

CURRICULUM VITAE

J. WAYNE STREILEIN, M.D.

PERSONAL

Name: J. Wayne Streilein, M.D.
Born: June 19, 1935, Johnstown, Pennsylvania
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E-mail Address: waynes@vision.eri.harvard.edu
Home Address: 44 Neptune St., Beverly, MA 01915
Current Rank: President, The Schepens Eye Research Institute, Boston, MA
Charles L. Schepens Professor & Vice-Chair, Dept. Ophthalmology, and
Professor, Dept. of Dermatology, Harvard Med School, Boston, MA
Status: Full Time
Citizenship: U.S.A.
Marital Status: Married Joan Stein-Streilein
Three children Laura Streilein Berend, William W. and Robert D. Streilein
Military Status: 1961-67 Completed active U.S. Army Reserve commitments. Honorable discharge.

HIGHER EDUCATION

1941-1952 Richland Township Grade and High Schools, Geistown, Pennsylvania
1952-1956 Gettysburg College, Gettysburg, Pennsylvania, A.B. in Chemistry
1956-1960 University of Pennsylvania School of Medicine, M.D. degree

POST DOCTORAL TRAINING

1960-1961 Intern, Hospital of University of Pennsylvania
1961-1963 Resident in Medicine, Hospital of University of Pennsylvania
1963-1964 Fellow in Allergy, Hospital of University of Pennsylvania
1964-1965 Postdoctoral Fellow (NIH) The Wistar Institute
1965-1966 Postdoctoral Fellow (NIH) Department of Medical Genetics, University of Pennsylvania

BOARD CERTIFICATION AND LICENSURES

1960 License to practice Medicine, State of Pennsylvania
1971 License to practice Medicine, State of Texas
1985 License to practice Medicine, State of Florida

PROFESSIONAL EXPERIENCES

1966-1970 Assistant Professor, Department of Medical Genetics, University of Pennsylvania
1966-1971 Assistant Professor, Department of Medicine, University of Pennsylvania
1970-1971 Associate Professor, Department of Medical Genetics, University of Pennsylvania
1971-1976 Associate Professor, Department of Medicine, U.T. Southwestern Medical School, Dallas, TX
1971-1984 Professor and Associate Director, Department of Cell Biology, U.T.S.M.S., Dallas, TX
1976-1984 Professor, Department of Medicine, U.T.S.M.S., Dallas, TX
1984-1993 Professor & Chairman, Dept Microbiology/Immunology, Univ Miami Schl Med, Miami, FL
1984-1993 Professor, Departments of Medicine & Ophthalmology, Univ of Miami Schl Med, Miami, FL
1993-2000 DeWalt and Marie H. Ankeny Director of Research, The Schepens Eye Research Inst., Boston, MA
1993- Professor & Vice Chair, Department of Ophthalmology, Harvard Medical School, Boston, MA

1994- Professor, Department of Dermatology, Harvard Medical School, Boston, MA
 1995- President, The Schepens Eye Research Institute, Boston, MA
 2001- Charles L. Schepens Professor of Ophthalmology, Harvard Medical School, Boston, MA

GRANTS AND CONTRACTS RECEIVED WITHIN PAST FIVE YEARS

Anterior Chamber Influence on Response to Ocular Antigen, NIH EY-05678 (Merit Award 1990)
 Role of Langerhans Cells in Contact Hypersensitivity, NIH AI-22072, NIH AR-44130
 Immunobiology of Cornea Transplants in Mice, NIH EY-10765
 Serum Factor that inhibits Langerhans Cells, Kirin Brewery Pharmaceuticals
 Immunobiology of retinal transplantation, NIY EY-09595
 Assay for hapten-specific priming of T cells, NIOSH 03650

INSTITUTIONAL ADMINISTRATIVE AND COMMITTEE RESPONSIBILITIES

1973-1974 Chairman, Faculty Seminar Program, Southwestern Medical School
 1975-1984 Member, Promotions and Tenure Committee, Southwestern Medical School
 1975-1980 Chairman, Curriculum Committee, Southwestern Medical School
 1985-1992 Chairman, Medical Faculty Colloquium, University of Miami School of Medicine
 1985-1989 Chairman, AIDS Advisory Committee, University of Miami School of Medicine
 1992-1993 Member, Dean's Ad Hoc Advisory Committee, University of Miami School of Medicine
 1992-1993 Deputy Director for Laboratory, Sylvester Comprehensive Cancer Center
 1993- Member, Executive Committee, Harvard Department of Ophthalmology
 1995- Corporator, Schepens Eye Research Institute
 1999- Sub-Committee of Professors, Harvard Medical School
 1966-1969 Pennsylvania Plan Scholar
 1968 C.R. & M.F. Lindback Found Award for Outstanding Teaching, Univ of Pa Schl of Med
 1969-1974 John and Mary R. Markle Scholar in Academic Medicine
 1970-1971 Research Career Development Awardee of U.S. Public Health Service
 1979 Sommer Memorial Lectureship, University of Oregon Medical Center, Portland, OR
 1982 Honor Lecture, Symposium to commemorate Dr. Thomas B. Fitzpatrick, Boston, MA
 1983 Julius Stone Honor Lecture, American Dermatology Society for Allergy and Immunology
 1984 9th Morris H. Samitz Lecture in Cutaneous Medicine, Univ of Pennsylvania School of Medicine
 1984 Recipient, Alcon Research Institute Award
 1985 Visiting Professor, Retina Foundation, Boston, MA
 1988 Visiting Professor, NIH, Bethesda, MD
 1990 Wellcome Visiting Professor, Washington University School of Medicine, St. Louis, MO
 1990 Merit Award, National Eye Institute, NIH
 1992 Tapped for Omicron Delta Kappa, University of Miami, Miami, FL
 1993 Distinguished Service Award, American Association of Immunologists
 1994 Visiting Professor, Tamilnadu Dr. M.G.R. Med Univ, and Vision Research Foundation, Madras, India
 1994 Visiting Professor, Qingdao Medical School, Qingdao, China
 1995 Visiting Professor, Casey Eye Institute, U. Oregon Health Science Center, Portland, OR.
 1995 Visiting Professor, Dept. of Neuropharmacology, Scripps Institute, La Jolla, CA.
 1995 Visiting Professor, Immunology Graduate Program, Boston U. School of Medicine, Boston, MA.
 1996 Proctor Award, Association for Research in Vision and Ophthalmology
 1996 Responsible Conduct of Research Award, Harvard Medical School, Boston, MA.
 1996- Who's Who in the World
 1997 Selected "Dermatologist of the World", Nishinohon Journal of Dermatology, Fukuoka, Japan
 1998 Visiting Professor, Dept. Ophthalmology, Emory University School of Medicine, Atlanta, Georgia
 1998 Visiting Professor, Immunology Program, U. of Pennsylvania School of Medicine, Philadelphia, Pa.
 1999 Jack R. Battisto Lecturer in Immunological Tolerance, Cleveland Clinic Foundation, Cleveland, Ohio
 1999 Research to Prevent Blindness Senior Scientific Investigator Award

2000 Nominated for Berger Excellence in Mentoring Award, Harvard Medical School
 2001 Charles L. Schepens Professor of Ophthalmology, Harvard Medical School
 2001 Outstanding Alumnus, Gettysburg College

SOCIETY MEMBERSHIPS AND OFFICES

1967 American Association of Immunologists
 1968 The Transplantation Society
 1969 Experimental Hematology Society
 1974 American Society for Clinical Research
 1974 American Society of Hematology
 1975 American Association for the Advancement of Science
 1976 New York Academy of Science
 1978 The Hamster Society
 1979 Society for Investigative Dermatology
 1979 Association for Research in Vision and Ophthalmology
 1983 American Society of Microbiology
 1984 American Association of Medical Microbiology and Immunology Chairs
 1985-1988 Finance Committee, American Association of Immunologists
 1998 American Uveitis Society (President, 1999-2000)
 1993- Council, American Uveitis Society
 1989-1993 Committee on Public Affairs; Chair, American Association of Immunologists
 1990-1992 Council, American Association of Medical Microbiology and Immunology Chairs
 1992-1993 President-elect, American Association of Medical Microbiology & Immunology Chairs
 1994 International Ocular Inflammation Society
 1995 Schepens International Society
 1996 Awards Committee, ARVO
 1996 International Society for Eye Research
 1999 International Uveitis Study Group (Honorary Member)

EDITORIAL RESPONSIBILITIES

REGIONAL IMMUNOLOGY, Editor-In-Chief (1987 - 1994)
 TRANSPLANTATION, Editorial Board
 JOURNAL OF DERMATOLOGIC RESEARCH, Editorial Board
 JOURNAL OF OCULAR INFLAMMATION AND IMMUNITY, Editorial Board
 JAPANESE JOURNAL OF OPHTHALMOLOGY, Editorial Board
 JOURNAL OF IMMUNOLOGY, Associate Editor
 JOURNAL OF CLINICAL AND EXPERIMENTAL HEMATOLOGY, Editorial Board

STUDY SECTIONS, COUNCIL MEMBERSHIPS, SCIENTIFIC ADVISORY BOARDS

Vision Research Programs Committee, National Eye Institute (1983-86)
 Advisory Council, National Institute of Allergy and Infectious Diseases (1990-94)
 Data & Safety Monitoring Committee, Collaborative Cornea Transplantation Study (1986-1992)
 Scientific Advisory Committee, Alcon Research Institute, 1996 - 2001
 Medical Advisory Committee, American Association of Tissue Banks, 1996 -
 Scientific Advisory Board, Organogenesis, Inc., 1996 -
 Member, Board of Trustees, The New England College of Optometry, 1997 -
 Member, National Advisory Eye Council's Vision Research Program Planning Comm., Retinal Diseases Panel, 1997
 Member, Scientific Advisory Board, Proneuron, Inc., Rehovot, Israel, 1997 -
 National Advisory Eye Council, National Eye Institute, (2000 -

CONSULTANTSHIPS

Alcon Laboratories, Inc., Fort Worth, TX
 Allergan, Los Angeles, CA
 ConvaTec, Princeton, NJ
 Oculon, Cambridge, MA
 Alza Laboratories, Palo Alto, CA.
 Novartis, Geneva, Switzerland

CONVENED SYMPOSIA, CONFERENCES, MEETINGS

IMMUNO-ASPECTS OF THE SPLEEN, J. Battisto & J. W. Streilein, Cleveland, Ohio, May, 1975.
 HAMSTER IMMUNE RESPONSES: EXPERIMENTAL MODELS LINKING IMMUNOGENETICS, ONCOGENESIS AND VIRAL IMMUNITY, J. W. Streilein, Dallas, Texas, October, 1977.
 HAMSTER IMMUNE RESPONSES IN INFECTIOUS AND ONCOLOGIC DISEASES, J. W. Streilein, W. Duncan, J. Stein-Streilein, D. Hart., Dallas, Texas, October, 1980.
 ADVANCES IN GENE TECHNOLOGY: MOLECULAR BIOLOGY OF THE IMMUNE SYSTEM, J. W. Streilein, B. Blomberg, R. Voellmy, Miami, Florida, January, 1985.
 ADVANCES IN GENE TECHNOLOGY: THE MOLECULAR BIOLOGY OF IMMUNE DISEASES AND THE IMMUNE RESPONSE, J. W. Streilein, B. Blomberg, Y-H. Chin, D. Lopez, T. Malek, E. Podack, J. Stein-Streilein, W. Whelan., Miami, Florida, January 1990.
 THIRD INTERNATIONAL SYMPOSIUM ON RECENT DEVELOPMENTS IN THE IMMUNOPATHOLOGY OF INTRAOCULAR INFLAMMATION. J.W.Streilein, S.Cousins, B.Ksander, W.Culbertson, L. Jiang, Miami, Florida, October, 1993.
 NINETEENTH BIENNIAL CORNEA RESEARCH CONFERENCE, J. W. Streilein & A. Adamis, Boston, Mass., October, 1995.
 TWENTIETH BIENNIAL CORNEA RESEARCH CONFERENCE, A. Adamis & J. W. Streilein, Boston, Mass., Sept., 1997.

RESEARCH INTERESTS

1. Ocular immunology; anterior chamber as privileged site; mechanisms of corneal allograft immunity. Retinal transplantation.
2. Cutaneous immunology; role of Langerhans cells in antigen presentation and immunogenicity of skin as an allograft. Graft-versus-host reactions in the skin and role of passenger cells. Effect of ultraviolet light.
3. Neonatal transplantation tolerance; immunoregulation; role of spleen in allograft rejection process; selective stimulation/suppression of humoral and cellular immune responses.

SCIENTIFIC ARTICLES IN REFEREED JOURNALS

1. Ramseier, H., Streilein, J.W. Homograft sensitivity reactions in irradiated hamsters. *The Lancet* i: 622- 624. 1965.
2. Streilein, J.W., Billingham, R.E., and Silvers, W.K. Progress in the determination of histocompatibility. *J.A.M.A.* 195:351-355.
3. Streilein, J.W., and Hildreth, E.A. Tolerance to bovine gamma globulin in adult guinea pigs. *J. Immunol.* 96:1027-1034. 1966.
4. Streilein, J.W., Hildreth, E.A. Ramseier, H., and Kornblum, J. The irradiated hamster test: A new method of donor selection for homotransplantation in man. *Ann. Int. Med.* 65:511-520. 1966.
5. Streilein, J.W. and Barker, C.F. Transplantation Immunity and delayed cutaneous hypersensitivity reactions in dogs. *J. Immunol.* 98:601-608. 1967.
6. Streilein, J.W. and Billingham, R.E. Cutaneous hypersensitivity reactions to cellular isoantigens in rats. *J. Exp. Med.* 126:455-473. 1967.
7. Streilein, J.W. and Billingham, R.E. An evaluation of the irradiated hamster test as a predictive test for histocompatibility in various species. *Transplantation* 6:694-705. 1968.
8. Taylor, F.B. and Streilein, J.W. Partial identification of a delayed reaction effector substance from homologous lymphoid cell mixtures. *Transpl. Proc.* 1:624-625. 1969.
9. Streilein, J.W. and Billingham, R.E. An analysis of the genetic requirements for delayed cutaneous hypersensitivity reactions to transplantation antigens in mice. *J. Exp. Med.* 131:409-427. 1970.
10. Streilein, J.W. and Billingham, R.E. An analysis of graft-versus-host disease in Syrian hamsters. I. The epidermolytic syndrome: Description and studies on its procurement. *J. Exp. Med.* 132:163-180. 1970.
11. Streilein, J.W. and Billingham, R.E. An analysis of graft-versus-host disease in Syrian hamsters. II. The epidermolytic syndrome: Studies on its pathogenesis. *J. Exp. Med.* 132:181-197. 1970.
12. Streilein, J.W. Graft-versus-host disease in hamsters: What is the target tissue? *Exper. Hematol.* No. 20:49-50. 1970.
13. Streilein, J.W., Zeiss, I., and Steinmuller, D. Studies on immune lymphocyte transfer reactions in murine homologous cell chimeras. *Transplantation* 10:403-410. 1970.
14. Streilein, J.W. A common pathogenesis for the lesions of graft-versus-host disease. *Transpl. Proc.* 3:418-421. 1971.
15. Shaffer, C.F., Streilein, J.W., Freedburg, P.S., and Sherman, J. Studies on antilymphocyte serum and transplantation immunity in Syrian hamsters. *Transplantation* 11:396-403. 1971.
16. Streilein, J.W. Pathologic lesions of GVH disease in hamsters: Antigenic target versus "innocent bystander," *Progr. Exp. Tumor Res.* 16:396-408. 1971.
17. Zakarian, S., Streilein, J.W. and Billingham, R.E. Studies on transplantation antigen extracts in Syrian hamsters. *Proc. Royal Society of London B* 180:1-20. 1972.

SCIENTIFIC ARTICLES IN REFEREED JOURNALS (cont.)

18. Streilein, J.W. and Streilein, J.S. An analysis of graft-versus-host disease in Syrian hamsters. III Hematologic manifestations: description and studies on pathogenesis. *Transplantation* 13:378-390. 1972.
19. Streilein, J.W. An analysis of graft-versus-host disease in Syrian hamsters. IV. Alterations in lymphoid tissues and their relation to the "refractory state," *J. Exp. Med.* 135:567-578. 1972.
20. Streilein, J.W. and Tomar, R.H. Consumptive coagulopathy in the pathogenesis of graft-versus-host disease. *Exp. Hematol.* 22:39-41. 1972.
21. Streilein, J.W. and Stone, M.J. GVH disease: Unmasking of forbidden clones. *Transpl. Proc.* 5:861-864. 1973.
22. Streilein, J.W. and Streilein, J.S. Immunologic reactivity to weak transplantation antigens: Factors which favor sensitization rather than tolerance. *J. Natl. Cancer Inst.* 51:1589-1595. 1973.
23. Kaplan, H.J. and Streilein, J.W. Do immunologically privileged sites require a functioning spleen? *Nature* 251:553-554. 1974.
24. Streilein, J.W., Grebe, S.C., and Kaplan, H.J. An immunoregulatory role for the spleen in transplantation. *Transpl. Proc.* 7:349-354. 1975.
25. Streilein, J.W., Stone, M.J., and Duncan, W.R. Studies on the specificity of autoantibodies produced in systemic graft-versus-host disease. *J. Immunol.* 114:255349-260. 1975.
26. Kaplan, H.J., Stevens, T.R. and Streilein, J.W. Transplantation immunology of the anterior chamber of the eye. I. An intra-ocular graft-versus-host reaction (Immunogenic Anterior Uveitis). *J. Immunol.* 115:800-804. 1975.
27. Kaplan, H.J., Streilein, J.W., and Stevens, T.R. Transplantation immunology of the anterior chamber of the eye. II. Immune response to allogeneic cells. *J. Immunol.* 115:805-810. 1975.
28. Streilein, J.W. and Read, C.B. A mathematical model of immunoregulation where the spleen has a pivotal role. *J. Theor. Biol.* 61:363. 1976.
29. Streilein, J.W., Kaplan, H.J. and Toben, H.R. Splenic regulation of transplantation immunity in rats and not in hamsters in "Immunoaspects of the Spleen," J. Battisto and J.W. Streilein, Eds., North-Holland, Inc., p. 321. 1976.
30. Grebe, S.C. and Streilein, J.W. Disseminated systemic expression of the 'local' popliteal lymph node assay in rats. *Transplantation* 22:245. 1976.
31. Kaplan, H.J. and Streilein, J.W. Immunologic privilege within the anterior chamber of the eye. *Transpl. Proc.* IX:1193-1195. 1977.
32. Duncan, W.R. and Streilein, J.W. The major histocompatibility complex in Syrian hamsters. *Transpl. Proc.* IX:571-573. 1977.
33. Lause, D and Streilein, J.W. Hamsters, unlike rats, fail to regulate the response of immunocompetent cells to alloantigens. *Transpl. Proc.* X:819-822. 1977.
34. Duncan, W.R. and Streilein, J.W. Analysis of the major histocompatibility complex in Syrian hamster III. Cellular and humoral immunity to alloantigens. *J. Immunol.* 118:832-839. 1977.

SCIENTIFIC ARTICLES IN REFEREED JOURNALS (cont.)

35. Lause, D.B. and Streilein, J.W. An in vivo and in vitro analysis of the alloantigen response in Syrian hamsters. *Transplantation* 25:211-217. 1977.
36. Streilein, J.W. and Wiesner, J.B. Influence of splenectomy on first set rejection reactions of C57BL/6 females to male skin isografts. *J. Exp. Med.* 146:809-816. 1977.
37. Streilein, J.W., Duncan, W.R., and Thompson, S.A. SD determinants and failure of cellular collaboration in hamsters. *Transpl. Proc.* XI:1229-1233. 1977.
38. Forman, J., Klein, J., and Streilein, J.W. Spleen cells from animals neonatally tolerant to H-2K^k antigens recognize trinitrophenol-modified spleen cells. *Immunogenetics* 5:561-567. 1977.
39. Streilein, J.W. Clark Humble, an Immunolegend of Our Time. *Immunogenetics* 4:1-6. 1977.
40. Streilein, J.W. and Klein, J. Neonatal tolerance induction across regions of H-2 complex. *J. Immunol.* 119:2147-2150. 1977.
41. Zinkernagel, R.M., Callahan, G.N., Streilein, J.W., and Klein, J. Neonatally tolerant mice fail to react against virus-infected tolerated cells. *Nature* 266:837-839. 1977.
42. Kaplan, H.J., and Streilein, J.W. Immune response to immunization via the anterior chamber of the eye. I. F₁ lymphocyte-induced immune deviation. *J. Immunol.* 118:809-814. 1977.
43. Duncan, W.R., and Streilein, J.W. Analysis of the major histocompatibility complex in Syrian hamsters. I. Skin graft rejection, GvH reactions, mixed lymphocyte reactions, and immune response gene in inbred strains. *Transplantation* 25:12-16. 1978.
44. Duncan, W.R. and Streilein, J.W. Analysis of the major histocompatibility complex in Syrian hamsters. II. Linkage studies. *Transplantation* 25:17-22. 1978.
45. Zinkernagel, R.M., Callahan, G.N., Althage, A., Cooper, S., Streilein, J.W. and Klein, J. The lymphoreticular system in triggering virus plus self-specific cytotoxic T cells: evidence for T help. *J. Exp. Med.* 147:897-911. 1978.
46. Konetzki, W.S. and Streilein, J.W. Graft-versus-host reactions within the thyroid gland may evoke *pari passu* autoimmune thyroiditis. *Transplantation* 25:240-243. 1978.
47. Kaplan, H.J. and Streilein, J.W. Immune response to immunization via the anterior chamber of the eye. II. An analysis of F₁ lymphocyte induced immune deviation. *J. Immunology* 120:689-693. 1978.
48. Duncan, W.R. and Streilein, J.W. Definition of the major histocompatibility complex equivalent in Syrian hamsters. *Fed. Proc.* 37:2048-2049. 1978.
49. Lause, D.B. and Streilein, J.W. Can hamsters suppress allogeneic responsiveness? *Fed. Proc.* 37:2050- 2051. 1978.
50. Streilein, J.W. and Stein-Streilein, J. Allogeneic reactions, "adjuvant effect" and response to weak transplantation antigens. *Fed. Proc.* 37:2052-2054. 1978.

SCIENTIFIC ARTICLES IN REFEREED JOURNALS (cont.)

51. Zinkernagel, R.M., Althage, A., Jensen, F., Streilein, J.W., and Duncan, W.R. Cell-mediated immunity to viruses in hamsters. *Fed. Proc.* 37:2078-2081. 1978.
52. Lause, D. and Streilein, J.W. Lymphoid cell interactions in allograft immunity: The failure of hamsters to generate suppressor cells upon specific immunization. *Transplantation* 26:80-83. 1978.
53. Nelles, M., Stein-Streilein, J., Hart, D., Proia, R. and Streilein, J.W. Characterization of a Syrian hamster plasma cell tumor. *Prog. Exp. Tumor. Res.* 24:414-423. 1979.
54. Streilein, J.W. and Kaplan, H.J. Immunologic privilege in the anterior chamber of the eye is mediated by an active process of immune suppression. *Immunology and Immunopathology of the Eye*. Ed. A. Silverstein and R. O'Connor, chapter 33, p. 174, Masson et Cie, Paris, 1979.
55. Streilein, J.W. and Klein, J. Neonatal tolerance to K and D region alloantigens of H-2 complex: I-J region requirements. *Transpl. Proc.* 11:732-735. 1979.
56. Phillips, J.T., Streilein, J.W. and Duncan, W.R. The biochemical characterization of Syrian hamster cell surface alloantigens: I. Analysis of allogeneic differences between recently wild and highly inbred hamsters. *Immunogenetics* 7:445-455. 1979.
57. Eidels, L., Proia, R.L., Streilein, J.W. and Hart, D.A. Cell surface immunoglobulin of hamster lymphoid cells. *Molecular Immunology* 16:541-546. 1979.
58. Nelles, M.J., Proia, R.L., Hart, D.A., Eidels, L. and Streilein, J.W. Unusual cell surface immunoglobulin on a plasma cell tumor. *Molecular Immunology* 16:535-540. 1979.
59. Streilein, J.W. and Duncan, W.R. Alloimmune reactions among recently wild Syrian hamsters and classical inbred strains include alloantibody production. *Immunogenetics* 9:563-574. 1979.
60. Phillips, J.T., Duncan, W.R., Klein, J. and Streilein, J.W. Immunochemical detection of hamster Class II MHC homologues by murine anti-Ia^k sera. *Immunogenetics* 9:477-486. 1979.
61. Streilein, J.W. Neonatal tolerance: Toward an immunogenetic definition of self. *Immunological Reviews* 46:125-146. 1979.
62. Forman, J. and Streilein, J.W. T cells recognize minor histocompatibility antigens on H-2 allogeneic cells. *J. Experimental Medicine* 150:1001-1007. 1979.
63. Streilein, J.W., Toews, G.B. and Bergstresser, P.R. Corneal allografts fail to express Ia antigens. *Nature* 282:326-327. 1979.
64. Bergstresser, P.R., Fletcher, C. and Streilein, J.W. Surface densities of Langerhans cells in relation to rodent epidermal sites with special immunologic properties. *J. Invest. Derm.* 74:77-80. 1980.
65. Bergstresser, P.R., Toews, G.B., Gilliam, J.N. and Streilein, J.W. Unusual numbers and distribution of Langerhans cells in skin with unique immunologic properties. *J. Invest. Derm.* 74:312-314. 1980.
66. Streilein, J.W., Toews, G.B., Gilliam, J.N., and Bergstresser, P.R. Tolerance or Hypersensitivity to DNFB: The role of Langerhans cell density within epidermis. *J. Invest. Derm.* 74:319-322. 1980.

SCIENTIFIC ARTICLES IN REFEREED JOURNALS (cont.)

67. Toews, G.B., Bergstresser, P.R. and Streilein, J.W. Epidermal Langerhans cell density determines whether contact sensitivity or unresponsiveness follows skin painting with DNFB. *J. Immunology* 124: 445-453. 1980.
68. Streilein, J.W., Sullivan, S., and Thompson, S. Contact hypersensitivity, humoral immunity and specific unresponsiveness can be induced in Syrian hamsters with simple haptens. *J. Immunology* 124: 577-585. 1980.
69. Streilein, J.W. and Klein, J. Neonatal tolerance induction across H-2 mutational disparity: Induction and specificity of tolerance. *Immunogenetics* 10: 113-123. 1980.
70. Streilein, J. Neonatal tolerance of H-2 alloantigens. I. I region modulation of tolerance potential of K and D antigens. *Proc. Royal Society London B* 207:461-474. 1980.
71. Streilein, J.W. Neonatal tolerance of H-2 alloantigens. II. I region dependence of tolerance expressed to K and D antigens. *Proc. Royal Society London B* 207:475-486. 1980.
72. Nelles, M.J. and Streilein, J.W. Immune response to acute virus infection in the Syrian hamsters. I. Studies on genetic restrictions of cell-mediated cytotoxicity. *Immunogenetics* 10:185-199. 1980.
73. Streilein, J.W., Toews, G.B., and Bergstresser, P.R. Langerhans cells: Functional aspects revealed by in vivo grafting studies. *J. Invest. Derm.* 75:17-21. 1980.
74. Bergstresser, P.R., Toews, G.B. and Streilein, J.W. Natural and perturbed distributions of Langerhans cells: Responses to ultraviolet light, heterotopic skin grafting, and dinitrofluorobenzene sensitization. *J. Invest. Derm.* 75:73-77. 1980.
75. Toews, G.B., Bergstresser, P.R. and Streilein, J.W. Langerhans cells: Sentinels of skin associated lymphoid tissue. *J. Invest. Derm.* 75:78-82. 1980.
76. Nelles, M.J. and Streilein, J.W. Hamster T cells participate in MHC alloimmune reactions but do not effect virus-induced cytotoxic activity. *Immunogenetics* 11:75-86. 1980.
77. Streilein, J.W., and Duncan, W.R. Immunogenetic relationships among genetically defined, inbred domestic Syrian hamster strains. *Transplantation* 30:358-361. 1980.
78. Streilein, J.W. and Gruchalla, R.S. Analysis of neonatally induced tolerance of H-2 alloantigens. I. Adoptive transfer indicates that tolerance of Class I and Class II antigens is maintained by distinct mechanisms. *Immunogenetics* 12:161-174. 1981.
79. Gruchalla, R.S. and Streilein, J.W. Transplantation tolerance: Clonal deletion, active suppression or both? *Transpl. Proc.* 13:574-577. 1981.
80. Streilein, J.W., Gruchalla, R.S., and Strome, P. Neonatal transplantation tolerance results from two types of suppression acting during induction and at the effector phase. *Transpl. Proc.* 13:578-581. 1981
81. Niederkorn, J., Streilein, J.W., and Shadduck, J.A. Deviant immune responses to allogeneic tumors injected intracamerally and subcutaneously in mice. *Investigative Ophthalmology and Visual Science* 20:355-363. 1980.

SCIENTIFIC ARTICLES IN REFEREED JOURNALS (cont.)

82. Streilein, J.W., Niederkorn, J.Y., and Shaddock, J.A. Systemic immune unresponsiveness induced in adult mice by anterior chamber presentation of minor histocompatibility antigens. *J. Exp. Med.* 152:1121-1125. 1980.
83. Nelles, M.J., Duncan, W.R., and Streilein, J.W. Immune response to acute virus infection in the Syrian hamster. II. Studies on the identity of virus-induced cytotoxic effector cells. *J. Immunol.* 126:214-218. 1981.
84. Phillips, J.T., Streilein, J.W. and Duncan, W.R. The biochemical characterization of Syrian hamster cell-surface alloantigens. II. Immunochemical relationships between cell-surface alloantigens and Class II MHC homologues. *Immunogenetics* 12:485-496. 1981.
85. Streilein, J.W. and Forman, J. Are allogeneic and associative recognition coincident T cell paradigms? *Transplantation* 31:183-194. 1981.
86. Streilein, J.W. and Bergstresser, P.R. Langerhans cell function dictates induction of contact hypersensitivity or unresponsiveness to DNFB in Syrian hamsters. *J. Investigative Dermatology* 77:272- 277. 1981.
87. Niederkorn, J.Y. and Streilein, J.W. Immunogenetic basis for immunologic privilege in the anterior chamber of the eye. *Immunogenetics* 13:227-236. 1981.
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