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

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

### EDUCATION:

<u>Date</u>	<u>Institution</u>	<u>Degree Received</u>
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:**

<u>Date</u>	<u>Institution</u>	<u>Position</u>
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  
American Association for Cancer Research  
American Association of Immunologists (AAI)  
Transplantation Society  
Association for Research in Vision and Ophthalmology (ARVO)  
American Society for Microbiology (ASM)  
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. Faculty appointment in Graduate School of Biomedical Sciences: Immunology Graduate Program (1980-Present) and Molecular Microbiology Graduate Program (1991-2008)
5. Module Leader and Lecturer - Parasitology Module. Second Year Medical Students (1986-Present)
6. Chairman: Institutional Review Board for Animal Research (1987-1989)
7. President: U. T. Southwestern Chapter of Sigma Xi Research Society (1990)

8. President: Southwestern Association of Parasitologists (SWAP) (1994)
9. Chairman: Examination Committee for Graduate Studies Program in Immunology (1994 -1999)
10. Council Member: International Ocular Inflammation Society (1995 - 2004)
11. Board of Scientific Advisors for the Tulane Regional Primate Research Center (1997-2000)
12. Member of Scientific Advisory Committee of the Eye and Ear Foundation of Pittsburgh (2000-2003)
13. Reviewer for research and fellowship grants submitted to The Wellcome Trust (1998-present)
14. Reviewer for Veterans' Administrations Merit Review applications (1996- present; approximately 2 applications/yr)
15. Member of Executive Committee, American Uveitis Society (1997 – 2003)
16. 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- 2012)

Deputy Editor – American Journal of Transplantation (2011- present)

Editorial Board – Journal of Leukocyte Biology (2013 - present)

## **AWARDS:**

Research to Prevent Blindness. 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 microsporidian 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 oncavirus-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 (ACAIID) 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.
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#### **BOOK CHAPTERS, EDITORIALS, AND PROCEEDINGS (Non-Peer Review)**

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## CURRENT GRANT SUPPORT

### Ongoing Research Support

**R01 EY007641-25**      Niederkorn (PI)      December 1, 2012 – November 30, 2016

#### **“Immunobiology of corneal allografts”**

This project focuses on the immunobiology of corneal allografts. The immunological studies are directed at analyzing and immunodominant histocompatibility antigens responsible for eliciting corneal graft rejection.

Role: PI

**R01 CA030276-32**      Niederkorn (PI)      February 5, 2013 – December 31, 2018

#### *“Immunological modulation of ocular tumor metastases”*

This project deals entirely with the role of the immune system and tumor suppressor genes in metastasis of intraocular neoplasms.

Role: PI

**R01 EY005631-28**      Niederkorn (PI)      March 1, 2013 – February 28, 2016

#### *“Transplant and tumor rejection processes within the eye”*

This project deals with the immunoregulatory mechanisms that are responsible for the immunological privilege of the anterior chamber.

Role: PI

**1P30EY020799-03**      Niederkorn (PI)      August 2011- July 2016

#### *“Core Grant for Vision Research”*

The goal of this project is to establish and maintain core facilities for cell culture, biochemistry, and high resolution imaging to support vision researchers at UT Southwestern Medical Center.  
Role: PI

### **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)  
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