

CURRICULUM VITAE

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Chief, Rheumatology Clinic

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Place of Birth: Washington, D.C.
Citizenship: United States
Home Address: 4206 Caminito Cassis
San Diego, California 92122

Education:

Honors College, University of Michigan
BS (Biophysics) 1968 (Summa cum laude)
Medical Scientist Training program
(Combined M.D.-Ph.D. program in Molecular Biology)
Harvard Medical School (1968-74)
Cold Spring Harbor Research Lab of Harvard Medical School
(lab of JD Watson)
Massachusetts General Hospital, 1969, 1974
Albert Einstein College of Medicine, New York
Ph.D. Molecular Biology, 1972 (summa cum laude)
M.D. 1974 (summa cum laude)
Stanford University Medical Center, Stanford, California
1974 – 1976 Intern and Resident in Internal Medicine,
1976 – 1978 Fellowship in Immunology and Rheumatology,
1978-1979 Chief Resident in Internal Medicine, Stanford

Brief Chronology of Employment:

- 1979-1980 Instructor, Division of Rheumatology, Stanford University
- 1980 - 1987 Assistant Member in Immunology (Research), The Scripps Research Institute
- 1980-1999 Member, Department of Clinical Rheumatology, ScrippsHealth, La Jolla, California
- 1987 - 1999 Associate Member in Immunology (Research), The Scripps Research Institute
Skaggs Fellow in Translational Research
The Scripps Research Foundation
La Jolla, CA
- 1999-present. Member and Chief, Rheumatology Clinic, Scripps Ximed Association
Scripps Memorial Hospital and Research Foundation

Honors and Awards:

Undergraduate Awards at University of Michigan (Ann Arbor, MI)

Honors College Program in Unified Science (1964-68)

Graduated Summa cum Laude (Biophysics)-1968

Phi Beta Kappa (Undergraduate Honor Society) -Vice President 1967-68

Phi Kappa Phi (Scientific Honor Society) - Vice President and President 1967-68

William I. Branstrom Award for Outstanding Academic Achievement (1968)

Awards during Graduate School

Smith Kline Award for postdoctoral research, Cold Spring Harbor Laboratories of Harvard Medical School, 1968

Albert Einstein College of Medicine Medical Scientist Training Program (combined M.D.-Ph.D. Training Program) (1968-1974)

Ph.D. (Molecular Biology), 1972 summa cum laude

Alpha Omega Alpha (Medical Honor Society) - Vice President, 1972-74

Sloan-Kettering Award for Clinical Research Excellence, 1974

M.D. (Internal Medicine), 1974 summa cum laude

Postgraduate Awards

Postdoctoral Fellow of the Arthritis Foundation (1974-1978)

Member, American Board of Internal Medicine, 1980

Fellow, American College of Physicians, 1982

Fellow, American Society for Clinical Investigation, 1984

Fellow, American College of Rheumatology, 1984

President, San Diego Rheumatism Society, 1990-92

Outstanding Clinical Investigator Award, American Society of Clinical Investigation, 1997

Skaggs Award for Distinguished Clinical Research, The Scripps Research Institute, 1998

Broadhurst Distinguished Faculty Lecture Award, Harvard Medical School, 2001

Designated "Outstanding Clinical Rheumatologist, Southern California" 2002

Editor, Rheumatology Grand Rounds

Section Editor, Current Opinion in Investigational Drugs: Inflammation and Autoimmunity

Section Editor, Current Drugs: Guidelines for the FDA

Section Editor, Clinical Immunology

Associate Editor, Journal of Clinical Laboratory Analysis

Associate Editor, Arthritis and Rheumatism

Associate Editor, Journal of Rheumatology

Associate Editor (Rheumatology), MedScape

Editor, textbook on Sjögren's Syndrome (Springer) 2012

Advisory Board, American College of Rheumatology for "Guidelines for Sjögren's Syndrome"

Advisory Board, International Institute of Immunopathology, Cologne, Germany

Advisory Board, National Sjögren's Syndrome Foundation

Advisory Board, National Scleroderma Federation

Advisory Board, California Systemic Lupus Society

Advisory Board for Rheumatology, MedScape (internet information for physicians)

Advisory Board, Chinese Academy of Medicine (Beijing)

Advisory Board, Republic of China (Taiwan) Academy of Medicine

Advisory Board, Indian Academy of Rheumatology (New Delhi)
Advisory Board, WebMD and Medscape

Study Section for Research Grants, American College of Rheumatology
Study Section for Postdoctoral Fellowships, Arthritis Foundation
Study Section for Multipurpose Arthritis Center, National Institutes of Health
Study Section for General Medicine, National Institutes of Health
Associate Editor, Indian Journal of Rheumatology
Advisor to the Modernization of Medicine Committee, China

Principal Investigator for NIH Grant M01RR0833 (General Clinical Research Center, (GCRC) including projects:

- a) Open Label Phase II study for treatment of severe rheumatoid arthritis with azaribine plus pyridoxine (IND) (1993-present)
- b) Treatment of Patients with autoimmune disease and pathogenetic with 2-chlorodeoxyadenosine (IND) (1993-present)
- c) Evaluation of the genetic and environmental factors in the pathogenesis of Sjogren's syndrome (1984-present)
- d) Pathogenesis of Neutropenia in Sjögren's syndrome and systemic erythematosus using DNA recombinatorial phage libraries of monoclonal antibodies derived from patients (1994-present)
- e) Treatment of patients with severe rheumatoid arthritis with inhibitors de novo pyrimidine synthesis including tri-acetyl 6-azauridine
- f) Co-Director for Flow Cytometry, Development of monoclonal antibody (phage display) and PCR probes

Principal Investigator for multi-center trials involving rheumatoid arthritis, Sjögren's syndrome or systemic lupus erythematosus:

- a) Double-blind study of efficacy and safety of mycophenolic acid mofetil in rheumatoid arthritis (1989-1995); extension trial-present
- b) Multicenter open label trial to establish the efficacy and safety of in patients with Sjögren's syndrome (1989-1993)
- c) Multicenter Double blind study for the use of pilocarpine in patients with Sjogren's (1993-1994) (protocol 96-05 and 06)
- d) Multicenter Trial of Tinedap in early rheumatoid arthritis (1993-1996)
- e) Multicenter Trial of Leflunomide versus Methotrexate in Rheumatoid Arthritis (1995-present) (protocol 97-06)

- f) Multicenter Trial for treatment of rheumatoid arthritis with methotrexate plus cyclosporin A (Neoral) (1996)
- g) Multicenter Trial for Cox-2 Inhibitor in treatment of rheumatoid arthritis (1996-present) (co-investigator)
- h) Multicenter Trial for Muscarinic M1 and M3 agonist (SNI-077) in treatment of syndrome (1997-present)
- i) Multicenter Trial for TNFRII:Fc (Enbrel) in early rheumatoid arthritis (1997-present) 9032)
- j) Multicenter Trial for T-cell Receptor Vaccine in rheumatoid arthritis (Immune) (protocol 97-144)
- h) Prediction of response to methotrexate by detection of cytokine and inhibitor levels (protocol 98-009)

RECENT SPEAKING CONFERENCES

- 2012 Plenary speaker and visiting Professor of Medicine Chinese Academy of Rheumatology, China (Beijing)
- 2012 Plenary speaker, Indian Academy of Rheumatology (New Delhi)

PUBLICATIONS

1. Pinnell S, Fox RI, Krane S: Human collagen: its breakdown products in normal and diseased states. *Biochim Biophys Acta* 229:119, 1971.
2. Baum S, Fox R: Components of the adenovirus 7-SV40 hybrid virus. *Proc Natl Acad Sci USA* 68:1525, 1971.
3. Pinnell S, Fox RI, Krane S: A method for distinguishing the breakdown products of skin from bone collagen in man. *J Clin Invest* 49:75, 1970.
4. Fox RI, Baum S: Synthesis of viral RNA during restricted adenovirus infection. *J Virol* 10:221, 1972.
5. Fox RI: Interaction of adenovirus and simian virus 40. Univ of Michigan Microfilms, Ph.D. Thesis, 1972.
6. Davies P, Allison AC, Fox RI, Haswell D: The inhibition of phagocytosis and facilitation of exocytosis in rabbit polymorphonuclear leukocytes. *Lab Invest* 28:16, 1973.

7. Davies P, Fox RI, Allison AC, Haswell D: Exocytosis of polymorphonuclear leukocyte lysosomal enzymes induced by cytochalasin B. *J Biochem* 128:78, 1972.
8. Fisher M, Fox RI, Newman A: Computer diagnosis of the acutely ill patient with fever and a rash. *Int J Dermatol* 12:59, 1973.
9. Fox RI, Baum S: Restriction of adenovirus replication in monkey cells. *Virology* 60:45, 1974.
10. Baum S, Fox RI: Human adenovirus infection in monkey cells: An example of host restriction at a step late in replication. *Cold Spring Harbor Symp Quant Biol* 39:567, 1974.
11. Calin A, Fox RI, Gerber R: The prognosis in Reiter's syndrome. *Ann Rheum Dis* 21:548, 1978.
12. Fox RI, Weissman I: Moloney virus induced cell surface antigens and histocompatibility antigens are located on distinct molecules. *J Immunol* 122:1697, 1979.
13. Humphrey D, Tsukamoto-Adey A, Witte O, Fox RI, Jerabek L, Weissman I: A comparison of Moloney lymphoma cell surface and Moloney oncornavirus antigens. *J Immunol* 123:412, 1979.
14. Fox RI, Calin C, Gibson D, Gerber R: The chronicity of symptoms and disability in Reiter's syndrome. *Ann Intern Med* 91:190, 1979.
15. Fox RI, Weissman I: Absence of de-repressed H-2 alloantigens on a murine lymphoma. *J Immunol* 123:1736, 1979.
16. Levy R, Dilley J, Fox RI, Warnke R: A human thymus-leukemia antigen defined by hybridoma antibodies. *Proc Natl Acad Sci USA* 76:6552, 1979.
17. Tsoukas CD, Fox RI, Slovin SF, Carson DA, Pellegrino M, Fong S, Pasquali J-L, Ferrone S, Kung P, Vaughan JH: T lymphocyte-mediated cytotoxicity against autologous EBV-genome-bearing B cells. *J Immunol* 126:1742-1746, 1981.
18. Fong S, Tsoukas CD, Pasquali J-L, Fox RI, Rose JE, Raiklen D, Carson DA, Vaughan JH: Fractionation of human lymphocyte subpopulations on immunoglobulin coated petri dishes. *J Immunol Methods* 44:171-182, 1981.
19. Zipf T, Fox RI, Dilley J, Levy R: Definition of the high risk ALL patient by immunologic phenotyping with monoclonal antibodies. *Cancer Res* 41:4786-4789, 1981.
20. Engleman E, Warnke R, Fox RI, Dilley J, Benike CJ, Levy R: Studies on a human T lymphocyte antigen defined by monoclonal antibodies. *Proc Natl Acad Sci USA* 78:1791-1976, 1981.

21. Fox RI, Thompson L, Huddleston J: T-gamma cells express T lymphocyte associated antigens. *J Immunol* 126:2062-2065, 1981.
22. Fong S, Fox RI, Rose JE, Liu J, Tsoukas CD, Carson DA, Vaughan JH: Solid-phase selection of human T lymphocyte subpopulations using monoclonal antibodies. *J Immunol Methods* 46:153-163, 1981.
23. Fox RI, Fong S, Sabharwal N, Carstens SA, Kung PC, Vaughan JH: Synovial fluid lymphocytes differ from peripheral blood lymphocytes in patients with rheumatoid arthritis. *J Immunol* 128:351-354, 1982.
24. Fox RI, Baird S, Kung P, Levy R, Royston I: Cell surface antigens on normal and neoplastic human lymphocytes. In: *Human Cancer Markers*. Sell S, Wahren B (ed.) pp. 33-68. Humana Press, Clifton, New Jersey, 1982.
25. Tsoukas CD, Carson DA, Fong S, Slovin SF, Fox RI, Vaughan JH: Lysis of autologous Epstein-Barr virus infected B cells by cytotoxic T lymphocytes of rheumatoid arthritis patients. *Clin Immunol Immunopathol* 24:8-14, 1982.
26. Fox RI, Carstens SA, Fong S, Robinson CA, Howell F, Vaughan JH: Use of monoclonal antibodies to analyze peripheral blood and salivary gland lymphocyte subsets in Sjogren's Syndrome. *Arthritis Rheum* 25:419, 1982.
27. Fox RI, Harlow D, Royston I, Elder J: Structural characterization of the human T cell surface antigen (p67) isolated from normal and neoplastic lymphocytes. *J Immunol* 129:401-405, 1982.
28. Tsoukas CD, Fox RI, Carson DA, Fong S, Vaughan JH: Molecular interactions in human T-cell-mediated cytotoxicity to Epstein-Barr virus. I. Blocking of effector cell function by monoclonal antibody OKT3. *Cell Immunol* 69:113-121, 1982.
29. Fox RI, McMillan R, Spruce W, Tani P, Mason D: Analysis of T-lymphocytes after bone marrow transplantation using monoclonal antibodies. *Blood* 60:578, 1982.
30. Adamson T, Fox R, Frisman D, Howell F: Immunohistologic analysis of lymphoid infiltrates in primary Sjogren's syndrome using monoclonal antibodies. *J Immunol* 130:203-208, 1983.
31. Thompson LF, Saxon A, O'Connor RD, Fox RI: Ecto-5'-nucleotidase activity in human T cell subsets. Decreased numbers of ecto-5'-nucleotidase positive cells from both OKT4+ and OKT8+ cells in patients with hypogammaglobulinemia. *J Clin Invest* 71:892-899, 1983.
32. Fox RI, Hueniken M, Fong S, Behar S, Royston I, Singhal SK, Thompson L: A novel cell surface antigen (T305) found in increased frequency on acute leukemia cells and in autoimmune disease states. *J Immunol* 131:762-767, 1983.

33. Helin H, Fox RI, Edgington T: The instructor cell for the human procoagulant monocyte response to bacterial lipopolysaccharide is a Leu 3a positive T cell by fluorescence-activated cell sorting. *J Immunol* 131:749-752, 1983.
34. Fox RI, Adamson III TC, Fong S, Robinson CA, Morgan EL, Robb JA, Howell FV: Lymphocyte phenotype and function in pseudolymphoma associated with Sjogren's syndrome. *J Clin Invest* 72:52-62, 1983.
35. Fox RI, Adamson III TC: Human lymphocyte cell surface antigens defined by monoclonal antibodies. In: *Clinical Laboratory Assays*, Chapt. 15. Nakamura RM, Dito WR, Tucker ES (eds.): Masson Publishing, USA, pp. 265-295, 1983.
36. Fox RI, Adamson TC, Fong S, Young C, Howell FV: Characterization of the phenotype and function of lymphocytes infiltrating the salivary gland in patients with primary Sjogren syndrome. *Diagn Immunol* 1:233-239, 1983.
37. Vaughan JH, Carson DA, Fox RI: The Epstein-Barr virus and rheumatoid arthritis. *Clin Exp Rheumatol* 1:265-272, 1983.
38. Spruce WE, McMillan R, Miller W, Fox R, Carson DA, Schwartz DB, Hartman GA, Renshaw LW, Beutler E: Transplantation of T-lymphocyte-depleted bone marrow between HLA-mismatched individuals. *Transplantation* 36:369-372, 1983.
39. Young CL, Adamson III TC, Vaughan JH, Fox RI: Immunohistologic characterization of synovial membrane lymphocytes in rheumatoid arthritis. *Arthritis Rheum* 27:32-39, 1984.
40. Thompson LF, Fox RI: Decreased T cell ecto-5'-nucleotidase activity in agammaglobulinemia patients is not due to altered proportions of helper and suppressor T cells as defined by the monoclonal antibodies OKT4 and OKT8. In: *Purine Metabolism in Man-IV, Part B*. DeBruyn CHMM, Simmonds HA, Muller MM (eds.) pp. 153-158. Plenum Publishing Corp., New York, 1984.
41. Fox RI, Young CL, Adamson III TC, Frisman DM: Characterization of lymphocytes in tissue lesions from patients with rheumatoid arthritis and Sjogren's Syndrome using monoclonal antibody SC1. In: *Human Leukocyte Markers Detected by Monoclonal Antibodies*. Boumsell L, Bernard A (eds.) pp. 552-557. Springer-Verlag, Berlin 1984.
42. Dillman RD, Shawler DL, Frisman DM, Fox RI, Royston I: Characterization of a monoclonal antibody that reacts with activated/proliferating cells, and subsets of leukemia cells. *J Biol Response Mod* 3:26-38, 1984.
43. Fox RI, Chan R, Michelson JB, Belmont JB, Michelson PE: Beneficial effect of artificial tears made with autologous serum in patients with Keratoconjunctivitis Sicca. *Arthritis Rheum* 27:459-461, 1984.

44. Fox RI, Fong S, Tsoukas CD, Vaughan JH: Characterization of recirculating lymphocytes in rheumatoid arthritis patients: Selective deficiency of natural killer cells in thoracic duct lymph. *J Immunol* 132:2883-2887, 1984.
45. Federici AB, Fox RI, Espinosa LR, Zimmerman TS: Elevation of von Willebrand factor is independent of erythrocyte sedimentation rate and persists after glucocorticoid treatment. *Arthritis Rheum* 27:1046-1049, 1984.
46. Epstein AL, Marder RJ, Winter JN, Fox RI: Two new monoclonal antibodies (LN-1, LN-2) reactive in B5 formalin-fixed, paraffin-embedded tissues with follicular center and mantle zone human B lymphocytes and derived tumors. *J Immunol* 133:1028-1036, 1984.
47. Fox RI, Howell FV, Bone RC, Michelson PE: Primary Sjogren's syndrome: Clinical and immunopathologic features. *Semin Arthritis Rheum* 14:77-105, 1984.
48. Vaughan JH, Fox RI, Abresch RJ, Tsoukas CD, Curd JG, Carson DA: Thoracic duct drainage in rheumatoid arthritis. *Clin Exp Immunol* 58:645-653, 1984.
49. Sportsman JR, Park MM, Cheresh DA, Fukuda MM, Elder JH, Fox RI: Characterization of a membrane surface glycoprotein associated with T-cell activation. *J Immunol* 135:158-164, 1985.
50. Fox RI, Hugli TE, Lanier LL, Morgan EL, Howell F: Salivary gland lymphocytes in primary Sjogren's syndrome lack lymphocyte subsets defined by Leu 7 and Leu 11 antigens. *J Immunol* 135:207-214, 1985.
51. Carson DA, Fox RI: Structure and function of synoviocytes. In: *Arthritis and Allied Conditions*. McCarty DJ (eds.): pp. 257-269. Lea and Febiger, Philadelphia, 1985.
52. Fong S, Chen PP, Gilbertson TA, Fox RI, Vaughan JH, Carson DA: Structural similarities in the kappa light chains of human rheumatoid factor paraproteins and serum immunoglobulins bearing a cross-reactive idiotype. *J Immunol* 135:1955-1960, 1985.
53. Fox RI, Michelson PE, Howell FV: Ocular and oral problems in arthritis. How to recognize, when to refer. *Postgrad Med* 78:87-97, 1985.
54. Isakov N, Fox RI, Dixon F, Theofilopoulos A, Altman A: Staining and fluorescence-activated cell sorter analysis of human lymphocytes using antibodies to a short, chemically synthesized human IL-2 peptide. *Cell Immunol* 94:491-499, 1985.
55. Bone RC, Fox RI, Howell FV, Fantozzi R: Sjogren's Syndrome: New immunologic assessments for a persistent clinical problem. *Laryngoscope* 95:295-299, 1985.

56. Fantozzi R, Bone R, Fox RI: Extraglandular Warthin's tumors. *Laryngoscope* 95:682-688, 1985.
57. Fox RI, Theofilopoulos AN, Altman A: Production of interleukin 2 (IL 2) by salivary gland lymphocytes in Sjogren's syndrome. Detection of reactive cells by using antibody directed to synthetic peptides of IL 2. *J Immunol* 135:3109-3115, 1985.
58. Fox RI, Lotz M, Rhodes GH, Vaughan JH: Epstein-Barr virus in rheumatoid arthritis. In: *Immunologic Aspects of Rheumatic Disease*, Vol. 11. Williams R, Dickens D. (eds.) pp. 665-688. W.B. Saunders, England 1985.
59. Esparza I, Fox RI, Schreiber RD: Interferon-gamma dependent modulation of C3b receptors (CRI) on human peripheral blood monocytes. *J Immunol* 136:1360-1365, 1986.
60. Fox RI, Chen PP, Carson DA, Fong S: Expression of a cross reactive idiotype on rheumatoid factor in patients with Sjogren's syndrome. *J Immunol* 136:477-483, 1986.
61. Fox RI, Sportsman R, Rhodes GH, Luka J, Pearson G, Vaughan JH: Rheumatoid arthritis synovial membrane contains a 62,000-molecular-weight protein that shares an antigenic epitope with the Epstein-Barr virus encoded EBNA-1 antigen. *J Clin Invest* 77:1539-1547, 1986.
62. Fox RI, Robinson C, Curd J, Kozin F, Howell FV: Sjogren's syndrome: Proposed criteria for classification. *Arthritis Rheum* 29:577-585, 1986.
63. Fong S, Chen PP, Gilbertson TA, Weber JR, Fox RI, Carson DA: Expression of three cross-reactive idiotypes on rheumatoid factor autoantibodies from patients with autoimmune diseases and seropositive adults. *J Immunol* 137:122-128, 1986.
64. Fox RI, Chilton T, Rhodes G, Vaughan JH: Lack of reactivity of rheumatoid arthritis synovial membrane with cloned EBV DNA probes. *J Immunol* 137:498-501, 1986.
65. Jalkanen S, Steere AC, Fox RI, Butcher EC: A distinct endothelial cell recognition system controlling lymphocyte traffic into inflamed synovium. *Science* 233:556-558, 1986.
66. Fox RI, Bumol T, Fantozzi R, Bone R, Schreiber R: Expression of histocompatibility antigen HLA-DR by salivary gland epithelial cells in Sjogren's syndrome. *Arthritis Rheum* 29:1105-1111, 1986.
67. Fox RI, Pearson G, Vaughan JH: Detection of Epstein-Barr virus associated antigens and DNA in salivary gland biopsies from patients with Sjogren's syndrome. *J Immunol* 137:3162-3168, 1986.
68. Fox RI, Carson DA, Chen P, Fong S: Characterization of a cross reactive idiotype in Sjogren's syndrome. *Scand J Rheumatol* 61:83-88, 1986.

69. Fox RI, Howell FV: Oral problems in patients with Sjogren's syndrome. *Scand J Rheumatol* 61:194-200, 1986.
70. Fox RI, Robinson C, Curd J, Michelson P, Bone R, Howell FV: First international symposium on Sjogren's syndrome: Suggested criteria for classification. *Scand J Rheumatol* 62:28-30, 1986.
71. Fong S, Chen PP, Fox RI, Goldfien RD, Silverman GJ, Radoux V, Jirik F, Vaughan JH, Carson DA: Rheumatoid factors in human autoimmune disease: Their origin, development and function. *Path Immunopath Res* 5:305-316, 1986.
72. Fox RI, Carson DA: Monoclonal antibodies and construction of antibody to specific determinants. In: *Rheumatology & Immunology*, 2nd Edition, Bennett JC, Cohen AS (eds.) pp. 438-443, Grune & Stratton, New York, 1986.
73. Carson DA, Chen PP, Fox RI, Kipps TJ, Jirik F, Goldfien RD, Silverman G, Radoux V, Fong S: Rheumatoid factors and immune networks. *Ann Rev Immunol* 5:109-126, 1987.
74. Freimark B, Lanier L, Phillips J, Quertermous T, Fox RI: Comparison of Tcell receptor gene rearrangements in patients with large granular Tcell leukemia and Felty's syndrome. *J Immunol* 138:1724-1729, 1987.
75. Fox RI: Immunoregulation in Sjogren's syndrome. *Eur J Immunol Immunopharmacol* 7:60-68, 1987.
76. Fox RI, Scott S, Houghton R, Whalley A, Geltofsky J, Vaughan JH, Smith R: A synthetic peptide derived from the Epstein-Barr virus encoded early diffuse antigen (EA-D) reactive with human antibodies. *J Clin Lab Anal* 1:140-145, 1987.
77. Carson DA, Chen PP, Kipps TJ, Radoux V, Jirik F, Goldfien RD, Fox RI, Silverman GJ, Fong S: Molecular basis for the cross-reactive idiotypes on human anti-IgG autoantibodies (rheumatoid factors) In: *Autoimmunity and Autoimmune Disease*. Ciba Foundation Symposium 129, John Wiley & Sons, New York, pp. 123-134, 1987.
78. Fox RI, Chilton T, Scott S, Benton L, Howell FV, Vaughan JH: Potential role of Epstein-Barr virus in Sjogren's syndrome. *Rheumatic Disease Clinics of North America* 13:275-292, 1987.
79. Fong S, Chen P, Carson DA, Fox RI: 1. Rheumatoid factor in Sjogren's syndrome. In: *Sjogren's Syndrome: Clinical and Immunological Aspects*. Talal N, Moutsopoulos HM, Kassan SS (Eds.) Springer-Verlag, New York, pp. 203-217, 1987.
80. Freimark B, Fox RI: Immunoglobulin-gene rearrangement in benign lymphoepithelial lesions. *N Eng J Med* 317:1158, 1987.

81. Carson DA, Chen PP, Kipps TJ, Radoux V, Jirik FR, Goldfien RD, Fox RI, Silverman GJ, Fong S: Idiotypic and genetic studies of human rheumatoid factors. *Arthritis Rheum* 30:1321-1325, 1987.
82. Fox RI, Howell FV: Reactivation of Epstein-Barr virus in Sjogren's syndrome. *La Ricerca Clin Lab* 17:273-277, 1987.
83. Fox RI, Robinson C, Curd J, Howell F: Current comment on "Diagnosis of Sjogren's syndrome". *Arthritis Rheum* 30:955-956, 1987.
84. Josephs SF, Buchbinder A, Streicher HZ, Ablashi DV, Salahuddin SZ, Guo H-G, Wong-Staal F, Cossman J, Raffeld M, Sundeen J, Levine P, Biggar R, Krueger GRF, Fox RI, Gallo RC: Detection of human B-lymphotropic virus (human herpesvirus 6) sequences in B-cell lymphoma tissues of three patients. *Leukemia* 2:132-135, 1988.
85. Fong S, Chen PP, Fox RI, Goldfien RD, Radoux V, Silverman GJ, Crowley JJ, Roudier J, Carson DA: The diversity and idiotypic pattern of human rheumatoid factors in disease. In: *Concepts in Immunopathology* 5:168-191. Cruse JM, Lewis Jr RE (Eds.) , S. Karger, Basel, , 1988.
86. Fox RI, Fong S, Chen PP, Kipps TJ: Autoantibody production in Sjogren's syndrome: A hypothesis regarding defects in somatic diversification of germ line encoded genes. *In Vivo* 2:47-56, 1988.
87. Fox RI: Epstein-Barr virus and human autoimmune diseases: possibilities and pitfalls. *J Virol Methods* 241:1218-1221, 1988.
88. Fox RI, Lotz M, Carson DA: Structure and function of synoviocytes. In: *Arthritis and Allied Conditions*, 11th Ed., D.J. McCarty (Ed.), Lea & Febiger, Philadelphia, pg. 273-288, 1988
89. Fox RI, Chan E, Benton L, Fong S, Friedlaender M, Howell FV: Treatment of primary Sjogren's syndrome with hydroxychloroquine. *Amer J Med* 85:62-67, 1988.
90. Piller F, Piller V, Fox RI, Fukuda M: Human T-lymphocyte activation is associated with dramatic changes in O-glycan biosynthesis. *J Bio Chem* 263:15146-15150, 1988.
91. Saito I, Fox RI, Walker LE, Fernsten PD, Howell FV: Monoclonal antibodies potentially useful for diagnosis of squamous cell oral carcinoma. *J Clin Lab Analysis* 2:235-240, 1988.
92. Fox RI, Carson DA, Fei HM, Saito I: The potential role of infectious agents in chronic autoimmune diseases. In: *Recent Advances in Autoimmunity and Tumor Immunology*. F. Dammacco (Ed.), Edi-Ermes, Milan, pg. 3-14, 1988.

93. Fox RI, Saito I: Clinical syndromes associated with Epstein-Barr virus. In: Epstein-Barr Virus and Human Disease II, Levine PH, Ablashi DV, Nonoyama M, Pearson GR, Glaser R (Eds.), Humana Press, Clifton, NJ, pg 212-222, 1988
94. Freimark B, Pickering L, Concannon, P., Fox R: Nucleotide sequence of a uniquely expressed human T cell receptor b chain variable region gene (Vb) in Sjogren's syndrome. *Nucleic Acids Res* 17:455, 1989.
95. Kipps TJ, Tomhave E, Chen PP, Fox RI: Molecular characterization of a major autoantibody-associated cross-reactive idiotype in Sjogren's syndrome. *J Immunol* 142:4261-4268, 1989.
96. Saito I, Serenius B, Compton T, Fox RI: Detection of Epstein-Barr virus DNA by polymerase chain reaction in blood and tissue biopsies from patients with Sjogren's syndrome. *J Exp Med* 169:2191-2198, 1989.
97. Fox RI, Robinson CA, Williams GW, Curd JG, Colwell CW, Bumol TF: Future approaches to the diagnosis and therapy of rheumatoid arthritis. In: Immunomodulators in the Rheumatic Diseases. Weinblatt M, Furst DE (Eds.) Marcel Dekker, Inc. 223-256, 1989
98. Fox RI, Saito I, Chan EK, Josephs S, Salahuddin SZ, Ablashi DV, Hu P-P, Chen S-L: Viral genomes in lymphomas of patients with Sjogren's syndrome. *J Autoimmunity*, 2:449-455, 1989.
99. Mosier DE, Gulizia RJ, Baird SM, Spector S, Spector D, Kipps TJ, Fox RI, Carson DA, Cooper N, Richman DD, Wilson DB: Studies of HIV infection and the development of Epstein-Barr virus-related B cell lymphomas following transfer of human lymphocytes to mice with severe combined immunodeficiency. In: Proceedings of EMBO Symposium, 1989.
100. Freimark B, Fantozzi R, Bone R, Bordin G, Fox R: Detection of clonally expanded salivary gland lymphocytes in Sjogren's syndrome. *Arthritis Rheum*, 32:859-869, 1989.
101. Chan EKL, Sullivan KF, Fox RI and Tan EM: Sjogren's syndrome nuclear antigen B (La): cDNA cloning, structural domains, and autoepitopes. *J Autoimmunity*, 2:321-327, 1989.
102. Fox R, Dotan I, Compton T, Fei H, Hamer M, Saito I: Use of DNA amplification methods for clinical diagnosis in autoimmune disease. *J Clin Lab Analysis*, 3:378-387, 1989.
103. Saito I, Serenius B, Compton T, Fox RI: Detection of Epstein-Barr virus DNA by polymerase chain reaction in blood and tissue biopsies from patients with Sjogren's syndrome. *J. Exp. Med.* 169:2191-2198, 1989.

104. Mosier DE, Gulizia RJ, Wilson DB, Baird SM, Spector SA, Spector DH, Richman DD, Fox RI and Kipps TJ: Elements of the human immune system: Studies of mature lymphoid cells following xenotransplantation of SCID mice. In: Current Topics in Microbiology and Immunology (ed. M.J. Bosma), 152:150-155, 1989.
105. Cannon MJ, Pisa P, Fox RI, Cooper NR: Epstein-Barr virus induces aggressive lymphoproliferative disorders of human B cell origin in SCID/hu chimeric mice. J Clin Invest. 85:1333-1337, 1990.
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