September 19, 2011

CURRICULUM VITAE

Jerry Y. Niederkorn, Ph.D.
The George A. and Nancy P. Shutt Professor of Medical Science
The Royal C. Miller Chair in Age-Related Macular Degeneration Research
Vice Chairman for Research
Departments of Ophthalmology and Microbiology
University of Texas Southwestern Medical Center
Dallas, TX 75390-9057

ADDRESS:

Home: 625 Briarglen Drive
Coppell, Texas 75019
Phone: 214-763-6540

Office: Department of Ophthalmology
University of Texas Southwestern Medical Center
5323 Harry Hines Blvd.
Dallas, Texas 75235-9057
Phone: (214) 648-3829/3840
Fax: (214) 648-9061
e-mail: jerry.niederkorn@utsouthwestern.edu

PERSONAL DATA: Birth Date: October 31, 1946
Married: 2 children

MILITARY SERVICE: Branch: U.S. Army (1968-1970) (Honorable Discharge)
Rank: Specialist 5 (E-5)
Training: Medical Laboratory Technician (virologist)

EDUCATION:

Date	Institution	Degree Received
1977	University of Arkansas Fayetteville, Arkansas	Ph.D. (Zoology)
1972	University of Central Missouri Warrensburg, Missouri	M.S. (Biology)
1968	Central Methodist University Fayette, Missouri	B.A. (Biology)

ACADEMIC AND RESEARCH APPOINTMENTS:

Date	Institution	Position
1989 - Present	University of Texas Southwestern Medical Center at Dallas	Director of Ophthalmic Research and Professor of Ophthalmology and Microbiology (with tenure)
1984-1989	University of Texas Health Science Center Center at Dallas	Associate Professor
1979-1984	University of Texas Health Science Center at Dallas	Assistant Professor
1977-1979	University of Texas Health Science Center at Dallas	Postdoctoral Fellow (Immunology)
1974-1977	University of Arkansas Fayetteville, Arkansas	Graduate Teaching Assistant
1972-1974	Missouri Division of Health Division of Laboratories Jefferson City, MO	Microbiologist
1970-1972	University of Central Missouri Warrensburg, MO	Graduate Teaching Assistant
1968-1970	Fifth U.S. Army Laboratory St. Louis, MO	Laboratory Technician
1967-1968	Central Methodist University Fayette, MO	Undergraduate Teaching Assistant

TEACHING INTERESTS:
Immunology
Tumor Biology
Parasitology
Transplantation Biology

RESEARCH INTERESTS:

Immunology of the eye
Immunity to parasitic diseases
Tumor immunology

PROFESSIONAL AND HONOR SOCIETIES:

Beta Beta Beta Honorary Biological Society
Phi Kappa Phi, National Honor Society
Sigma Xi, National Research Honor Society
Athenaeum Society (Central Methodist College)
American Association for the Advancement of Science
American Society for Parasitologists
Southwestern Association of Parasitologists
American Association for Cancer Research
American Uveitis Society
American Association of Immunologists (AAI)
Transplantation Society
Association for Research in Vision and Ophthalmology (ARVO)
American Society for Microbiology (ASM)
International Society for Eye Research
Cornea Society

PROFESSIONAL ACTIVITIES:

1. Member of Study Section A Visual Sciences (NIH: National Eye Institute). (1986-1990; 1997 - 2001).
2. Chairman: Admissions Committee - Graduate Program in Immunology (1983-1988).
3. Member of Fight for Sight, Inc. Review Committee for Grants and Fellowships (1986-1987).
4. Lecturer for basic science seminars on ocular immunology for ophthalmology residents (1982-Present).
5. Faculty appointment in Graduate School of Biomedical Sciences: Immunology Graduate Program (1980-Present) and Molecular Microbiology Graduate Program (1991-2008)

6. Module Leader and Lecturer - Parasitology Module. Second Year Medical Students (1986-Present)
7. Chairman: Institutional Review Board for Animal Research (1987-1989)
8. President: U. T. Southwestern Chapter of Sigma Xi Research Society (1990)
9. President: Southwestern Association of Parasitologists (SWAP) (1994)
10. Chairman: Examination Committee for Graduate Studies Program in Immunology (1994 -1999)
11. Council Member: International Ocular Inflammation Society (1995 - 2004)
12. Board of Scientific Advisors for the Tulane Regional Primate Research Center (1997-2000)
13. Member of Scientific Advisory Committee of the Eye and Ear Foundation of Pittsburgh (2000-2003)
14. Reviewer for research and fellowship grants submitted to The Wellcome Trust (1998-present)
15. Reviewer for Veterans' Administrations Merit Review applications (1996- present; approximately 2 applications/yr)
16. Member of Executive Committee, American Uveitis Society (1997 – 2003)
17. Chairman, Immunology Graduate Program (U.T. Southwestern Medical Center) (2002 – 2005).

EDITORIAL BOARDS:

Editorial Board - Current Eye Research (1987-present)
Editorial Board - Regional Immunology (1987-1992)
Editorial Board - Investigative Ophthalmology and Visual Sciences (1992- present)
Deputy Edito – American Journal of Transplantation (2011- present)

AWARDS:

Research to Prevent Blindness, Inc. Special Scholars Award: Olga Keith Wiess Scholar, 1985.
Fight for Sight, Inc. - Citation for Outstanding Clinical Research Poster (1985 ARVO)
Research to Prevent Blindness, Inc. Senior Investigator Award (1991 and 1999)
Alcon Research Institute Award (1992)
The George A. and Nancy P. Shutt Professor of Medical Science (1995 – present)
The Royal C. Miller Chair in Age-Related Macular Degeneration Research (2011 – present)
The J. Wayne Streilein Professor of Immunology (2005)
Visiting Professor: The Tamil Nadu Dr. M.G.R. Medical University, Madras, India (1994)
Thygeson Lecture – Ocular Microbiology Immunology Group of American Academy of Ophthalmology (October 21, 2000)
NIH MERIT Award: NCI grant # CA30276 (1995-2003)
Visiting Professor: Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, People's Republic of China (2006-2008).

Fellow of ARVO (FARVO; inaugural class – 2009)

PUBLICATIONS (Peer Review):

1. Niederkorn, JY: Protective immunity against tetrathyridia of *Mesocestoides corti* (cestoda): Adoptive transfer by spleen cells. **Jour Parasitol**. 63: 1130-1132, 1977.

2. Niederkorn, JY: Fluorescent antibody studies of sera and intestinal extracts from mice subcutaneously vaccinated with tetrathyridia of *Mesocestoides corti*. **Jour Parasitol**. 64: 763-764, 1978.

3. Niederkorn, JY: Studies on intestinal immunity against tetrathyridia of *Mesocestoides corti* (cestoda) in mice. **Jour Parasitol**. 64: 253-256, 1978.

4. Niederkorn, JY, and Shadduck, JA: The role of antibody and complement in the control of *Encephalitozoon cuniculi* by rabbit macrophages. **Infect Immun**. 27: 995-1002, 1980.

5. Niederkorn, JY, Weidner, E, and Shadduck, JA.: Antigenic cross-reactivity among different miocrosporidan spores as determined by immunofluorescence. **Jour Parasitol**. 66: 675-677, 1980.

6. Streilein, JW, Niederkorn, JY, and Shadduck, JA: Systemic immune unresponsiveness induced in adult mice by anterior chamber presentation of minor histocompatibility antigens. **Jour Exp Med**. 152: 1121-1125, 1980.

7. Niederkorn, JY, Shadduck, JA, Albert, D, and Essex, M: Serum antibodies against feline oncornavirus-associated cell membrane antigen in cats bearing virally induced uveal melanomas. **Invest Ophthalmol Vis Sci**. 20: 598-605, 1981.

8. Albert, D, Shadduck, JA, Craft, JL, and Niederkorn, JY: Feline uveal melanoma model induced with feline sarcoma virus. **Invest Ophthalmol Vis Sci**. 20: 606-624, 1981.

9. Niederkorn, JY, Streilein, JW, and Shadduck, JA: Deviant immune responses to allogeneic tumors injected intracamerally and subcutaneously in mice. **Invest Ophthalmol Vis Sci**. 20: 355-363, 1981.

10. Shadduck, JA, Albert, DM, and Niederkorn, JY: Feline uveal melanomas induced with feline sarcoma virus: potential model of the human counterpart. **Jour Nat Cancer Inst**. 67: 619-627, 1981.

11. Niederkorn, JY, Streilein, JW and Shadduck, JA: Immunogenetic basis for immunologic privilege in the anterior chamber of the eye. **Immunogenetics** 13: 227-236, 1981.

12. Streilein, JW and Niederkorn, JY: Induction of anterior chamber-associated immune deviation requires an intact functional spleen. **Jour Exp Med**. 153: 1058-1067, 1981.

13. Chen, AP, Essex, M, Shadduck, JA, Niederkorn, JY and Albert DM: Retrovirus-encoded transformation-specific polyproteins: Expression coordinated with malignant phenotype in cells from different germ layers. **Proc Natl Acad Sci**. 78: 3915-3919, 1981.

14. Niederkorn, JY, Shadduck, JA. and Schmidt, EC: Susceptibility of selected inbred strains of mice to *Encephalitozoon cuniculi*. **Jour Infect**. **Dis**. 144: 249-253, 1981.

15. Niederkorn, JY, and Streilein, JW: Analysis of antibody production induced by allogeneic tumor cells inoculated into the anterior chamber of the eye. **Transplantation** 33: 573-577, 1982.

16. Niederkorn, JY, Shadduck, JA, and Albert, DM: Enucleation and the appearance of second primary tumors in cats bearing virally-induced intraocular tumors. **Invest Ophthalmol Vis Sci.** 23: 719-725, 1982.

17. Streilein, JW, McCulley, J and Niederkorn, JY: Heterotopic corneal grafting in mice. A new approach to the study of corneal alloimmunity. **Invest Ophthalmol Vis Sci**. 23: 489-500, 1982.

18. Whittum, JA, Niederkorn, JY, and Streilein, JW: Alloantigen presentation to the anterior chamber of the eye subverts specific in vitro cell-mediated immune responses. **Transplantation** 34: 190-195, 1982.

19. Niederkorn, JY, and Streilein, JW: Induction of anterior chamber-associated immune deviation (ACAID) by allogeneic intraocular tumors does not require splenic metastases. **Jour Immunol**. 128: 2470-2474, 1982.

20. Niederkorn, JY, Streilein, JW, and Kripke, ML: Promotion of syngeneic intraocular tumor growth in mice by anterior chamber-associated immune deviation. **Jour Natl Cancer Inst**. 71: 193-199, 1983.

21. Chen, A.P., Essex, M., Kelliher, M., DeNoronha, F., Shadduck, J.A., Niederkorn, J.Y., and Albert, D.: Feline sarcoma virus-specific transformation-related proteins and protein kinase activity in tumor cells. **Virology** 124: 274-285, 1983.

22. Niederkorn, J.Y., Brieland, J.K., and Mayhew, E.: Enhanced natural killer cell activity in experimental murine encephalitozoonosis. **Infect Immun** 41: 302-307, 1983.

23. Whittum, J, Niederkorn, JY, McCulley, J, and Streilein, JW: Intracameral inoculation of herpes simplex virus type 1 induced anterior chamber-associated immune deviation: The role of suppressor T cells. **Curr Eye Res**. 2: 691-697, 1983.

24. Niederkorn, JY, and Streilein, JW: Intracamerally-induced concomitant immunity: Mice harboring progressively growing intraocular tumors are immune to spontaneous metastases and secondary tumor challenge. **Jour Immunol**. 131(5): 2587-2594, 1983.

25. Niederkorn, JY, and Streilein, JW: Alloantigens placed into the anterior chamber of the eye induce specific suppression of delayed-type hypersensitivity but normal cytotoxic T-lymphocyte and helper T-lymphocyte responses. **Jour Immunol**. 131: 2670-2674, 1983.

26. Niederkorn, JY: Suppressed cellular immunity in mice harboring intraocular melanomas. **Invest Ophthalmol Vis Sci**. 25: 447-454, 1984.

27. Niederkorn, JY and Streilein, JW: Adoptive transfer of immunity to intraocular tumors in mice. **Invest Ophthalmol Vis Sci**. 25: 336-342, 1984.

28. Niederkorn, JY: Enucleation-induced metastasis of intraocular melanomas in mice. **Ophthalmology** 92: 692-700, 1984.

29. Whittum, JA, Niederkorn, JY, McCulley, JP, and Streilein, JW: Role of suppressor T cells in herpes simplex virus-induced immune deviation. **Jour Virology** 51: 556-558, 1984.

30. Niederkorn, JY, Waltenbaugh, C, and Streilein, JW: Abrogation of anterior-chamber-induced suppression of delayed-type hypersensitivity responses by monoclonal anti-I-J antibodies. **Transplantation** 37: 623-625, 1984.

31. Niederkorn, JY: Enucleation in consort with immunologic impairment promotes metastasis of intraocular melanomas in mice. **Invest Ophthalmol Vis Sci**. 25: 1080-1086, 1984.

32. Whittum, JA, McCulley, JP, Niederkorn, JY, and Streilein, JW: Ocular disease induced in mice by anterior chamber inoculation of Herpes simplex virus. **Invest Ophthalmol Vis Sci**. 25: 1065-1073, 1984.

33. Niederkorn, JY: Enhanced pulmonary natural killer cell activity during murine encephalitozoonosis. **Jour Parasitol**. 71: 70-74, 1985.

34. Luckenbach, MW, Streilein, JW, and Niederkorn, JY: Histopathologic analysis of intraocular allogeneic tumors in mice. **Invest Ophthalmol Vis Sci**. 26: 1368-1376, 1985.

35. Niederkorn, JY, and Meunier, PC: Spontaneous immune rejection of intraocular tumors in mice. **Invest Ophthalmol Vis Sci**. 26: 877-884, 1985.

36. Streilein, JW, and Niederkorn, JY: Characterization of suppressor cells responsible for anterior chamber-associated immune deviation induced in BALB/c mice by P815 cells. **Jour Immunol**. 134: 1381-1387, 1985.

37. Peeler, J, Matoba, AY, and Niederkorn, JY: Corneal allografts induce cytotoxic T cell but not delayed hypersensitivity responses in mice. **Invest Ophthalmol Vis Sci**. 26: 1516-1523, 1985.

38. Niederkorn, JY and Streilein, JW: Lymphoma allografts abrogate immune privilege within the anterior chamber of the eye. **Invest Ophthalmol Vis Sci** 27: 1235-1243, 1986.

39. Niederkorn, JY, Knisely, TL, and Mayhew, E: Immune rejection of metastases arising from intraocular tumors in mice. **Invest Ophthalmol Vis Sci**. 27: 1355-1361, 1986.

40. Matoba, AY, Peeler, JS, and Niederkorn, JY: T cell subsets in the immune rejection of murine heterotopic corneal allografts. **Invest Ophthalmol Vis Sci**. 27: 1244-1254, 1986.

41. Peeler, JS and Niederkorn, JY: Antigen presentation by Langerhans cells in vivo: Donor derived Ia+ Langerhans cells are required for induction of delayed-type hypersensitivity but not for cytotoxic T lymphocyte responses to alloantigens. **Jour Immunol**. 136: 4362-4371, 1986.

42. Hart, DA and Niederkorn, JY: Transplantation of the B16-F10 melanoma to the anterior chamber of the eye uniquely fails to elicit elevation in plasma proteinase activity. **Cancer Lett**. 30: 223-230, 1986.

43. Niederkorn, JY: Parasite Eccentricities. **Perspectives in Biol and Med**. 30: 1-6, 1986.

44. Niederkorn, JY: Exogenous recombinant interleukin-2 abrogates anterior chamber-associated immune deviation. **Transplantation** 43: 523-528, 1987.

45. Lynch, MG, Brown, R, Peeler, JS, and Niederkorn, JY: Expression of HLA Class I and II antigens on cells of the human trabecular meshwork. **Ophthalmology**. 94: 851-857, 1987.

46. Knisely, TL, Luckenbach, MW, Fischer, BJ, and Niederkorn, JY: Destructive and nondestructive patterns of immune rejection of syngeneic intraocular tumors. **Jour Immunol**. 138: 4515-4523, 1987.

47. Niederkorn, JY: T cell subsets involved in the rejection of metastases arising from intraocular melanomas in mice. **Invest Ophthalmol Vis Sci**. 28: 1397-1403, 1987.

48. Niederkorn, JY, Sanborn, GE, and Gamel, JW: Suicide enzyme inhibition as a chemotherapeutic strategy for controlling metastases derived from intraocular melanomas. **Invest Ophthalmol Vis Sci**. 28: 1844-1878, 1987.

49. Callanan, D, Peeler, J, and Niederkorn, JY: Characteristics of rejection of orthotopic corneal allografts in the rat. **Transplantation**. 45: 437-443, 1988.

50. Sanborn, GE, Nguyen, P, Gamel, J, and Niederkorn, JY: Reduction of enucleation-induced metastasis in intraocular melanoma by peri-orbital radiation. **Arch Ophthalmol**. 105: 1260-1264, 1987.

51. Niederkorn, JY: Is cataract formation an autoimmune phenomenon? **Immunol. Today**. 8: 332-333, 1987.

52. Niederkorn, JY, Stewart, GL, Ghazizadeh, S, Mayhew, E, Ross, J, and Fisher, B: *Trichinella pseudospiralis* larvae express natural killer (NK) cell-associated asialo GM1 antigen and stimulate pulmonary NK activity. **Infect Immun**. 56: 1011-1016, 1988.

53. Niederkorn, JY and Knisely, TL: Immunological analysis of a destructive pattern of intraocular tumor resolution. **Curr Eye Res**. 7: 515-526, 1988.

54. Scarbrough, EC, Sanborn, GE, Nguyen, PD, Niederkorn, JY, and Antich, PP: Dose distribution around a new type of 125-I seed. **Medical Physics** 17: 460-463, 1990.

55. Callanan, DG, Luckenbach, M.W, Fischer, BA, and Niederkorn, JY: Histopathology of rejected orthotopic corneal grafts in the rat. **Invest Ophthalmol Vis Sci**. 30: 413-424, 1989.

56. Peeler, JS, Callanan, D, Luckenbach, M, and Niederkorn, JY: Presentation of the H-Y antigen on Langerhans cell-deficient corneal grafts down-regulates the cytotoxic T cell response and converts responder strain mice into phenotypic non-responders. **Jour Exp Med**. 168: 1749-1766, 1988.

57. Stewart, GL, Niederkorn, JY, Ghazizadeh, S, Mayhew, E, and Ahanotu, E: A mechanism for anti-asialo GM1 antibody-induced anaphylactoid response in mice infected with *Trichinella pseudospiralis*. **Jour Parasitol**. 75: 780-786, 1989.

58. Knisely, TL and Niederkorn, JY: Emergence of a dominant cytotoxic T lymphocyte (CTL) antitumor effector from tumor infiltrating cells in the anterior chamber of the eye. **Cancer Immunol and Immunotherap**. 30:323-330, 1990.

59. Niederkorn, JY, Peeler, JS, Ross ,J, and Callanan, D: The immunogenic privilege of corneal allografts. **Regional Immunology** 2: 117-124, 1989.

60. Niederkorn, JY, Peeler, JS, and Mellon, J: Phagocytosis of particulate antigens by corneal epithelial cells stimulates interleukin-1 secretion and migration of Langerhans cells into the central cornea. **Regional Immunology** 2: 83-90, 1989.

61. Niederkorn, JY, Ubelaker, JE, and Martin, JM: Vascularization of corneas of hairless mutant mice. **Invest Ophthalmol Vis Sci**. 31: 948-953, 1990.

62. Niederkorn, J.Y., Callanan, D., and Ross, J.R.: Prevention of the induction of allospecific cytotoxic T lymphocyte and delayed-type hypersensitivity responses by ultraviolet irradiation of corneal allografts. **Transplantation** 50: 281-286, 1990.

63. Knisely, TL and Niederkorn, JY: Immunological evaluation of spontaneous regression of an intraocular murine melanoma. **Invest Ophthalmol Vis Sci**. 31: 247-257, 1990.

64. Stewart, GL, Niederkorn, JY, Kennedy, RR, and Mayhew, E: Effect of acute versus chronic *Trichinella spiralis* infections on systemic cell-mediated immunity. **Int Jour Parasitol**. 21:935-940, 1991.

65. Niederkorn, JY, Sanborn, GE, and Scarbrough, EE: Mouse model of brachytherapy for treatment of malignant melanoma. **Arch. Ophthalmol**. 108: 865-868, 1990.

66. Niederkorn, JY, Meyer, DR, Ubelaker, JE, and Martin, JM: Ultrastructural and immunohistological characterization of the SIRC corneal cell line. **In Vitro** 26: 923-930, 1990.

67. Benson, JL and Niederkorn, JY: Interleukin-1 abrogates anterior chamber associated immune deviation. **Invest Ophthalmol Vis Sci**. 31: 2123-2128, 1990.

68. He, Y-G, Niederkorn, JY, McCulley, JP, Stewart, GL, Meyer, DR, and Silvany, R: In vivo and in vitro collagenolytic activity of *Acanthamoeba castellanii*. **Invest Ophthalmol Vis Sci**. 31: 2235-2240, 1990.

69. Ross, J, Callanan, D, Kunz, H, and Niederkorn, JY: Evidence that the fate of class II disparate corneal allografts is determined by the timing of class II expression. **Transplantation**. 51: 532-536, 1991.

70. He, Y-G, Ross, J, Callanan, D, and Niederkorn, JY: Acceptance of H-Y disparate corneal grafts despite concomitant immunization of the recipient. **Transplantation.** 51: 1258-1262, 1991.

71. Benson, JL and Niederkorn, JY: The presence of donor-derived class II positive cells abolishes immune privilege in the anterior chamber of the eye. **Transplantation**. 51: 834-838, 1991.

72. Niederkorn, JY: The immunopathology of intraocular tumor rejection. **Eye**. 5: 186-192, 1991.

73. Larsen E, Stewart, GL, and Niederkorn, JY: *Trichinella pseudospiralis* overcomes innate resistance to the Chinese hamster to *Trichinella spiralis*. **Jour Parasitol** 103:465-470, 1991.

74. Sanborn, GE, Niederkorn, JY, Kan-Mitchell, J, and Albert, DM: Prevention of metastasis from intraocular melanomas in mice treated with difluoromethylornithine (DFMO). **Graefe's Arch Ophthalmol** 230:72-77, 1992.

75. Ross, J, He, Y-G, Pidherney, M, Mellon, J., and Niederkorn, JY: The differential effects of donor versus host Langerhans cells in the rejection of MHC-matched corneal allografts. **Transplantation**. 52:857-861, 1991.

76. Benson, JL and Niederkorn, JY: In situ suppression of delayed-type hypersensitivity: Another mechanism of sustaining the immune privilege of the anterior chamber. **Immunology** 74:153-159, 1991.

77. He, Y-G, Ross, J, and Niederkorn, JY: Promotion of murine orthotopic corneal allograft survival by systemic administration of anti-CD4 monoclonal antibody. **Invest Ophthalmol Vis Sci**. 32:2723-2728, 1991.

78. Ross, J, He, Y-G, and Niederkorn, J.Y.: Class I disparate corneal grafts enjoy afferent but not efferent blockade of the immune response. **Curr Eye Research**. 10:889-892, 1991.

79. Niederkorn, JY, Benson, JL, and Mayhew, E: Efferent blockade of delayed-type hypersensitivity responses in the anterior chamber of the eye. **Regional Immunology**. 3:349-354, 1991.

80. Niederkorn, JY, Ubelaker, JE, McCulley, JP, Stewart, GL, Meyer, DR, Mellon, JA, Silvany, RE, He, Y-G, Pidherney, M, Martin, JH, and Alizadeh, H: Susceptibility of corneas from various animal species to in vitro binding and invasion by *Acanthamoeba castellanii*. **Invest Ophthalmol Vis Sci**. 33:104-112, 1992.

81. He, Y-G, McCulley, JP, Alizadeh, H, Pidherney, M, Mellon, J, Ubelaker, JE, Stewart, GL, Silvany, RE, and Niederkorn, JY: A pig model of *Acanthamoeba* keratitis: Transmission via contaminated contact lenses. **Invest Ophthalmol Vis Sci** 33:126-133, 1992.

82. Sanborn, GE, Niederkorn, JY, and Gamel, JW: Efficacy of dacarbazine (DTIC) in

preventing metastases arising from intraocular melanomas in mice. **Graefe's Arch of Ophthalmol**. 230:192-196, 1992.

83. Stewart, GL, Kim, I, Shupe, K, Alizadeh, H, Silvany, R, McCulley, JP, and Niederkorn, JY: Chemotactic response of macrophages to *Acanthamoeba castellanii* antigen and antibody-dependent macrophage-mediated killing of the parasite. **Jour Parasitol**.. 78:849-855, 1992.

84. Niederkorn, JY, Ross, J, and He, Y-G: Effect of donor-derived Langerhans cells on corneal graft rejection. **Jour Invest Dermatol**. 99:104S-106S, 1992.

85. Benson, JL and Niederkorn, JY: Immune privilege in the anterior chamber of the eye: Alloantigens and tumor specific antigens presented into the anterior chamber simultaneously induce suppression and activation of delayed hypersensitivity to the respective antigens. **Immunology** 77:189-195, 1992.

86. Kaminska, GM. and Niederkorn, JY: Spontaneous corneal neovascularization in nude mice. Local imbalance between angiogenic and anti-angiogenic factors. **Invest Ophthalmol Vis Sci**. 34:222-230, 1993.

87. Van Klink F, Alizadeh H, He Y-G, Mellon JA, Silvany RE, McCulley JP, and Niederkorn JY: Chinese hamster model of *Acanthamoeba* keratitis: Role of contact lenses, trauma, and Langerhans cells. **Invest Ophthalmol Vis Sci**. 34:1937-1944, 1993.

88. Van Klink F, Alizadeh H, Stewart GL, Pidherney MS, Silvany RE, He Y-G, McCulley JP, and Niederkorn JY: Characterization and pathogenic potential of a soil isolate and an ocular isolate of *Acanthamoeba castellanii* in relation to *Acanthamoeba* keratitis. **Curr Eye Res** 12:1207-1220, 1993.

89. Niederkorn JY and Mayhew E: UVB irradiation renders corneal allografts tolerogenic for allospecific delayed hypersensitivity responses. **Immunology** 79:278-284, 1993.

90. Niederkorn JY, Mellon J, Pidherney M, Mayhew E, and Anand R: Effect of anti-ganglioside antibodies on the metastatic spread of intraocular melanomas in a nude mouse model of human uveal melanoma. **Curr Eye Res** 12:347-358, 1993.

91. Pidherney MS, Alizadeh H, Stewart GL, McCulley JP, and Niederkorn JY: In vitro and in vivo tumoricidal properties of a pathogenic/free-living amoeba. **Cancer Letters** 72:91-98, 1993.

92. Stewart GL, Shupe K, Kim I, Silvany RE, Alizadeh H, McCulley JP and Niederkorn JY: Antibody-dependent neutrophil-mediated killing of *Acanthamoeba castellanii*. **Int Jour Parasitol**. 24:739-742, 1994.

93. Niederkorn JY and Mayhew E: "Subthreshold stimulation" of allospecific delayed hypersensitivity by corneal allografts. **Immunology** 80:605-610, 1993.

94. Ma, D, Comerford S, Bellingham, D, Sambrook, J, Gething, M.J, Alizadeh, H, Anand, R, Mellon, J, and Niederkorn, JY: Capacity of simian virus 40 T antigen to induce self tolerance but not immunological privilege in the anterior chamber of the eye. **Transplantation** 57:718-725, 1994.

95. Alizadeh H, Pidherney MS, McCulley, and Niederkorn JY: Apoptosis as a mechanism of cytolysis of tumor cells by a pathogenic free-living amoeba. **Infect Immun**. 62:1298-1303, 1994.

96. He Y-G, Mellon J, Apte R, and Niederkorn JY: Effect of LFA-1 and ICAM-1 antibody treatment on murine corneal allograft survival. **Invest Ophthalmol Vis Sci** 35:3218-3225, 1994.

97. Niederkorn JY, Lang LS, Ross J, Mellon J, and Robertson SM: Promotion of corneal allograft survival with leflunomide (HWA 486), a novel immunomodulating agent. **Invest Ophthalmol Vis Sci**. 35:3783-3785, 1994.

98. Ma D, Alizadeh H, Comerford SA, Gething MJ, Sambrook JF, Anand R, and Niederkorn JY: Rejection of intraocular tumors from transgenic mice by tumor-infiltrating lymphocytes. **Curr Eye Res**. 13:361-369, 1994.

99. Anand R, Ma D, Alizadeh H, Comerford SA, Sambrook JF, Gething, MJ, McLean I, and Niederkorn JY: Characterization of intraocular tumors arising in transgenic mice. **Invest Ophthalmol Vis Sci**. 35:3533-3539, 1994.

100. Li X-Y and Niederkorn JY: Effect of anti-ICAM-1 and anti-LFA-1 antibodies on the induction of anterior chamber-associated immune deviation. **Regional Immunol** 6:232-237, 1994.

101. McCulley JP, Alizadeh H, and Niederkorn JY: *Acanthamoeba* keratitis. **CLAO Jour**. 21:73-80, 1995.

102. Niederkorn JY: Effect of cytokine-induced migration of Langerhans cells on corneal allograft survival. **Eye** 9:215-218, 1995.

103. Ma D, Luyten GP, Luider TM, and Niederkorn JY: Relationship between natural killer cell susceptibility and metastasis of human uveal melanoma cells in a murine model. **Invest Ophthalmol Vis Sci**. 36:435-441, 1995.

104. Alizadeh H, He Y-G, McCulley JP, Ma D, Stewart GS, Via M, Haehling E, Niederkorn JY: Successful immunization against *Acanthamoeba* keratitis in a pig model. **Cornea** 14:180-186, 1995.

105. Ma D and Niederkorn JY: Efficacy of tumor-infiltrating lymphocytes in the treatment of hepatic metastases arising from transgenic intraocular tumors in mice. **Invest Ophthalmol Vis Sci**. 36:1067-1075, 1995.

106. Taylor WM, Pidherney MS, Alizadeh H, Niederkorn JY: In vitro characterization of *Acanthamoeba castellanii* cytopathic effect. **Jour Parasitol** 81:603-609, 1995.

107. Alizadeh H, Ma D, Bellingham D, Comerford SA, Gething MJ, Sambrook J, Niederkorn JY: Tissue-type plasminogen activator-induced invasion and metastasis of murine melanomas. **Curr Eye Res** 14:449-458, 1995.

108. He Y-G and Niederkorn JY: Depletion of donor-derived Langerhans cells promotes corneal allograft survival. **Cornea** 15:82-89, 1996.

109. Niederkorn JY, Mayhew E, He Y-G: Alloantigens introduced into the anterior chamber of the eye induce systemic suppression of delayed hypersensitivity to third-party alloantigens through "linked recognition". **Transplantation** 60:348-354, 1995.

110. Li X-Y, Mayhew E, Niederkorn JY: Anti-leukocyte-1 antibody treatment prevents the rejection of intraocular tumors and their metastases. **Curr Eye Res**. 14:719-726, 1995.

111. Haehling E, Niederkorn JY, and Stewart GL: *Trichinealla spiralis* and *Trichinella pseudospiralis* induce collagen synthesis by host fibroblasts in vitro and in vivo. **Int Jour Parasitol**. 25:1393-1400, 1995.

112. Ma D and Niederkorn JY: Transforming growth factor-ß down regulates major histocompatibility complex class I antigen expression and increases the susceptibility of uveal melanoma cells to natural killer cell-mediated cytolysis. **Immunology** 86:263-269, 1995.

113. Mitra MM, Alizadeh H, Gerard R, and Niederkorn JY: Characterization of a plasminogen activator produced by *Acanthamoeba castellanii*. **Molecular and Biochem Parasitol**. 73:157-164, 1995.

114. Niederkorn JY and Mayhew E: Role of B cells in the immune privilege of the eye. **Eur Jour Immunol** 25:2783-2787, 1995.

115. He Y-G, Mellon J, and Niederkorn JY: Effect of oral immunization on corneal allograft survival. **Transplantation** 61:920-926, 1996.

116. Park SS, Li L, Korn TS, Mitra MM, and Niederkorn JY: Effect of transforming factor beta on plasminogen activator production of cultured human uveal melanoma cells. **Curr Eye Res** 15:755-763, 1996.

117. Apte R and Niederkorn JY: Isolation and characterization of a unique natural killer cell inhibitory factor present in the anterior chamber of the eye. **Jour Immunol**. 156:2667-2673, 1996.

118. van Klink F, Taylor WM, Alizadeh H, Jager MJ, van Rooijen N, and Niederkorn JY: The role of macrophages in *Acanthamoeba* keratitis. **Invest Ophthalmol Vis Sci** 37:1271-1281, 1996.

119. Li X-Y, D'Orazio T, and Niederkorn JY. Role of Th1 and Th2 cells in anterior chamber-associated immune deviation. **Immunology** 89:34-40, 1996.

120. Ma D, Luyten GP, Luider TM, Jager MJ, and Niederkorn JY. Association between NM23-H1 gene expression and metastasis of human uveal melanoma in an animal model. **Invest Ophthalmol Vis Sci**. 37:2293-2301, 1996.

121. Niederkorn JY and Mellon J. Anterior chamber-associated immune deviation promotes corneal allograft survival. **Invest Ophthalmol Vis Sci**. 37:2700-2707, 1996.

122. Niederkorn JY. Immunoregulation of intraocular tumors. **Eye** 11:249-254, 1997.

123. Apte RS, Mayhew E, Niederkorn JY. Local inhibition of natural killer cell activity promotes the progressive growth of intraocular tumors. **Invest Ophthalmol Vis Sci** 38:1277-1282, 1997.

124. Blom DJR, de Waard-Siebinga I, Luyten GPM, Jager MJ, Apte R and Niederkorn JY. Effect of hyperthermia on expression of HLA- and HSP-molecules on three human ocular melanoma cell lines. **Melanoma Res** 7:103-109, 1997.

125. Ma D, Mellon J, and Niederkorn JY: Oral immunization as a strategy for enhancing corneal allograft survival. **Br J Ophthalmol**. 81:778-784, 1997.

126. Ma D, Gerard RD, Li X-Y, Alizadeh H, and Niederkorn JY: Inhibition of metastasis of intraocular melanomas by adenovirus-mediated gene transfer of plasminogen activator inhibitor type 1 (PAI-1) in an athymic mouse model. **Blood** 90:2738-2746, 1997.

127. Li X-Y and Niederkorn JY: Immune privilege in the anterior chamber of the eye is not extended to intraocular *Listeria monocytogenes*. **Ocular Immunol and Inflam**. 5:245-257, 1997.

128. van Klink F, Leher H, Jager MJ, Alizadeh H, Taylor W, and Niederkorn JY: Systemic immune response to *Acanthamoeba* keratitis in the Chinese hamster. **Ocular Immunol and Inflam**. 5:235-244, 1997.

129. Leher H, Silvany R, Alizadeh H, Huang J, and Niederkorn JY: Mannose induces the release of cytopathic factors from *Acanthamoeba castellanii.* **Infect Immun** 66:5-10, 1998.

130. D'Orazio TJ and Niederkorn JY: A novel role for TGF-ß and IL-10 in the induction of immune privilege. **Jour Immunol** 160:2089-2098, 1998.

131. Ma D, Li X-Y, Mellon J, and Niederkorn JY: Immunological phenotype of hosts orally tolerized with corneal alloantigens. **Invest Ophthalmol Vis Sci** 39:744-753, 1998.

132. Niederkorn JY: Anterior chamber-associated immune deviation. **Chem Immunol** 73:59-71, 1999.

132. D'Orazio TJ and Niederkorn JY: The nature of antigen in the eye has a profound effect on the cytokine milieu and resultant immune response. **Eur Jour Immunol** 28:1544-1553, 1998

133. Ma D and Niederkorn JY: Role of epidermal growth factor receptor in the metastasis of intraocular melanomas. **Invest Ophthalmol Vis Sci** 39:1067-1075, 1998.

135. Apte RS, Sinha D, Mayhew E, Wistow GJ, and Niederkorn JY: Cutting Edge: Role of macrophage migration inhibitory factor in inhibiting natural killer cell activity and preserving immune privilege. **Jour Immunol** 160:5693-5696, 1998.

136. D'Orazio TJ and Niederkorn JY: Splenic B cells are required for tolerogenic antigen presentation in ocular immune privilege. **Immunol** 95:47-55, 1998.

137. Li X-Y, De Marco BM, Mayhew ES, Niederkorn JY: Aqueous humor-borne factor upregulates Bcl-2 expression in corneal endothelial cells. **Curr Eye Res** 17:970-978, 1998.

138. Leher H, Kinoshita K, Alizadeh H, Zaragoza FL, He Y-G, and Niederkorn JY: Impact of oral immunization with *Acanthamoeba* antigens on parasite adhesion and corneal infection. **Invest Ophthalmol Vis Sci** 39:2337-2343, 1998.

139. Ma D, Mellon J, and Niederkorn JY: Conditions affecting enhanced corneal allograft survival by oral immunization. **Invest Ophthalmol Vis Sci** 39:1835-1846, 1998.

140. Leher HF, Alizadeh H, Taylor WM, Shea AS, Silvany RS, van Klink F, Jager MJ, and Niederkorn JY: Role of mucosal IgA in the resistance to *Acanthamoeba* keratitis. **Invest**

Ophthalmol Vis Sci 39:2666-2673, 1998.

141. Niederkorn JY: The Immune Privilege of Corneal Allografts. **Transplantation** 67:1503-1508, 1999.

142. Niederkorn JY, Alizadeh H, Leher H, and McCulley JP: The pathogenesis of *Acanthamoeba* keratitis. **Microbes and Infection** 1:437-443, 1999.

143. Leher H, Zaragoza F, Taherzadeh S, Alizadeh H, and Niederkorn JY: Monoclonal IgA antibodies protect against *Acanthamoeba* keratitis. **Exp Eye Res**.69:75-84, 1999.

144. D'Orazio TJ, DeMarco BM, Mayhew ES, and Niederkorn JY: Effect of aqueous humor on apoptosis of inflammatory cell types. **Invest Ophthalmol Vis Sci** 40:1418-1426, 1999.

145. Clark AF, Mellon J, Li X-Y, Ma D, Leher H, Apte R, Alizadeh H, Hegde S, McLenaghan A, Mayhew E, D'Orazio TJ, and Niederkorn JY: Inhibition of intraocular tumor growth by topical application of the angiostatic steroid anecortave acetate. **Invest Ophthalmol Vis Sci** 40:2158-2162, 1999.

146. Niederkorn JY, Chiang EY, Ungchusri T, Stroynowski I. Expression of a non-classical MHC class Ib molecule in the eye. **Transplantation** 68:1790-1799, 1999.

147. McCulley JP, Alizadeh H, Niederkorn JY. Diagnosis and management of *Acanthamoeba* keratitis. **CLAO Jour** 26:47-51, 2000.

148. Hargrave SL,, Hegde S, Taherzadeh S., Mayhew E, Niederkorn JY: Role of antibody in corneal allograft rejection. **Cornea** 19:521-525, 2000.

149. Niederkorn J.Y.: Anterior chamber-associated immune deviation. **Chem Immunol** 73:59-71, 1999.

150. Repp AC, Mayhew ES, Apte S, Niederkorn JY: Human uveal melanoma cells produce MIF to prevent lysis by NK cells. **Jour Immunol** 165:710-715, 2000.

151. Hegde S and Niederkorn JY: The role of cytotoxic T lymphocytes in corneal allograft rejection. **Invest Ophthalmol Vis Sci** 41:3341-3347, 2000.

152. D'Orazio TJ, Mayhew E, and Niederkorn JY: Ocular immune privilege promoted by the presentation of peptide on tolerogenic B cells in the spleen. II. Evidence for presentation by Qa-1. **Jour Immunol** 166:26-32, 2001.

153. Skelsey ME, Mellon J, and Niederkorn JY: Gamma delta T cells are needed for ocular immune privilege and corneal graft survival. **Jour Immunol** 166:4327-4333, 2001.

154. Hurt M, Apte S, Leher H, Howard K, Niederkorn JY, and Alizadeh H. Exacerbation of *Acanthamoeba* keratitis in animals treated with anti-MIP-2 or anti-neutrophil serum. **Infect Immun.** 69:2988-2995, 2001.

155. Niederkorn JY: Mechanisms of corneal graft rejection: The sixth annual Thygeson lecture. **Cornea** 20:675-679, 2001.

156. Alizadeh H, Apte S, El-Agha M-S, Li L, Hurt M, Howard K, Cavanagh HD, McCulley McCulley, and Niederkorn JY: Tear IgA and serum IgG antibodies against *Acanthamoeba* in patients with *Acanthamoeba* keratitis. **Cornea** 20:622-627, 2001.

157. McClellan K, Howard K, Niederkorn J, Alizadeh H: The effect of corticosteroid on *Acanthamoeba* cysts and trophozoites. **Invest Ophthalmol Vis Sci** 42:2885-2893, 2001.

158. Apte RS, Niederkorn JY, Mayhew E, Alizadeh H: Angiostatin produced by certain primary uveal melanoma cell lines impedes the development of liver metastases. **Arch Ophthalmol** 119: 1805-1809, 2001.

159. Repp AC, Mayhew ES, Howard K, Alizadeh H, Niederkorn JY: Role of Fas ligand in uveal melanoma-induced liver damage. **Graefe's Arch Clin Exp Ophthalmol** 239:752-758, 2001.

160. Aksozek A, McClelan K, Howard K, Niederkorn JY, Alizadeh H. Resistance of *Acanthamoeba* cysts to physical, chemical, and radiological conditions. **Jour Parasitol.** 88:621-623, 2002.

161. Niederkorn JY: Role of the innate and adaptive immune responses in *Acanthamoeba* keratitis. **Archivum Immunologiae et Therapiae Exp** 50:53-59, 2002.

162, Niederkorn JY, Mayhew E: Phenotypic analysis of oral tolerance to alloantigens: Evidence that the indirect pathway of antigen presentation is involved. **Transplantation** 73:1493-1500, 2002.

163. Hegde S, Mellon JK, Hargrave SL, Niederkorn JY: Effect of alloantibodies on corneal allograft survival. **Invest Ophthalmol Vis Sci** 43:1012-1018, 2002.

164. Niederkorn JY: Immune privilege in the anterior chamber of the eye. **Critical Rev Immunol** 22:13-46, 2002.

165. McClellan K, Howard K, Mayhew E, Niederkorn JY, Alizadeh H. Adaptive immune responses to *Acanthamoeba* cysts. **Exp Eye Res** 75:285-293, 2002.

166. Hargrave SL, Mayhew E, Niederkorn JY. Are corneal cells susceptible to antibody-mediated killing in corneal allograft rejection? **Transplant Immunol** 11:79-89, 2003.

167. Niederkorn JY. Immunology and immunomodulation of corneal transplantation. **Intern Rev Immunol** 21:173-196, 2002.

168 Hargrave S, Chu Y, Mendelblatt D, Mayhew E, Niederkorn J. Preliminary findings in corneal allograft rejection in patients with keratoconus. **Amer J Ophthalmol** 135:452-460, 2003.

169. Hargrave SL, Mayhew E, Mellon J, Niederkorn JY: MHC matching improves corneal allograft survival in mice with Th2-immune bias. **Transplantation** Proceedings 34: 3413-3415, 2002.

170. Hurt M, Proy V, Niederkorn J, Alizadeh H: The interaction of *Acanthamoeba castellanii* cysts with macrophages and neutrophils. **Jour Parasitol** 89:565-572. 2003.

171. Niederkorn JY: Immune privilege of corneal grafts. **Jour Leukocyte Biol** 74:167-171, 2003.

172. Alizadeh H, Howard K, Mellon J, Mayhew E, Rusciano D, and Niederkorn JY: Reduction of liver metastasis of intraocular melanoma by interferon-β gene transfer. **Invest Ophthalmol Vis Sci** 44:3042-3051, 2003.

173. Hurt M, Niederkorn JY, and Alizadeh H: Effects of mannose on *Acanthamoeba castellanii* proliferation and cytolytic ability to corneal epithelial cells. **Invest Ophthalmol Vis Sci** 44:3424-3431, 2003.

174. Skelsey ME, Mayhew E, and Niederkorn JY: $CD25^+$, IL-10 producing $CD4^+$ T cells are required for suppressor cell production and immune privilege in the anterior chamber of the eye. **Immunology** 110:18-29, 2003.

175. Wang S., Boonman ZFHM, Li H-C, He Y-G, Jager MJ, Toes REM, and Niederkorn JY: Role of TRAIL and interferon-γ in $CD4^+$ T cell-dependent tumor rejection in the anterior chamber of the eye. **Jour Immunol** 171:2789-2796, 2003.

176. Hurt M, Neelam, S, Niederkorn J, and Alizadeh H: Pathogenic *Acanthamoeba spp*. secrete a mannose-induced cytolytic protein that correlates with ability to cause disease. **Infect Immun** 71:6243-6255, 2003.

177. Skelsey ME, Mayhew E, and Niederkorn JY: Splenic B cells act as antigen presenting cells for the induction of anterior chamber-associated immune deviation. **Invest Ophthalmol Vis Sci** 44:5242-5251, 2003.

178. Hargrave SL, Hay C, Mellon J, Mayhew E, and Niederkorn JY: MHC-matched corneal

allografts fail to induce immune rejection in Th1-deficient hosts**. Invest Ophthalmol Vis Sci** 45:1188-1193, 2004.

179. Ren DH, Mayhew E, Hay C, Li H, Alizadeh H, and Niederkorn JY: Uveal melanoma expression of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) receptors and susceptibility to TRAIL-induced apoptosis. **Invest Ophthalmol Vis Sci** 45:1162-1168, 2004.

180. Niederkorn JY and Wang S: Immunology of intraocular tumors. **Ocular Immunol and Inflamm** 13:105-110, 2005.

181. Niederkorn, JY, Mayhew E, Mellon J, and Hegde S: Role of tumor necrosis factor receptor expression on anterior chamber-associated immune deviation (ACAID) and corneal allograft survival. **Invest Ophthalmol Vis Sci** 45:2674-2681, 2004.

181. Hegde S, Beauregard C, Mayhew E, and Niederkorn JY: $CD4^+$ T cell-mediated mechanisms of corneal allograft rejection: Role of Fas-induced apoptosis. **Transplantation** 79:23-31, 2005.

182. He Y-G, Myahew E., Mellon J, and Niederkorn JY: Expression and possible function of IL-2 and IL-15 receptors on human uveal melanoma cells. **Invest Ophthalmol Vis Sci** 45:4240-4246, 2004.

183. Li H, Niederkorn JY, Neelam S, Mayhew E, Word RA, McCulley JP, and Alizadeh H. Immunosuppressive factors secreted by human amniotic epithelial cells. **Invest Ophthalmol Vis Sci** 46:900-907, 2005.

184. Li H, Niederkorn JY, Neelam S, and Alizadeh H. Resistance and susceptibility of human uveal melanoma cells to TRAIL-induced apoptosis. **Arch Ophthalmol** 123:654-661, 2005.

185. Alizadeh H, Neelam S, Hurt M, and Niederkorn JY. Role of contact lens wear, bacterial flora, and mannose-induced pathogenic protease in the pathogenesis of amoebic keratitis. **Infect Immun** 73:1061-1068, 2005.

186. Beauregard, C, Stevens C, Mayhew E, and Niederkorn, J.Y. Cutting Edge: Atopy promotes Th2 responses to alloantigens and increases the incidence and tempo of corneal allograft rejection. **Jour Immunol**. 174: 6577-6581, 2005.

187. Wang S, Coleman EJ, Pop LM, Brooks KJ, Vitetta ES, and Niederkorn JY: Effect of an anti-CD54 (ICAM-1) monoclonal antibody (UV3) on the growth of human uveal melanoma cells transplanted heterotopically and orthotopically in SCID mice. **Int J Cancer** 118: 932-941, 2006.

188. Clarke DW, Alizadeh H, and Niederkorn JY: Failure of *Acanthamoeba castellanii* to produce

intraocular infections. **Invest Ophthalmol Vis Sci**. 46:2472-2478, 2005.

189. Niederkorn JY and Wang S: Immune privilege of the eye and fetus: parallel universes? **Transplantation** 80:1139-1144, 2005.

190. Stern ME, Siemasko K, Gao J, Duong A, Beauregard C, Calder V, and Niederkorn JY: Role of interferon-γ in a mouse model of allergic conjunctivitis. **Invest Ophthalmol Vis Sci** 46: 3239-3246, 2005.

191. Stern ME, Siemasko KF, and Niederkorn JY: The Th1/Th2 paradigm in ocular allergy. **Curr Opinion in Allergy and Clin Immunol** 5:446-450, 2005.

192. Li H, Niederkorn JY, Neelam S, Alizadeh H: Downregulation of survivin expression enhances sensitivity of cultured uveal melanoma cells to cisplatin treatment. **Exp Eye Res** 83:176-182, 2006.

193. Niederkorn JY, Stevens C, Mellon J, Mayhew E: $CD4^+$ T cell-independent rejection of corneal allografts. **Transplantation** 81:1171-1178, 2006.

194. Clarke DW and Niederkorn JY: The pathophysiology of *Acanthamoeba* keratitis. **Trends in Parasitology** 22:175-180, 2006.

195. Niederkorn JY, Stevens C, Mellon J, and Mayhew E: Differential roles of $CD8^+$ and $CD8^-$ T lymphocytes in corneal allograft rejection in "high-risk" hosts. **Amer Jour Transplant** 6:705-713, 2006.

196. Clarke DW and Niederkorn JY: The immunobiology of *Acanthamoeba* keratitis. **Microbes and Infection** 8:1400-1405, 2006.

197. Niederkorn JY, Stern ME, Pflugfelder SC, De Paiva CS, Corrales RM, Gao J, and Siemasko K: Desiccating stress induces T cell-mediated Sjögren's syndrome-like lacrimal keratoconjunctivitis. **Jour Immunol** 176:3950-3957, 2006.

198. Niederkorn JY: See no evil, hear no evil and do no evil: The lessons of immune privilege. **Nature Immunology** 7:354-359, 2006.

199. Ashour HM and Niederkorn JY: Peripheral tolerance via the AC of the eye: Role of B cells in MHC class I and MHC class II antigen presentation. **Jour Immunol** 176:5950-5957, 2006.

200. Niederkorn JY: Anterior chamber-associated immune deviation and its impact on corneal allografts. **Curr Opinion in Organ Transplantation** 11:360-365, 2006.

201. Clarke DW, Alizadeh H, and Niederkorn JY: Intracorneal instillation of latex beads induces

macrophage-dependent protection against *Acanthamoeba* keratitis. **Invest Ophthalmol Vis Sci** 47:4917-4925, 2006.

202. Garate M, Alizadeh H, Neelam S, Niederkorn JY, and Panjwani N: Oral immunization with *Acanthamoeba* mannose-binding protein provides protection against amoebic keratitis. **Infect Immun** 74:7032-7034, 2006.

203. Ashour H and Niederkorn JY: γδ T cells promote anterior chamber-associated immune deviation and immune privilege through their production of IL-10. **Jour Immunol** 177:8331-8337, 2006.

204. Dace D, Chen PW, Alizadeh H, and Niederkorn JY: Ocular immune privilege is circumvented by $CD4^+$ T cells, leading to the rejection of intraocular tumors in an IFN-γ-dependent manner. **Jour Leuk Biol** 81:421-429, 2007.

205. Dace DS, Chen PW, and Niederkorn JY. $CD8^+$ T Cells Circumvent Immune Privilege in the Eye and Mediate Intraocular Tumor Rejection by a TNF-α-Dependent Mechanism. **Jour Immunol** 178:6115, 2007.

206. Alizadeh H, Neelam S, and Niederkorn JY: Role of activated macrophages in *Acanthamoeba* keratitis. **Jour Parasitol** 93:1114-1120, 2007.

207. De Paiva CS, Villarreal AL, Corrales RM, Rahman HT, Chang VY, Farley WJ, Stern ME, Niederkorn JY, Li D-Q, and Pflugfelder SC: Dry eye-induced conjunctival epithelial squamous metaplasia is modulated by interferon-γ. **Invest Ophthalmol Vis Sci** 48:2553-2560, 2007.

208. Ashour HM and Niederkorn JY: Expansion of B cells is necessary for the induction of T cell tolerance elicited through the anterior chamber of the eye. **Int Arch Allergy and Immunol** 144:343-346, 2007.

209. Alizadeh H, Neelam S, and Niederkorn JY: Effect of immunization with the mannose-induced *Acanthamoeba* protein and *Acanthamoeba* plasminogen activator in mitigating *Acanthamoeba* keratitis. **Invest Ophthalmol Vis Sci** 48:5597-5604, 2007.

210. Chen PW, Mellon JK, Mayhew E, Wang S, He Y-G, Hogan N, and Niederkorn J: Uveal melanoma expression of indoleamine 2,3 deoxygenase: Establishment of an immune privileged environment by tryptophan depletion. **Exp Eye Res** 85:617-625, 2007.

211. Dace DS, Chen PW, and Niederkorn JY: $CD4^+$ T cell-dependent tumor rejection in an immune privileged environment requires macrophages. **Immunology** 123:367-377, 2008.

212. Li H, Alizadeh H, and Niederkorn JY: Differential expression of chemokine receptors on

uveal melanoma cells and their metastases. **Invest Ophthalmol Vis Sci** 49:636-643, 2008.

213. Niederkorn JY: Immune mechanisms of corneal allograft rejection. **Curr Eye Res** 32:1005-1016, 2007.

214. Yang W, Chen PW, Li H, Alizadeh H, and Niederkorn JY: PD-L1:PD-1 interactions contribute to the functional suppression of T cell responses to human uveal melanoma cells *in vitro*. **Invest Ophthalmol Vis Sci** 49:2518-2525, 2008.

215. Niederkorn JY: Emerging concepts in $CD8^+$ T regulatory cells. **Curr Opinion in Immunol** 20:327-331, 2008.

216. Alizadeh H, Lli H, Neelam S, and Niederkorn JY: Modulation of corneal and stromal matrix metalloproteinase by the mannose-induced *Acanthamoeba* cytolytic protein. **Exp Eye Res** 87: 286-291, 2008.

217. Niederkorn JY: Immune regulatory mechanisms in allergic conjunctivitis: Insights from mouse models. **Curr Opinion in Allergy and Clinical Immunol** 8:472-476, 2008.

218. Yang W, Li H., Chen PW, Alizadeh H, He Y, Hogan RN, and Niederkorn JY: PD-L1 expression on human ocular cells and its possible role in regulating immune-mediated ocular inflammation. **Invest Ophthalmol Vis Sci** 50:273-280, 2009.

219. Siemasko KF, Gao J, Calder VL, Hanna R, Calonge M, Pflugfelder SC, Niderkorn JY, and Stern ME: *In vitro* expanded $CD4^+CD25^+Foxp3^+$ regulatory T cells maintain a normal phenotype and suppress immune-mediated ocular surface inflammation. **Invest Ophthalmol Vis Sci** 49:5434-5440, 2008.

220. Niederkorn JY: Innate and adaptive immune responses in ocular *Acanthamoeba* infections. **Expert Rev Ophthalmol** 3:665-672, 2008.

221. De Paiva CS, Chotikavanich S, Pangelinan SB, Pitcher III JD, Fang B, Zheng X, Ping M, Farley WJ, Siemasko KF, Niederkorn JY, Stern ME, Li DQ, Pflugfelder SC. Th-17 disrupts corneal barrier function in desiccating stress. **Mucosal Immunology** 2:243-253, 2009.

222. Niederkorn JY, Chen PW, Mellon J, Stevens C, and Mayhew E: Allergic airway hyper-reactivity increases the risk for corneal allograft rejection. **Amer Jour Transplant** 9: 1017-1026, 2009.

223. Niederkorn JY: Role of NKT cells in anterior chamber-associated immune deviation. **Exp Rev Clin Immunol** 5: 137-144, 2009.

224. Li Haochuan, Yang W, Chen PW, Alizadeh H, and Niederkorn JY: Inhibition of chemokine receptor expression on uveal melanomas by CXCR4 siRNA blocks tumor cell invasion and liver metastasis of uveal melanoma cells. **Invest Ophthalmol Vis Sci** 50:5522-5528, 2009.

225. Niederkorn JY: Immune escape mechanisms of intraocular tumors. **Prog in Retinal and Eye Res** 28:329-347, 2009.

226. De Paiva CS, Hwang CS, Pitcher III JD, Pangelinan SB, Rahimy E, Chen W, Yoon K-C, Farley WJ, Niederkorn JY, Stern ME, Li D-Q, and Pflugfelder SC: Age-related T cell cytokine profile parallels corneal disease severity in Sjögren's syndrome-like keratoconjunctivitis sicca in CD25 KO mice. **Rheumatology** 49:246-258, 2010.

227. Niederkorn JY and Stein-Streilein J: History and physiology of immune privilege. **Ocular Immunol and Inflamm** 18:19-23, 2010.

228. Niederkorn JY: Cornea: Window to ocular immunology. **Curr Immunol Rev** 7:328-335, 2011.

229. Stern ME, Schaumburg CS, Dana RM, Calonge M, Niederkorn JY, and Pflugfelder S: Autoimmunity at the ocular surface: Clinical syndromes and animal models. **Mucosal Immunol** 3:425-442, 2010.

230. Niederkorn JY, Chen PW, Mellon J, Stevens C, and Mayhew E: Allergic conjunctivitis exacerbates corneal allograft rejection by activating Th1 and Th2 alloimmune responses. **Jour Immunol** 184:6076-6083, 2010.

231. Rahimy E, Pitcher III JD, Pangelinan SB, Chen W, Farley WJ, Niederkorn JY, Stern ME, Li D-Q, Pflugfelder SC, De Paiva CS: Spontaneous autoimmune dacryoadenitis in aged CD25KO mice. **Amer Jour Pathol** 177:744-753, 2010.

232. Niederkorn JY and Larkin DFP: Immune privilege of corneal allografts. **Ocular Immunol and Inflamm** 18:162-71, 2010.

233. Reyes NJ, Mayhew E, Chen PW, and Niederkorn JY: NKT cells are necessary for maximal expression of allergic conjunctivitis. **Int Immunol**. 22:627-636, 2010.

234. Ufret-Vincenty RL, Aredo B, Liu X, McMahon A, Chen PW, Sun H, Niederkorn JY, and Kedzierski W. Transgenic mice expressing variants of complement factor H develop AMD-like retinal findings. **Invest Ophthalmol Vis Sci** 51:5878-5887, 2010.

235. Cunnusamy K, Chen PW, and Niederkorn JY: IL-17 promotes immune privilege of corneal allografts. **Jour Immunol** 185:4651-4658, 2010.

236. Niederkorn JY: High-risk corneal allografts and why they lose their immune privilege. **Curr Opinion Allergy and Clin Immunol** 10:493-497, 2010.

237. Reyes NJ, Mayhew E, Chen PW, and Niederkorn JY: γδ T cells are required for maximal expression of allergic conjunctivitis. **Invest Ophthalmol Vis Sci.** 52:2211-2216, 2011.

238. Cunnusamy K, Paunicka K, Reyes NJ, Yang W, Chen PW, and Niederkorn JY: Two different regulatory T cell populations that promote corneal allograft survival. **Invest Ophthalmol Vis Sci** 51:6566-6574, 2010.

239. Cunnusamy K, Chen PW, and Niederkorn JY: Paradigm shifts in the role of $CD4^+$ T cells in keratoplasty. **Discovery Med** 54:452-461, 2010.

240. Yang, W, Li H, Mayhew E, Mellon J, Chen PW, and Niederkorn JY: NKT cell exacerbation of liver metastases arising from melanomas transplanted into either the eyes of spleens of mice. **Invest Ophthalmol Vis Sci** 52:3094-102, 2011.

241. Coursey TG, Chen PW, and Niederkorn JY: Abrogation of TNF-α expression prevents bystander destruction of normal tissues by iNOS-mediated elimination of intraocular tumors. **Cancer Research** 71:2445-2454, 2011.

242. Cunnusamy, K, Chen, P W, and Niederkorn, JY. IL-17A-dependent $CD4^+CD25^+$ Tregs promote immune privilege of corneal allografts. **Jour Immunol** 186:6737-6745, 2011.

243. Zhang X, Chen W, De Paiva CS, Volpe EA, Gandhi NB, Farley WJ, Li DQ, Niederkorn JY, Stern ME, Pflugfelder SC. Desiccating stress induces CD4+T cell-mediated Sjögren's syndrome-like corneal epithelial apoptosis via activation of the extrinsic apoptotic pathway by interferon-γ. **Amer Jour Pathol** (in press).

244. Schaumburg CS, Siemasko KF, De Paiva SC, Wheeler LA, Niederkorn JY, Pfugfelder SC, and Stern M.E. Ocular surface antigen presenting cells are necessary for autoreactive T cell-mediated experimental autoimmune lacrimal keratoconjunctivitis. **Jour Immunol** (accepted for publication).

245. Niederkorn JY. Immunotherapy for uveal melanoma: Obstacles and opportunities. **Retinal Physician** (in press).

246. Coursey TG, Chen PW, and Niederkorn. IL-17-dependent, IFN-γ-independent tumor rejection is mediated by cytotoxic T lymphocytes and occurs at extraocular sites, but is excluded from the eye. **Jour Immunol** (accepted for publication)

BOOK CHAPTERS, EDITORIALS, AND PROCEEDINGS (Non-Peer Review)

1. Niederkorn, J.Y., Shadduck, J.A., Albert, D., and Essex, M.: Humoral antibody response to FOCMA in feline sarcoma virus-induced ocular melanoma. In Feline Leukemia Virus. W.D. Hardy, M. Essex, and A. McClelland (eds). Elsevier North-Holland Inc., New York, 1980, pp. 181-185.

2. Chen, A.P., Essex, M., Mikami, T., Albert, D., Niederkorn, J.Y., and Shadduck, J.A.: The expression of transformation-related proteins in cat cells. In, Feline Leukemia Virus. W.D. Hardy, M. Essex, and A. McClelland (eds.) Elsevier North-Holland, Inc., New York, 1980, pp. 441-455.

3. Niederkorn, J.Y., and Streilein, J.W.: Analysis of the induction of anterior chamber-associated immune deviation (ACAID). In, Immunology and Immunopathology of the Eye. Masson Publishing Company, New York, 1982, pp. 222-225.

4. Streilein, J.W., and Niederkorn, J.Y.: Serologically active alloantigens determine the immunologic fate of allogeneic neoplasms placed in the anterior chamber of the eye. In, Immunology and Immunopathology of the Eye. Masson Publishing Company, New York, 1982, pp. 146-150.

5. Whittum, J.A., McCulley, J.P., Niederkorn, J.Y., and Streilein, J.W.: Unilateral inoculation of herpes virus into the anterior chamber produces a bilateral uveitis with a pathogenesis potentially related to anterior chamber-associated immune deviation (ACAID). In, Proceedings of the Third International Symposium on the Immunology and Immunopathology of the Eye. Masson Publishing Company, New York, 1982, pp. 215-221.

6. Niederkorn, J.Y., and Streilein, J.W.: Deviant immune responses to allogeneic tumor cells placed into the anterior chamber protect the intraocular neoplasm, but prevent metastases. Transplant. Proc. 15: 401-403, 1983.

7. Peeler, J.S., and Niederkorn, J.Y.: Effect of Langerhans cells on cytotoxic T lymphocyte responses to major and minor alloantigens expressed on heterotopic corneal allografts. Transplant. Proc. 19: 316-319, 1987.

8. Niederkorn, J.Y. and Peeler, J.S.: Regional differences in immune regulation: The immunogenic privilege of corneal allografts. Immunol. Res. 7: 247-255, 1988.

9. Niederkorn, J.Y. and Lynch, M.G.: Reconsidering the immunologic privilege in the anterior chamber of the eye. Transplant. Proc. 21: 259-260, 1989.

10. Niederkorn, J.Y.: Immune privilege and immune regulation in the eye. Adv. Immunol. 48:

199-226, 1990.

11. Niederkorn, J.Y.: Immunological barriers in the eye. In, Immunopharmacology of Epithelial Barriers. (Roy G. Goldie, editor). Academic Press. London. pp. 241-254, 1994.

12. McCulley, J.P., Alizadeh, H., and Niederkorn, J.Y.: *Acanthamoeba* keratitis. In, "Infectious Diseases of the Eye". Bialsiewicz A and Schaal KP (eds). Aeolus Press, Buren, The Netherlands. pp. 245-254, 1994.

13. Niederkorn, J.Y. and Ferguson, T.A.: Anterior chamber-associated immune deviation (ACAID). In, Ocular Infection and Immunity. Pepose, J.S., Holland, G.N., and Wilhelmus, K.R. (eds.). Mosby, St. Louis, MO. pp.96-103, 1996.

14. Foulks, G.N., Sanfilipo, F., and Niederkorn, J.Y.: Corneal allograft rejection. In, Ocular Infection and Immunity. Pepose, J.S., Holland, G.N., and Wilhelmus, K.R. (eds.). Mosby, St. Louis, MO. pp. 435-445, 1996.

15. Alizadeh, H., Niederkorn, J.Y., and McCulley, J.P.: *Acanthamoeba* keratitis. In, Ocular Infection and Immunity. Pepose, J.S., Holland, G.N., and Wilhelmus, K.R. (eds.). Mosby, St. Louis, MO. pp.1062- 1071, 1996.

16. Niederkorn, J.Y.: Immunopathogenesis of Intraocular Tumors. Progr. Retinal and Eye Res. 14:505-526, 1995.

17. Robertson SM, Lang LS, and Niederkorn JY: The efficacy of leflunomide in experimental models of ocular disease. In, Advances in Ocular Immunol. Nussenblatt, R.B., Whitcup, S.M., Caspi, R.R., and Gery, I. (eds). 1Elsevier Science B.V., pp. 253-257, 1994.

18. Niederkorn JY, Alizadeh H, Taylor W, He Y-G, McCulley JP, Stewart GL, Haehling E, and van Klink F: Oral immunization induces protective immunity against *Acanthamoeba* keratitis. In, Advances in Ocular Immunol. Nussenblatt, R.B., Whitcup, S.M., Caspi, R.R., and Gery, I. (eds). Elsevier Science B.V., pp. 281-284, 1994.

19. Niederkorn JY: The role of Langerhans cells in corneal immunology. In. Immunology of Corneal Transplantation. Zierhut M, Pleyer U, Thiel H-J (eds). Æolus Press, Buren, The Netherlands. 1994. pp. 99-115.

20. Niederkorn JY: Animal models of corneal transplantation. In, Immunology of Corneal Transplantation. Zierhut M, Pleyer U, Thiel H-J (eds). Æolus Press, Buren, The Netherlands. 1994. pp. 177-189.

21. Alizadeh H, Niederkorn JY, and McCulley JP. *Acanthamoeba* keratitis. In, Cornea. vol. II. Krachmer JH, Mannis MJ, and Holland EJ (eds). Mosby, St. Louis, MO. 1996. pp. 1267-

1273.

22. McCulley JP, Alizadeh H, and Niederkorn JY: *Acanthamoeba* keratitis. Japan Contact Lens Soc**.** (in press)

23. Alizadeh H, Niederkorn J, McCulley JP: Amebic diseases of the eye. In, Textbook of Ocular Pharmacology. Zimmerman TJ, Kooner KS, Sharir M, Fechtner RD (eds). Lippincott-Raven, Philadelphia. 1997. pp. 565-573.

24. Niederkorn JY: General principles in immunopathology. In, Handbook of Ocular Immunology. Keizer R, Jager M, Kijlstra A (eds). Æolus Press, Buren. 1998. pp. 7-10.

25. Niederkorn JY: New frontiers in corneal immunology. In, Current Opinions in Kyoto Cornea Club. Vol III. Kinoshita S, Ohashi Y (eds), Kugler Publications, The Hague. 1999. pp. 13-26.

26. Niederkorn JY: The immunology of corneal transplantation. In, Immuno-Ophthalmology. Pleyer U (ed), Karger Med Sci Publ., Basel. pp. 129-140, 1999.

27. Niederkorn J.Y., Alizadeh H., Leher H.F. McCulley J.P.: The immunobiology of *Acanthamoeba* keratitis. In, Immunopathology of Uveitis. Whitcup S (ed), Springer Seminar Series 21:147-160, 1999.

28. Niederkorn JY: Effect of oral tolerance on corneal allograft survival. In, Mucosal Immunology and Ocular Disease. Zierhut M, Forrester JV (eds), Æolus Press, The Netherlands. 2000, pp. 215-229.

29. Niederkorn JY: Immunology of uveal melanoma: Immunosuppressive factors and the basis for immunotherapy. In, *Ocular Oncology*. Albert DM and Polans A (eds), Marcel Dekker, Inc., New York. 2003, pp. 355-268.

30. Niederkorn JY:. Natural killer cells and uveal melanoma. In, Immunology of Ocular Tumors. Zierhut M, Jager M, and Ksander B (eds). Swets & Zeitlinger, Lisse, The Netherlands, 2002. pp. 73-82.

31. Niederkorn JY: Immune privilege of the eye. In, Animal Models of Human Inflammatory Skin Diseases. Chan LS (Ed). CRC Press, New York. pp. 143-154, 2004.

32. Niederkorn JY, Alizadeh H, Leher H, Apte S, Agha SE, Ling L, Hurt M, Howard K, Cavanagh HD, and McCulley JP: Role of tear anti-*Acanthamoeba* IgA in *Acanthamoeba* keratitis. In, Lacrimal Gland, Tear Film, and Dry Eye Syndromes 3. Basic Science and Clinical Relevance (Part B). Sullivan DA, Stern ME, Tsubota K, Dartt DA, Sullivan RM, and Bromberg BB (eds). Kluwer/Plenum, New York. 2002. pp. 845-850.

33. Niederkorn, J.Y.: Immune privilege and intraocular tumors. In, Uveal Melanoma. Jager, M.J, Niederkorn, JY and Ksander, BR (eds.). Swets & Zeitlinger, Lisse, The Netherlands. 2004, pp.207-215.

34. Niederkorn JY: Immune privilege of the eye and hair follicle. Jour Invest Dermatol Symp Proc 8:168-172, 2003.

35. Niederkorn, J.Y. Ocular immune privilege: Nature's strategy for preserving vision. Science & Medicine 9:320-331, 2004.

36. Niederkorn, J.Y.: Role of mucosal immunity in *Acanthamoeba* keratitis. In, Immunology of the Lacrimal Gland, Tear Film and Ocular Surface. Zierhut M, Stern ME, and Sullivan DA (eds), Taylor and Francis, London. 2005. pp. 117-125.

37. Niederkorn JY: Corneal immune privilege. The Ocular Surface.3:158-160, 2005.

38. Stern ME, Siemasko KF, Gao J, Calonge M, Niederkorn JY, Pflugfelder SC: Evaluation of ocular surface inflammation in the presence of dry eye and allergic conjunctival disease. The Ocular Surface 3:161-164, 2005.

39. Niederkorn JY: A renewed appreciation for ocular immune privilege (editorial). Arch Soc Esp Oftalmol 80:437-440, 2005.

40. Niederkorn JY and Kaplan HJ (editors).Immune Response and the Eye. 2nd Edition. Karger, Basel. 2007.

41. Niederkorn JY and Kaplan HJ. Rationale for immune response and the eye. In, Niederkorn JY and Kaplan HJ (editors).Immune Response and the Eye. 2nd Edition. Karger, Basel. 2007, pp. 1-3.

42. Kaplan HJ and Niederkorn JY. Regional immunity and immune privilege. In, Niederkorn JY and Kaplan HJ (editors).Immune Response and the Eye. 2nd Edition. Karger, Basel. 2007, pp. 11-26.

43. Niederkorn JY. Induction of anterior chamber-associated immune deviation. In, Niederkorn JY and Kaplan HJ (editors).Immune Response and the Eye. 2nd Edition. Karger, Basel. 2007, pp. 27-35.

44. Niederkorn JY. Regulatory T cells and the eye. In, Niederkorn JY and Kaplan HJ (editors).Immune Response and the Eye. 2nd Edition. Karger, Basel. 2007, pp. 131-139.

45. Hori J and Niederkorn JY. Immunogenicity and immune privilege of corneal allografts. In, Niederkorn JY and Kaplan HJ (editors).Immune Response and the Eye. 2nd Edition. Karger,

Basel. 2007, pp. 290-299.

46. Niederkorn JY: Therapeutic manipulation of ocular antigen-presenting cells in corneal transplantation. In, Antigen-Presenting Cells. Zierhut M, Ramnensee H-G, and Streilein JW (eds), Informa Healthcare, Inc., New York. 2007, pp. 157-164.

47. Alizadeh H, Niederkorn J Y, and McCulley JP: *Acanthamoeba* keratitis. In, Cornea. (Krachmer JY, Mannis MJ, and Holland EJ, Eds). 2nd Edition. Elsevier, Philadelphia. 2005, pp. 1115-1122.

48. Niederkorn JY and Dana MR: Immune system and the eye. In Ocular Therapeutics. Yorio T, Clark AF, and Wax MB (eds), Elsevier, Amsterdam. 2008. pp. 199-237.

49. Niederkorn JY: Atopy as a risk factor for corneal allograft rejection. In Immunology of Ocular Allergy. Zierhut M, Biedermann T, and Ono S (eds). Jaypee Brothers, New Delhi, 2010, pp. 184-191.

50. Niederkorn JY: Immune privilege of corneal allografts. In, Cornea and External Eye Disease. Reinhard T and Larkin DFP (eds). Springer Verlag Gmbh, Berlin. 2010. pp. 1-12.

51. Niederkorn JY: NK cells in the eye. In, Natural Killer Cells. Lotze M and Thomson A (eds). Elsevier, Amsterdam. 2010, pp. 385-401.

52. Niederkorn JY: Apoptosis and homeostasis in the eye. In, Apoptosis: Physiology and Pathology of Cell Death. Reed JC and Green D (eds). Cambridge University Press, Cambridge. 2010, (in press).

53. Niederkorn JY: Immunobiology of *Acanthamoeba* keratitis. In, Encyclopedia of the Eye. Dartt DA (ed). Elsevier, Oxford, 2010, pp. 273-278.

54. Niederkorn JY: Dynamic immunoregulatory processes that sustain immune privilege in the eye. In, Encyclopedia of the Eye. Dartt DA (ed). Elsevier, Oxford, 2010, pp. 63-68.

55. Jager MJ and Niederkorn JY: Immunobiology of uveal melanoma. In, Encyclopedia of the Eye. Dartt DA (ed). Elsevier, Oxford, 2010 (in press).

56. Niederkorn JY: Dynamic immunoregulatory processes that sustain immune privilege in the eye. In, Immunology, Inflammation and Diseases of the Eye. Dartt DA, D'Amore P, Dana R, and Niederkorn JY (eds). Academic Press, Amsterdam, 2011, pp. 38-43.

57. Niederkorn JY: Immunobiolgy of *Acanthamoeba* keratitis. In, Ocular Periphery and Disorders. Dartt DA, Dana R, Bex P, McCloon LK, D'Amore, P, and Niederkorn JY (eds). Academic Press, 2011, pp 413-418.

58. Niederkorn JY: Dynamic immunoregulatory processes that sustain immune privilege in the eye. In, Ocular Periphery and Disorders. Dartt DA, Dana R, Bex P, McCloon LK, D'Amore, P, and Niederkorn JY (eds). Academic Press, 2011, pp 361-366.

CURRENT GRANT SUPPORT

EY07641-23"Immunobiology of Corneal Allografts
PI: J.Y. Niederkorn
August 1, 2007- July 31, 2012

This project focuses on the immunobiology of corneal allografts. Two long-range goals are addressed. The first goal is to identify, characterize, and eventually manipulate the immune mechanisms that mediate corneal graft rejection. Even though immune rejection is the leading cause of corneal graft failure, over 90% of the first time corneal grafts enjoy immune privilege and thereby escape immune rejection. Therefore, the second goal of this project is to ascertain the mechanisms that provide the corneal allograft with immune privilege.

EY05631-24 "Transplant and Tumor Rejection Processes within the Eye"
PI: J.Y. Niederkorn
August 1, 2007 – July 31, 2012

This project deals with the immune privilege that occurs in the anterior chamber of the eye. The proposed studies focus on analyzing and characterizing the immunoregulatory mechanisms that sustain immune privilege. The primary model employs soluble proteinaceous antigens (not tumors or tumor antigens) and seeks to understand the cellular interactions that lead to down regulation of Th1 immune responses to antigens that occur inside the eye or that are introduced into the anterior chamber of the eye.

CA30276-30 "Immunological Modulation of Ocular Tumor Metastases"
PI: J.Y. Niederkorn
August 1, 2007 – July 31, 2012

This project deals entirely with the role of the immune system and tumor suppressor genes in controlling the metastasis of intraocular tumors. It does not focus on ocular immune privilege or the immunobiology of corneal allografts.

EY020799-02 "Core Grant for Vision Research"
PI: J.Y. Niederkorn
August 2011- July 2016

This project establishes three core facilities to support vision-related research at U.T. Southwestern Medical Center. The nine participating investigators direct research grants that are funded by the National Eye Institute (NEI). The investigators hold faculty appointments in the Departments of Ophthalmology, Physiology, Developmental Biology, Psychiatry, and Neuroscience. This grant establishes three core research facilities: a) tissue culture and hybridism facility; b) protein chemistry and virus facility; and c) imaging center. These core facilities enhance the NEI-funded research activities of vision scientists at U.T. Southwestern.

MENTORING OF GRADUATE STUDENTS (Dissertation Mentor)

John Peeler, Ph.D. (1983-1988)
Terrence Knisely, O.D., Ph.D. (1984-1989)
John Benson, Ph.D. (1987-1991)
Joel Ross, Ph.D. (1987-1991)
Rajendra Apte, M.D., Ph.D. (1993-1997)
Thomas D'Orazio, M.D.,Ph.D. (1994 –1998)
Henry Leher, Ph.D. (1994-1998)
Franciscus van Klink, M.D., Ph.D. (1995-1999) (Univ. Leiden Medical Center, Leiden, The Netherlands. (co-mentor with Martine J. Jager, M.D., Ph.D.)
Amanda Repp, Ph.D. (1996- 2000)
Sushma Hegde, Ph.D. (1996- 2001)
Molly Skelsey, Ph.D. (1998 – 2002)
Michael Hurt (1999- 2003)
Daniel Clarke (2001 – 2006)
Hossam Ashour (2001 – 2006)
Dru Dace (2001 – 2007)
Krishen Cunnusamy (2007 – 2011)
Terry Coursey (2007 – 2011)
Nancy Reyes (2008 – present)
Kathryn Paunicka (2009 – present)

Invited Lectures
(1998 - 2011)

1. Invited seminar speaker: Center for Neurological Diseases, Harvard University, July 31, 1998.
2. Invited seminar speaker: University of Connecticut Health Sciences Center, October 8, 1998.
3. Invited seminar speaker: Ohio State University, Department of Surgery, May 8, 2001.
4. Invited seminar speaker: University of Louisville, Kentucky Lions Eye Center. October 12, 2001.
5. Invited seminar speaker: University of Southern California. February 28, 2002
   Isaac Bekhor Lecture, Doheny Eye Institute, USC March 1, 2002.
6. Invited speaker: London Symposium on Frontiers in Ocular Immunology, Inflammation and Transplantation, September 22 – 24, 2002.
7. Visiting Professor, Tongji Medical University, Wuhan, Peoples Republic of China. October 25, 2003.
8. Invited lecturer: Case Western Reserve University, November 18, 2003.
9. Ophthalmology Grand Rounds. Case Western Reserve University Department of Ophthalmology. November 19, 2003.
10. Invited seminar speaker: Medical College of Georgia. December 9, 2003.
11. Guest speaker: Moorfields Bicentenary Meeting, March 16-19, 2005
12. Keynote Speaker: The Seventh National Symposium on Ocular Immunology of China, August 24-27, 2006, Dalian, Peoples Republic of China.
13. J. Wayne Streilein Lecture, Second International Workshop on Corneal Immunology, Berlin, June 15-17, 2006.
14. Invited seminar speaker: Leiden University Medical Center, June 12, 2006.
15. Invited Speaker: International Symposium on Uveitis in China, November 30 – December 1, 2007, Guangzhou, Peoples' Republic of China.
16. Invited seminar speaker: Emory University, May 12, 2006.
17. Invited seminar speaker: University of Louisville, February 9, 2007.
18. Invited speaker: Fifth International Conference on the Tear Film and Ocular Surface, Taormina Sicily, Sept 5-8, 2007.
19. Invited Speaker: 25th Biennial Corneal Research Conference, Boston, MA, October 12 & 13, 2007.
20. Invited seminar speaker: Univ.of Connecticut Health Sciences Center, November 8, 2007.
21. Invited seminar speaker: University of Oklahoma Health Science Center, January 28, 2008.
22. Invited seminar speaker: Medical College of Georgia, February 26, 2008.
23. Invited speaker: ARVO Summer Eye Research Conference, July 31 – August 2, 2008.
24. Invited seminar speaker: Nippon University School of Medicine, Tokyo, September 19, 2008.
25. Invited seminar speaker: University of North Texas Health Science Center, Fort Worth, Texas, December 5, 2008.
26. Crano Lecture: University of Pittsburgh School of Medicine, November 4, 2009.
27. J. Wayne Streilein Lecture: 26th Biennial Cornea Research Conference, Boston, MA, October 9, 2009.

28. Davidson Lecture: Baylor University (Waco, Texas) April 16, 2010.
29. Frontiers in Vision Science Lecture: New England Eye Center (December 7, 2010)
30. Schepens Eye Research Institute: March 11, 2011.
31. Medical College of Wisconsin Symposium on Inflammation in Ophthalmology (September 10, 2011) Invited speaker (two presentations)
32. Distinguished Lecture in Vision Science: University of Buffalo (October 20, 2011)