, Minnesota July 1988.

**PRESENTATIONS (Invited) (Con’t)**

36. Nelson, J.D.: Preservation of Corneal Epithelium During Keratoplasty. Second

Annual Penetrating Keratoplasty Course, University of Minnesota, Minneapolis,

Minnesota, July 1988.

37. Nelson, J.D.: Superior Limbic Keratoconjunctivitis. Eighteenth Annual

Cambridge Symposium: The Limbus, Cambridge, United Kingdom, September 8-9, 1988.

38. Nelson, J.D.: Dry Eye Syndromes: Etiologies, Evaluation and Treatment.

Minnesota Contact Lens Society Annual Meeting, Minneapolis, Minnesota,

September 24, 1988.

39. Nelson, J.D.: Impression Cytology. Presented as visiting professor at the

Department of Ophthalmology, University of Washington, Seattle, Washington,

October 18, 1988.

40. Nelson, J.D.: Medical and Surgical Management of Ocular Surface Disease.

Washington State Academy of Ophthalmology, October 19, 1988.

41. Nelson, J.D.: Ocular Emergencies. Presented at Emergency Medicine for

Primary Care Physicians, St. Paul-Ramsey Medical Center, St. Paul, Minnesota,

October 21, 1988.

42. Nelson, J.D.: Treatment of Keratoconjunctivitis Sicca. Presented at the Many

Faces of Sjogren's Syndrome Conference, National Institute of Health,

Bethesda, Maryland, January 18-19, 1989.

43. Nelson, J.D.: Ocular Burns. Presented at Burn Care Today, St. Paul-Ramsey

Medical Center, St. Paul, Minnesota, February 10, 1989.

44. Nelson, J.D.: Sjogren's Syndrome. Presented at Anterior Segment

Inflammation and Infections, University of Minnesota, Minneapolis, Minnesota,

April 11, 1989.

45. Nelson, J.D.: Corneal Epithelial Cell Communication. North Central Regional Eye Bank

Meeting, Minneapolis, Minnesota, August 4-5, 1989.

46. Nelson, J.D.: Vitamin A and the Eye. Midwest Optical Conference, Minneapolis, Minnesota, September 15, 1989.

47. Nelson, J.D.: The Dry Eye and Contact Lenses. Presented at the American Academy of

Ophthalmology Annual Meeting, New Orleans, Louisiana, October 29, 1989.

**PRESENTATIONS (Invited) (Con’t)**

48. Nelson, J.D.: Dry Eye and Contact Lenses. Puerto Rican Ophthalmic Assistant Scientific

Program, Dorado, Puerto Rico, November 18, 1989.

49. Nelson, J.D.: Ocular Trauma. Puerto Rican Ophthalmic Assistant Scientific Program,

Dorado, Puerto Rico, November 18, 1989.

50. Nelson, J.D.: What's New in the Management of Dry Eye. 21st Annual Convention of

the Section of Ophthalmology of the Puerto Rican Medical Association and the Puerto

Rican Academy of Ophthalmology, Dorado, Puerto Rico, November 19, 1989.

1. Nelson, J.D.: What's New in Ophthalmology. Presented at Family Practice Today, St.

Paul, Minnesota, March 15, 1990.

52. Nelson, J.D.: Gap Junctions in Corneal Epithelium. Presented at the Ramsey Foundation Research Conference, St. Paul, Minnesota, April 28, 1990.

53. Nelson, J.D.: Assessment of Vitamin A Deficiency in Children by Impression Cytology in Belize,C.A. Presented at Pediatrics Grand Rounds, St. Paul Ramsey Medical Center, St. Paul, Minnesota, June 29, 1990.

54. Nelson, J.D.: The Eye in Sjogren's Syndrome. Presented at the National Sjogren's Association Annual Meeting, Minneapolis, Minnesota, October 12-13, 1990.

55. Nelson, J.D.: Ocular Emergencies. Presented at a continuing education seminar for nursing home nurses, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, February 7 and 15, 1991.

56. Nelson, J.D.: The Aging Eye. Presented at a continuing education seminar for nursing home nurses, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, February 7 and 15, 1991.

57. Nelson, J.D.: The Dry Eye: Diagnosis and Treatment. Presented at the ALTA Ophthalmology Society, Sacramento, California, March 21, 1991.

58. Nelson, J.D.: Corneal Epithelium in Penetrating Keratoplasty. Presented at Penetrating Keratoplasty: Surgical Technique, Anterior Segment Reconstruction and Corneal Preservation, Phillips Eye Institute, Minneapolis, Minnesota, July 15, 1991.

59. Nelson, J.D.: Current Diagnosis and Management of the Dry Eye. Presented to San Diego, California Area Ophthalmologists, San Diego, California, September 11, 1991.

60. Nelson, J.D.: Current Diagnosis and Management of the Dry Eye. Presented to Irvine, California Area Ophthalmologists, Irvine, California, September 13, 1991.

**PRESENTATIONS (Invited) (Con’t)**

61. Nelson, J.D.: Current Diagnosis and Management of the Dry Eye. Presented to Phoenix Area Ophthalmologists, Scottsdale, Minnesota, November 14, 1991.

62. Nelson, J.D.: Initial Management of Ocular Trauma. Presented at Practice Approaches to Managing Trauma, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, November 21-22, 1991.

63. Nelson, J.D.: Ocular Emergencies. Presented at Family Practice Update, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, March 13, 1992.

64. Nelson, J.D.: Acute Blepharitis. Presented at the Annual Meeting of the American Academy of Ophthalmology, Dallas, Texas, November 9, 1992.

65. Nelson, J.D.: An Open Label Trial to Evaluate a non preserved physiologic tear substitute in Patients With Moderate to Severe Dry Eye Syndrome. Presented at International Conference on the Lacrimal Gland, Tear Film and Dry Eye Syndromes: Basic Science and Clinical Relevance, Bermuda, November 14-17, 1992.

66. Nelson, J.D.: Topical Fibronectin in The Treatment of Keratoconjunctivitis Sicca. Presented at International Conference on the Lacrimal Gland, Tear Film and Dry Eye Syndromes: Basic Science and Clinical Relevance, Bermuda, November 14-17, 1992.

67. Nelson, J.D.: Keratoconjunctivitis Sicca. Presented at the Annual Meeting of Contact Lens Association of Ophthalmologists, Las Vegas, Nevada, January 17, 1993

68. Nelson, J.D.: The Red Eye. Presented at Family Practice Grand Rounds, St. Paul- Ramsey Medical Center, St. Paul, Minnesota, February 9, 1993.

69. Nelson, J.D.: Artificial Tears- What's New? Presented at the University of Minnesota Department of Ophthalmology Annual CME Meeting, Minneapolis, Minnesota,   
April 2-3, 1993.

70. Nelson, J.D.: Superior Limbic Keratoconjunctivitis. Presented at the University of Minnesota Department of Ophthalmology Annual CME Meeting, Minneapolis, Minnesota, April 2-3, 1993.

71. Nelson, J.D.: Acute Blepharitis. Presented at the University of Minnesota Department of Ophthalmology Annual CME Meeting, Minneapolis, Minnesota, April 2-3, 1993.

72. Nelson, J.D.: What's New in the Treatment of Dry Eye? Presented at the 4th International Symposium on Sjogren's Syndrome. Tokyo, Japan, August 11, 1993.

**PRESENTATIONS (Invited) (Con’t)**

73. Nelson, J.D.: Indications and Techniques for Corneal and Conjunctival Biopsies.

Annual Meeting of the American Academy of Ophthalmology, Chicago, Illinois, November 16, 1993.

74. Nelson, J.D.: Topical Treatment of the Dry Eye. Aspen Corneal Society, Aspen, Colorado, February 21, 1994.

75. Nelson, J.D.: Superior Limbic Keratoconjunctivitis. Aspen Corneal Society, Aspen, Colorado, February 22, 1994.

76. Nelson, J.D.: Topical Treatment of the Dry Eye. Porter/Rose Hospital Ophthalmology Staff, Denver, Colorado, April 11, 1994.

77. Nelson, J.D.: Keratoconjunctivitis Sicca. Corneal Federated Societies Meeting, Toronto, Ontario, Canada, June 25, 1994.

78. Nelson, J.D.: Dry Eye and Blepharospasm. Benign Essential Blepharospasm Research Foundation International Scientific and Medical Symposium, Minneapolis, Minnesota, August 6, 1994.

79. Nelson, J.D.: Treatment of Keratoconjunctivitis Sicca National Sjögren's Syndrome Association Annual Meeting, San Diego, California, September 17, 1994.

80. Nelson, J.D.: The Diagnosis and Management of Dry Eye Syndrome San Diego Eye Bank and the San Diego Eye Bank Eye Center, San Diego, California, October 15, 1994.

81. Nelson, J.D.: Treatment of Keratoconjunctivitis Sicca National Sjögren's Syndrome Association Annual Meeting, Phoenix, Arizona, April 1, 1995.

82. Nelson, J.D.: Tear Turnover and Corneal Permeability in Normal and KCS Subjects. 19th Corneal Research Conference, Massachusetts Eye and Ear Infirmary and the Schepens Eye Research Institute, Boston, Massachusetts, October 5-7, 1995.

83. Lemp, M.A., Bron, A.J., Nelson, J.D.: A New Classification of Dry Eyes, American Academy of Ophthalmology Annual Meeting, Atlanta, Georgia, October 29-November 2, 1995.

84. Nelson, J.D.: Classification of Dry Eye, CLAO Annual Meeting, Las Vegas, Nevada, February 3, 1996.

1. Nelson, J.D.: Conjunctival Health and its Morphological Assessment, World Congress on the Cornea IV, Orlando, Florida, April 17, 1996.

**PRESENTATIONS (Invited) (Con’t)**

86. Nelson, J.D.: Dry Eye Diagnostic Tests, International Congress on Eye Research, Yokohama, Japan, September 30, 1996.

87. Nelson, J.D.: A Clinician Looks at the Tear Film, Conference Address, Second Conference on the Lacrimal Gland, Tear Film and Dry Eye Syndromes: Basic Science and Clinical Relevance, Bermuda, November 16-18. 1996.

88. Nelson, J.D.: The Dry Eye: Sjogren’s Syndrome and You, Coalition for Arthritis and Rheumatic Disease Education Annual Meeting, Minneapolis, Minnesota, October 4, 1997.

89. Nelson, J.D.: Evaluation and Management of the Red Eye, Acute Issues in Primary Care, Third District Fall Conference for Nurses in Advanced Practice, Minneapolis, Minnesota, September 25, 1997.

90. Nelson, J.D.: Dry Eye: Top Ten Things You Need to Know, The Cleveland Ophthalmological Society, Cleveland, Ohio, February 10, 1998.

1. Nelson, J.D.: Dry Eye: Dry Eye- Common Sense Approach to Diagnosis and Management, The Cleveland Ophthalmological Society, Cleveland, Ohio, February 10, 1998.
2. Nelson, J.D.: Dry Eye Clinical Trial Design, First International Meeting of Dry Eye and Ocular Surface Disease, Kyto, Japan, November 19-20, 1998.
3. Nelson, J.D.: Dry Eye Diagnosis and Management, National Symposium of the XIVth Ahmedabad Academy of Ophthalmology, Ahmedabad, India, September 1999.
4. Remington, S.G., Nelson, J.D.: Lipase mRNAs Expressed in Lacrimal and Hardarian Glands, Third International Conference on the Lacrimal Gland, Tear Film, and Dry Eye Syndromes: Basci Science and Clinical Revelance, Maui, Hawaii, November 15-18, 2000.
5. Nelson, J.D.: Diagnosis and Management of Dry Eye: A Clinical Approach, Third International Conference on the Lacrimal Gland, Tear Film, and Dry Eye Syndromes: Basic Science and Clinical Reverence, Maui, Hawaii, November 15-18, 2000.
6. Nelson. J.D.*:* Phacoemulsification Cataract Surgery. 2nd Teaching Hospital, Lanzhou, Gansu, China, May 28- June 1, 2001.
7. Nelson, J.D.: Dry Eyes: What’s the Latest? Sjogren’s Syndrome Foundation Patient Seminar, Sarasota, Florida. January 25, 2003.

**PRESENTATIONS (Invited) (Con’t)**

1. Remingtion, S.G. Crow, J.M., Nelson, J.D.: Secretoglobins of the Mouse Lacrimal Gland, ARVO Annual Meeting, May 2004. (IOVS 2004; 45: ARVO EAbstract 3868)

1. Crow, J.M., Remington, S.G., Nelson, J.D.: Lipase H cDNA in Human Lacrimal Gland, ARVO Annual Meeting, May 2005. (IOVS 2005; 45: ARVO EAbstract 4419)
2. Nelson, J.D : Dry Eye Dogma, presented at *Ophthalmology at the Crossroads*, Department of Ophthalmology, University of Texas Southwestern Medical School, December 9, 2006.
3. Crow, J.M., Nelson, J.D., Remington, S.G.: Lipochalin-1 Binds Steroid Hormones in Tears, ARVO Annual Meeting, May 2007. (IOVS 2007; 48:ARVO EAbstract 1901)
4. Remington, S.G., Crow, J.M., Nelson, J.D.: Lipochalin-1 associates with lysozyme and with endogenous antibodies in Tears. ARVO Annual Meeting, May 2007. (IOVS 2007; 48: ARVO EAbstract 1907)
5. Shippy, S., Pulido, J.S., Quian, H. Nelson, J.D.: Evidence for Corneal Glutamate Receptor Expression and Function. ARVO Annual Meeting, May 2007. (IOVS 2007; 48: ARVO EAbstract 3472)
6. Nelson, J.D.: Clinical Summary, 6th International Meeting of the Tear Film and Ocular Surface Society, Taromina, Sicily September 8, 2007.
7. Nelson, J.D.: MGD Definition and Classification 7th International Meeting of the Tear Film and Ocular Surface Society, Florence, Italy September 8, 2007.
8. Nelson, J.D.: Boresh Symposium, University of Indiana School of Optometry. Is the Dry Eye Really Dry? Diagnosis and Management of the Dry Eye, March 20016.

**VISITING PROFESSORSHIPS**

1. Duke University, Department of Ophthalmology, Durham, North Carolina,

September 18-19, 1987. Topic: Impression Cytology.

2. Estelle-Doheny Eye Institute and the University of Southern California,

Department of Ophthalmology, Los Angeles, California April 21-22, 1988.

Topic: Cornea/External Disease.

3. University of Washington, Department of Ophthalmology, Seattle, Washington,

October 17-18, 1988. Topic: Cornea/External Disease.

4. Mayo Clinic, Rochester, Minnesota, September 6, 1992. Topic: The Dry Eye.

5. Department of Physiologic Optics, University of Alabama, Birmingham, Alabama,   
June 12, 1992. Topic: Impression Cytology.

6. Emory University Eye Center and Ciba Vision Ophthalmics Lecturer, Department of Ophthalmology, Emory University, Atlanta, Georgia, June 4, 1993. Topic: Therapy of the Dry Eye.

7. Department of Ophthalmology, Case Western Reserve University, Cleveland Ohio, February 11, 1998. Topic: Dry Eye.

1. L.V. Prassett Eye Institute, Hyderbad India, September 1999. Topics: Dry Eye and Pterygium Surgery.

**MISCELLANEOUS**

Project ORBIS, Djerba, Tunisia, March 18-26, 1988.

**GRANTS**

1. Prospective Evaluation of Radial Keratotomy, National Eye Institute, Co-

Investigator, 1982-1989. Principal Investigator, 1990-Present.

2. Investigation of Tears and the Ocular Surface in Dry Eye Patients and Normals,

Medical Education and Research Foundation, St. Paul-Ramsey Medical Center,

St. Paul, Minnesota, Principal Investigator, 1982-1984.

3. Herpes Simplex Virus Interaction in a Human Corneal Epithelial Trigeminal

Ganglion Tissue Culture System, Medical Education and Research Foundation,

St. Paul-Ramsey Medical Center, St. Paul, Minnesota, Principal Investigator, 1983-1985.

**GRANTS (Con’t)**

4. Prolactin in Human Tear Production and Dry Eye Syndrome, Medical Education

and Research Foundation, St. Paul-Ramsey Medical Center, St. Paul,

Minnesota, Principal Investigator, 1984-1985.

5. Effects of Hyperosmolality on Rat Corneal Epithelium in Tissue Culture, Medical

Education and Research Foundation, St. Paul-Ramsey Medical Center, St.

Paul, Minnesota, Principal Investigator, 1985-1986, $19,877.

6. Effects of Pituitary and Gonodal Hormones on Tear Secretion. St. Paul-Ramsey

Foundation, Principal Investigator, 1986-1987, $19,963.

7. A Double-Masked, Randomized, Placebo Control Study of Healon Artificial

Tears, Principal Investigator, Pharmacia, Inc., 1983-1985.

8. A Double-Masked, Randomized Study Comparing Refresh®, Tears Naturale®

and Tears Plus. Principal Investigator. Allegan Pharmaceuticals, 1985-1986.

9. Effects of Oxygen on Corneal Epithelial Wound Healing. St. Paul-Ramsey

Foundation, Principal Investigator, 1987-1988, $16,950.

10. Gap Junctions in Corneal Epithelium: A Study of Intact and Tissue Cultured

Corneal Epithelium. St. Paul-Ramsey Foundation, Principal Investigator, 1987-

1988, $16,904.

11. Equipment Support of Studies on Gap Junctions, Minnesota Medical Foundation, Principal Investigator, 1988, $4,695.

12. An in vivo Study on the Physiology of Gap Junctions in Corneal Epithelium,

National Eye Institute, I-R03-EY07650-01, Principal Investigator, 1988-1989,

$20,200.

13. Effects of Ofloxacin, Tobramycin and Gentamicin on Corneal Epithelial Wound

Healing in Tissue Culture. Allergan Pharmaceuticals, Principal Investigator,

1988-1989, $18,000.

14. Effects of CO2/pH on Corneal Epithelial Wound Healing in Tissue Culture. St.

Paul-Ramsey Foundation, Principal Investigator, 1988-1989, $19,950.

15. Vitamin A Status in Belizian Children, USAID Grant, Co-Investigator, 1989

16. Corneal Epithelial Wound Healing II: The Role of DNA Synthesis and Gap

Junctions, Ramsey Foundation, Principal Investigator, 1989-1990, $19,993.

**GRANTS (Con’t)**

17. Gap Junctional Proteins in Corneal Epithelium, Ramsey Foundation, Principal

Investigator, 1990-1991, $19,965.

18. Brief Assessment of Non-Preserved Artificial Tears in Dry Eye Patients, Alcon Laboratories, Principle Investigator, 1990-1991, $30,500.

19. Characterization and Sequencing of a Newly Discovered Corneal Epithelial Membrane Protein, Ramsey Foundation, 1991-1992, $14,920.

20. A Clinical Study to Evaluate the Conjunctival Impression Cytology of Normal Subjects, Allergan Pharmaceuticals, Principle Investigator, 1993, $36,175.

21. The Use of Fluorophotometry to Assess Corneal Permeability, Ramsey Foundation, 1992-1993, $15,259.

22. Further Characterization of an MIP-like Corneal Protein, Ramsey Foundation,

1993-1994, $19,994.

23. A Double-Masked Evaluation of Two Concentrations of OcuNex for Alterations of the Ocular Surface in Patients with Severe Dry Eyes, Telios Pharmaceuticals, Principle Investigator, 1993-1994, $37,560.

24. A Multi-center, Randomized, Double-Blinded, Placebo Controlled Evaluation of Pilocarpine HCL for The Treatment of Xerostomia and Xerophthalmia Associated with Sjögren's Syndrome, MGI Pharmaceuticals, 1993-1994, $30,000.

25. A Clinical Evaluation of the Efficacy of BION tears and Refresh Plus in Moderate to Severe Dry Eye Patients, Alcon Laboratories, 1995, $47,000.

26. Corneal MIP-like Protein: Molecular Cloning, Ramsey Foundation, 1995, $20,000.

27. Differential Display Analysis of Lacrimal Gland Proteins, Ramsey Foundation, 1996, $20,000.

28. Differential Display Analysis of Male and Female Lacrimal Glands, Ramsey Foundation, 1996, $24,140.

29. Pancreatic Lipase in the Lacrimal Gland, Ramsey Foundation, 1997, $25,000.

1. Lacrimal Gland Proteins; Characterization of a New Secretory Protein, HealthPartners Research Foundation, 1998, $25,000.
2. Lipases in Human Lacrimal Glands, HealthPartners Research Foundation, 2001, $25,000.