

CURRICULUM VITAE

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EDUCATION

1967 B.A. Magna cum laude, Harvard University
1971 M.D., Columbia University, College of Physicians and Surgeons

MEDICAL TRAINING

1971-72 Intern in Medicine, Moffitt Hospital, University of California, San Francisco
1972-73 Resident in Medicine, University of California Hospitals, San Francisco
1973-76 Research Associate, Laboratory of Biochemistry (E.R. Stadtman, Chief), Heart and Lung Institute, National Institutes of Health, Bethesda, Maryland
1976-78 Postdoctoral Fellow in Immunogenetics and Rheumatology (H.O. McDevitt, Chief), Stanford University School of Medicine

MEDICAL AND ACADEMIC APPOINTMENTS

1978-84 Assistant Professor of Pathology and Medicine, Stanford University School of Medicine
1978-2003 Attending Physician in Immunology and Rheumatology, Stanford University Hospital and Outpatient Clinics
1978-2003 Associate Director, Transfusion Service, Stanford University Hospital
1978-95 Medical Director, Transfusion Service, Veterans Administration Medical Center, Palo Alto
1978- Founder and Medical Director, Stanford Blood Center, Stanford University School of Medicine
1984-90 Associate Professor of Pathology and Medicine, Stanford University School of Medicine
1990- Professor of Pathology and Medicine (with tenure), Stanford University School of Medicine
2010- Co-Director, Immunology and Immunotherapy Program, Stanford Cancer Institute
2010- Member, Stanford Institute for Immunology and Infectious Diseases
2017- Member, Stanford Diabetes Research Center
2010- Member, Stanford Bio-X
2016- Member, Wu Tsai Neurosciences Institute

TEACHING RESPONSIBILITIES

- 2004-2021 Course Director, Tumor Immunology and Immunotherapy (CBIO 275/IMMUNOL 275)
2014- Lecturer, Cellular and Clinical Aspects of Cancer (CBIO 242)
2015- Lecturer, Immunology in Health and Disease (IMMUNOL 205)
2015- Lecturer, Translational Immunology (IMMUNOL 209)

HONORS

- 1967 Rhodes Scholar Finalist
1976-78 Recipient, Senior Fellowship of the American Cancer Society
1982 Membership, American Society for Clinical Investigation
1984 Membership, Pluto Club (Association of University Pathologists)
1988 Benjamin Franklin Literary and Medical Society Award (for AIDS research)
1990- NIH Merit Grant
1998 Membership, Association of American Physicians
2004 Stanford University Outstanding Inventor
2017 Recipient, CABS prize for achievement in Life Sciences
2022 Recipient, Columbia University VP&S Gold Medal for Outstanding Achievement in Medical Research
2026 Recipient, Association for the Advancement of Blood & Biotherapies Landsteiner-Alter Prize for Biomedical Research

LICENSES AND CERTIFICATIONS

- 1972- Diplomate, National Board of Medical Examiners
1974- Diplomate, American Board of Internal Medicine

JOURNAL EDITORSHIPS

- 1980-87 Member of Editorial Board, *Hybridoma*, Mary Ann Liebert, Inc., Publishers, New York, NY
1982-86 Associate Editor, *The Journal of Immunology*, American Association of Immunologists, Publishers, Baltimore, MD.
1983-87 & 1993-96 Member of Editorial Board, *Journal of Clinical Immunology*, Plenum Press, Publishers, New York, NY
1986-90 Section Editor for Clinical/Cellular Immunology, *The Journal of Immunology*.
1988-98 Member of Editorial Board, *Clinical Immunology and Immunopathology*, Harcourt Brace Jovanovich, Publishers, New York, NY.
1988-98 Member of Editorial Board, *Biotechnology Therapeutics*, Marcel Dekker, Publishers.
1990-2006 Section Editor for Immunovirology, *AIDS Research and Human Retroviruses*.
2014-present Member of Editorial Board, *Cancer Immunology Research*

COMMITTEES AND OTHER ACTIVITIES

- 1981-86 Member, Council of the Midwinter Conference of Immunologists

1982-85	Member, Merit Review Board in Immunology of the Veterans Administration
1984-85	Chairman, Merit Review Board in Immunology of the Veterans Administration
1988-92	Member, Immunobiology Study Section, NIH
1994-2003	Member, Immunovirology Study Section for Small Business Innovative Research
1996-98	Councilor, Clinical Immunology Society
2017-2021	Ad hoc Member, Cancer Immunopathology and Immunotherapy Study Section, NIH

BIBLIOGRAPHY

Books and Monographs

1. Genetic Control of Human Immune Response. (**Special issue of the Journal of Experimental Medicine**) Vol. 152(2). Edited by **E.G. Engleman**, the Rockefeller University Press, New York, N.Y., 1980.
2. **Human Hybridomas and Monoclonal Antibodies**. Edited by **E.G. Engleman**, S.K.H. Fong, J.A. Larrick, A. Raubitschek. Plenum Press, New York, N.Y., 1985.

Journal Articles

1. **Engleman, E.G.**, and Greenbaum, L.M. Kinin-forming activity of human lymphocytes. **Biochem. Pharmacol.** 20:922-924, 1971.
2. Robinson, A.G., Zimmerman, E., **Engleman, E.G.**, and Frantz, A.G. Radioimmunoassay of bovine neurophysin: specificity of neurophysin I and neurophysin II. **Metabolism** 20:1138-1146, 1971.
3. Davis, R.F. and **Engleman, E.G.** Incidence of myocardial infarction in patients with rheumatoid arthritis. **Arth. Rheum.** 17:527-533, 1974.
4. Basch, C.M., Spittler, L.E., **Engleman, E.G.**, and Engleman, E.P. Cellular immune reactivity in patients with rheumatoid arthritis and effects of levamisole. **J. Rheum.** 4:377-388, 1977.
5. **Engleman, E.G.** and Engleman, E.P. Ankylosing spondylitis. Recent advances in diagnosis and treatment. **Med. Clin. North America** 61:347-364, 1977.
6. McDevitt, H.O. and **Engleman, E.G.** Association between genes in the major histocompatibility complex and disease susceptibility. **Arth. Rheum.** 20:S9-S20, 1977.
7. Payne, R., Grumet, F.C., Perkins, H., Cann, H., Colombe, B., **Engleman, E.G.**, Feldman, M., and Cochrum, K. Segregation of genes for B lymphocyte antigens with other chromosome 6 markers in man. **Histocompatibility Testing for 1977**, Munksgaard, Copenhagen, Eds. W.F. Bodmer, J.R. Batchelor et al., pp. 549-557, 1978.
8. **Engleman, E.G.** HLA-D restricted suppressor T cells of the mixed lymphocyte reaction: potential clinical applications. In: **Genetic Control of Autoimmune Disease**. Eds. N.R. Rose,

- P. Bigazzi, and N.W. Warner. Elsevier-North Holland, New York, NY Vol. 1 pp. 125-142, 1978.
9. Francis, S.H. and **Engleman, E.G.** Cascade control of E. coli glutamine synthetase I. Studies on the uridylyl transferase and uridylyl removing enzyme(s) from E. coli. **Arch. Biochem. Biophys.** 191:590-601, 1978.
 10. **Engleman, E.G.** and Francis, S.H. Cascade control of E. coli glutamine synthetase. II. Metabolite regulation of the enzymes in the cascade. **Arch. Biochem. Biophys.** 191:602-612, 1978.
 11. **Engleman, E.G.**, McMichael, A.J., Batey, M.E., and McDevitt, H.O. A suppressor T cell of the mixed lymphocyte reaction in man specific for the stimulating alloantigen. Evidence that identity at HLA-D between suppressor and responder is required for suppression. **J. Exp. Med.** 147:137-146, 1978.
 12. **Engleman, E.G.** and McDevitt, H.O. A suppressor T cell of the mixed lymphocyte reaction specific for the HLA-D region in man. **J. Clin. Invest.** 61:828-838, 1978.
 13. **Engleman, E.G.**, McMichael, A.J., and McDevitt, H.O. Suppression of the mixed lymphocyte reaction in man by a soluble T-cell factor. **J. Exp. Med.** 147:1037-1043, 1978.
 14. **Engleman, E.G.**, Sponzilli, E.E., Batey, M.E., Ramcharan, S., and McDevitt, H.O. Mixed lymphocyte reaction in healthy women with rheumatoid factor. Lack of association with HLA-Dw4. **Arth. Rheum.** 21:690-693, 1978.
 15. **Engleman, E.G.** A simple method for detecting suppressor cells of the mixed lymphocyte reaction in man: application to a healthy population. **Transpl. Proc.** 10:901-903, 1978.
 16. Young, E. and **Engleman, E.G.** Human peripheral blood lymphocyte responses to the synthetic antigens (T,G),-A-L and GAT. **Transpl. Proc.** 11:1860-1863, 1979.
 17. **Engleman, E.G.**, Benike, C., Hoppe, R.T., and Kaplan, H.S. Suppressor cells of the mixed lymphocyte reaction in patients with Hodgkin's disease. **Transpl. Proc.** 11:1827-1829, 1979.
 18. Goldsby, R.A., Osborne, B.A., and **Engleman, E.G.** Identification, isolation, and characterization of a human T cell population by a monoclonal antibody. **Current Microbiology** 3:141-146, 1979.
 19. Morhenn, V., **Engleman, E.**, and Farber, E.M. Significance of HLA antigens and the mixed lymphocyte reaction in psoriasis. **Acta Dermatovener** 87:12-14, 1979.
 20. **Engleman, E.G.**, Benike, C., Osborne, B., and Goldsby, R. Functional characteristics of human T-cell subpopulations distinguished by a monoclonal antibody. **Proc. Natl. Acad. Sci. USA** 77:1607-1611, 1980.

21. Young, E. and **Engleman, E.G.** In vitro responses of human lymphocytes to synthetic polypeptide antigens. **J. Immunol.** 125:352-358, 1980.
22. **Engleman, E.G.**, Benike, C.J., Hoppe, R.T., Kaplan, H.S., and Berberich, F.R. Autologous mixed lymphocyte reaction in patients with Hodgkin's disease. Evidence for a T cell defect. **J. Clin. Invest.** 66:149-158, 1980.
23. **Engleman, E.G.**, Charron, D.J., Benike, C.J., and Stewart, G.J. Ia antigen on peripheral blood mononuclear leukocytes in man. I. Expression, biosynthesis, and function of HLA-DR antigen on non-T cells. **J. Exp. Med.** 152:99s-113s, 1980.
24. **Engleman, E.G.**, Benike, C.J., and Charron, D.J. Ia antigen on peripheral blood mononuclear leukocytes in man. II. Functional studies of HLA-DR-positive T cells activated in mixed lymphocyte reactions. **J. Exp. Med.** 152:114s-126s, 1980.
25. Charron, D.J., **Engleman, E.G.**, Benike, C.J., and McDevitt, H.O. Ia antigens on alloreactive T cells in man detected by monoclonal antibodies. Evidence for synthesis of HLA-D/DR molecules of the responder type. **J. Exp. Med.** 152:127s-136s, 1980.
26. Morhenn, V.B., Benike, C.J., and **Engleman, E.G.** Inhibition of cell mediated immune responses by 8-methoxypsoralen and long-wave ultraviolet light: A possible explanation for the clinical effects of photoactivated psoralen. **J. Invest. Dermat.** 75:249-252, 1980.
27. Goldsby, R.A., Osborne, B.A., and **Engleman, E.G.** Characterization of a human T cell population identified and isolated by a monoclonal antibody. In: **Monoclonal Antibodies.** Eds. R. Kennett and T.J. McKearn, Plenum Press, pp. 121-135, 1980.
28. **Engleman, E.G.**, Warnke, R., Fox, R.I., Dilley, J., Benike, C.J., and Levy, R. Studies of a human T lymphocyte antigen recognized by a monoclonal antibody. **Proc. Natl. Acad. Sci. USA** 78:1791-1795, 1981.
29. **Engleman, E.G.**, Benike, C.J., Glickman, E., and Evans, R.L. Antibodies to membrane structures that distinguish suppressor/cytotoxic and helper T lymphocyte subpopulations block the mixed leukocyte reaction in man. **J. Exp. Med.** 154:193-198, 1981.
30. Kotzin, B.L., Benike, C.J., and **Engleman, E.G.** Induction of immunoglobulin-secreting cells in the allogeneic mixed leukocyte reaction: Regulation by helper and suppressor lymphocyte subsets in man. **J. Immunol.** 127:931-935, 1981.
31. **Engleman, E.G.**, Sonnenfeld, G., Dauphinee, M., Greenspan, J.S., Talal, N., McDevitt, H.O., and Merigan, T.C. Treatment of NZB/NZW F₁ hybrid mice with Mycobacterium bovis strain BCG or type II interferon preparations accelerates autoimmune disease. **Arth. Rheum.** 24:1396-1402, 1981.
32. Grumet, F.C., Fendly, B.M., and **Engleman, E.G.** Monoclonal anti-HLA-B27 antibody (B27M¹): Production and lack of detectable typing difference between patients with ankylosing spondylitis, Reiter's syndrome, and normal controls. **The Lancet** 2:174-176, 1981.

33. **Engleman, E.G.**, Benike, C.J., Grumet, F.C., and Evans, R.L. Activation of human T lymphocyte subsets: Helper and suppressor/cytotoxic T cells recognize and respond to distinct histocompatibility antigens. **J. Immunol.** 127:2124-2129, 1981.
34. Gatenby, P.A., Kotzin, B.L., and **Engleman, E.G.** Induction of immunoglobulin secreting cells in the human autologous mixed leukocyte reaction: Regulation by helper and suppressor lymphocyte subsets defined with monoclonal antibodies. **J. Immunol.** 127:2130-2135, 1981.
35. Kotzin, B.L., Strober, S., **Engleman, E.G.**, Calin, A., Hoppe, R.T., Kansas, G.S., Terrell, C.P., and Kaplan, H.S. Treatment of intractable rheumatoid arthritis with total lymphoid irradiation. **N. Eng. J. Med.** 305:969-976, 1981.
36. **Engleman, E.G.** HLA-D restricted suppressor T cells of the mixed lymphocyte reaction in healthy and diseased populations. In: **Suppressor Cells in Human Disease States.** Ed. J.S. Goodwin, Marcel Dekker, Inc., pp. 137-161, 1981.
37. Morhenn, V.B., Benike, C.J., Cox, A.J., Charron, D.J., and **Engleman, E.G.** Cultured human epidermal cells do not synthesize HLA-DR. **J. Invest. Dermat.** 78:32-37, 1982.
38. Morhenn, V.B., Charron, D.J., and **Engleman, E.G.** Human skin cells synthesize HLA-DR molecules of the same charge and molecular weight as those synthesized by autologous lymphocytes. **J. Invest. Dermat.** 78:125-127, 1982.
39. Morhenn, V.B., Starr, E.D., Terrell, C., Cox, A.J., and **Engleman, E.G.** Separation of human skin cells by velocity sedimentation into functionally distinct fractions. **J. Invest. Dermat.** 78:319-322, 1982.
40. Gatenby, P.A., Kotzin, B.L., Kansas, G.S., and **Engleman, E.G.** Immunoglobulin secretion in the human autologous mixed leukocyte reaction. Definition of a suppressor-amplifier circuit using monoclonal antibodies. **J. Exp. Med.** 156:55-67, 1982.
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42. Morhenn, V.B., Benike, C.J., Charron, D.J., Cox, A., Mahrle, G., Wood, G.S., and **Engleman, E.G.** Use of the fluorescence-activated cell sorter to quantitate and enrich for subpopulations of human skin cells. **J. Invest. Dermat.** 79:277-282, 1982.
43. Yang, Y.H.J., Grumet, F.C., Fendly, B., **Engleman, E.**, and Shively, J.E. Protein A binding assay for the identification of HLA antigens on peripheral blood lymphocytes by monoclonal antibodies: Application to HLA B27. **Hybridoma** 1:243-255, 1982.
44. Gatenby, P.A., Kansas, G.S., Xian, C.Y., Evans, R.L., and **Engleman, E.G.** Dissection of immunoregulatory subpopulations of T lymphocytes within the helper and suppressor sublineages in man. **J. Immunol.** 129:1997-2000, 1982.

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46. **Engleman, E.G.** and Morhenn, V.B. Monoclonal antibodies: Probes to explore cell surface antigens. In: **Psoriasis, Proceedings of the Third International Symposium.** Eds. E.M. Farber and A.J. Cox. Grune & Stratton, Inc., pp. 97-108, 1982.
47. Morhenn, V.B., Orenberg, E.K., Kaplan, J., Pfenndt, E., Terrell, C., and **Engleman, E.G.** Immunologic effects of antipsoriatic agents: Inhibition of the skin cell-lymphocyte reaction. In: **Psoriasis, Proceedings of the Third International Symposium.** Eds. E.M. Farber and A.J. Cox, L. Nall, and P.H. Jacobs. Grune & Stratton, Inc., pp. 299-302, 1982.
48. **Engleman, E.G.** Studies of autologous and allogeneic mixed leukocyte reactions in patients with Hodgkin's disease. In: **Malignant Lymphomas: Etiology, Immunology, Pathology, Treatment.** Eds. H.S. Kaplan and S.A. Rosenberg. Academic Press, Inc., pp. 295-307, 1982.
49. Rosenbaum, J.T. and **Engleman, E.G.** Histocompatibility antigens and disease susceptibility. In: **The Pathophysiology of Human Immunologic Disorders.** Ed. J. Twomey. Urban & Schwarzenberg, Baltimore, MD, pp. 51-62, 1982.
50. Hays, E.F., Jones, P., Fathman, C.G., and **Engleman, E.G.** Cell recognition and the MHC. **Clin. Immunol. Immunopath.** 25:283-294, 1982.
51. Grumet, F.C., Pask, S.B., Ness, D.B., Fendly, B.M., and **Engleman, E.G.** A simplified new method for HLA-DR typing using the TM1 monoclonal antibody. **Human Immunol.** 6:63-73, 1983.
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53. Kotzin, B.L., Kansas, G.S., **Engleman, E.G.**, Hoppe, R.T., Kaplan, H.S., and Strober, S. Changes in T-cell subsets in patients with rheumatoid arthritis treated with total lymphoid irradiation. **Clin. Immunol. Immunopath.** 27:250-260, 1983.
54. Kaneoka, H., **Engleman, E.G.**, and Grumet, F.C. Immunochemical variants of HLA-B27. **J. Immunol.** 130:1288-1292, 1983.
55. **Engleman, E.G.**, Calin, A., and Grumet, F.C. Analysis of HLA-B27 antigen with monoclonal antibodies. **J. Rheumatol.** (Suppl. 10)10: 59-60, 1983.
56. Morhenn, V.B., Orenberg, E.K., Kaplan, J., Pfenndt, E., Terrell, C., and **Engleman, E.G.** Inhibition of a Langerhans cell-mediated immune response by treatment modalities useful in psoriasis. **J. Invest. Dermat.** 81:23-27, 1983.

57. Morhenn, V.B., Wood, G.S., **Engleman, E.G.**, and Oseroff, A.R. Selective enrichment of human epidermal cell subpopulations using monoclonal antibodies. **J. Invest. Dermat.** 81:127s-131s, 1983.
58. **Engleman, E.G.**, Benike, C.J., Metzler, C., Gatenby, P.A., and Evans, R.L. Blocking of human T lymphocyte functions by anti-Leu-2 and anti-Leu-3 antibodies: Differential inhibition of proliferation and suppression. **J. Immunol.** 130:2623-2628, 1983.
59. Field, E.H., Strober, S., Hoppe, R.T., Calin, A., **Engleman, E.G.**, Kotzin, B.L., Tanay, A.S., Calin, H.J., Terrell, C.P., and Kaplan, H.S. Sustained improvement of intractable rheumatoid arthritis after total lymphoid irradiation. **Arth. Rheum.** 26:937-946, 1983.
60. Kaneoka, H., Perez-Rojas, G., Sasasaki, T., Benike, C.J., and **Engleman, E.G.** Human T lymphocyte proliferation induced by a pan-T monoclonal antibody (anti-Leu 4): Heterogeneity of response is a function of monocytes. **J. Immunol.** 131:158-164, 1983.
61. Damle, N.K., and **Engleman, E.G.** Immunoregulatory T cell circuits in man. Alloantigen-primed inducer T cells activate alloantigen-specific suppressor T cells in the absence of the initial antigenic stimulus. **J. Exp. Med.** 158:159-173, 1983.
62. Damle, N.K., Mohaghehpour, N., Hansen, J.A., and **Engleman, E.G.** Alloantigen-specific cytotoxic and suppressor T lymphocytes are derived from phenotypically distinct precursors. **J. Immunol.** 131:2296-2300, 1983.
63. Mohaghehpour, N., Benike, C.J., Kansas, G., Bieber, C., and **Engleman, E.G.** Activation of antigen-specific suppressor T cells in the presence of cyclosporin requires interactions between T cells of inducer and suppressor lineage. **J. Clin. Invest.** 72:2092-2100, 1983.
64. Strober, S., Field, E.M., Kotzin, B.L., Hoppe, R.T., **Engleman, E.G.**, Tanay, A.S., and Kaplan, H.S. Treatment of intractable rheumatoid arthritis with total lymphoid irradiation (TLI): immunological and clinical changes. **Radiotherapy and Oncology** 1:43-52, 1983.
65. **Engleman, E.G.** The clinical use of monoclonal antibodies. **Western J. Med.** 138:707, 1983.
66. Gatenby, P. and **Engleman, E.G.** The regulation of antibody secreting cells generated in the autologous mixed leukocyte reaction in man. In: Autologous Mixed Lymphocyte Reaction: A basic immune regulatory mechanism. Ed. M. Weksler, Behring Institute Mitteilungen, No. 72, 143-152, 1983.
67. Lanier, L., **Engleman, E.G.**, Gatenby, P., Babcock, G.F., Warner, N., and Herzenberg, L. Correlation of functional properties of human lymphoid cell subsets and surface marker phenotypes using multiparameter analysis and flow cytometry. **Immunol. Rev.** 74:143-160, 1983.
68. Kotzin, B.L., Strober, S., Kansas, G.S., Terrell, C.P., and **Engleman, E.G.** Suppression of pokeweed mitogen-stimulated immunoglobulin production in patients with rheumatoid arthritis after treatment with total lymphoid irradiation. **J. Immunol.** 132:1049-1055, 1984.

69. Field, E.H., **Engleman, E.G.**, Terrell, C.P., and Strober, S. Reduced in vitro immune responses of purified human Leu-3 (helper/inducer phenotype) cells after total lymphoid irradiation. **J. Immunol.** 132:1031-1035, 1984.
70. Damle, N.K., Mohaghehpour, N., and **Engleman, E.G.** Soluble antigen- primed inducer T cells activate antigen-specific suppressor T cells in the absence of antigen-pulsed accessory cells: phenotypic definition of suppressor-inducer and suppressor-effector cells. **J. Immunol.** 132:644-650, 1984.
71. Fong, S.K.H., Perkins, S., Raubitschek, A., Larrick, J., Lizak, G., Fishwild, D., **Engleman, E.G.**, and Grumet, F.C. Rescue of human monoclonal antibody production from an EBV-transformed B cell line by fusion to a human-mouse hybridoma. **J. Immunol. Methods** 70:83-90, 1984.
72. Lifson, J.D., Benike, C.J., Mark, D.F., Kothe, K., and **Engleman, E.G.** Human recombinant interleukin-2 partly reconstitutes deficient in-vitro immune responses of lymphocytes from patients with AIDS. **The Lancet** 1:698-702, 1984.
73. Mohaghehpour, N., Damle, N.K., Moonka, D.K., Terrell, C.P., and **Engleman, E.G.** A human alloreactive inducer T cell clone that selectively activates antigen-specific suppressor T cells. **J. Immunol.** 133:133-136, 1984.
74. Khan, M.M., Sansoni, P., **Engleman, E.**, and Melmon, K.L. Distribution of β -adrenergic receptors in human T cell subsets. **Proc. West. Pharmacol. Soc.** 27:349-351, 1984.
75. Damle, N.K., Mohaghehpour, N., and **Engleman, E.G.** Activation of antigen-specific suppressor T lymphocytes in man involves dual recognition of self class I MHC molecules and Leu-4/T3-associated structures on the surface of inducer T lymphocytes. **J. Immunol.** 133:1235-1240, 1984.
76. Luft, B.J., Kansas, G., **Engleman, E.G.**, and Remington, J.S. Functional and quantitative alterations in T lymphocyte subpopulations in acute toxoplasmosis. **J. Infect. Dis.** 150:761-767, 1984.
77. **Engleman, E.G.** and Rosenbaum, J.T. HLA and disease: An overview. In: **Spondylarthropathies.** Ed. A. Calin. Grune & Stratton, Inc., pp. 279-296, 1984.
78. Damle, N.K., Mohaghehpour, N., Kansas, G.S., and **Engleman, E.G.** Multiple T lymphocyte subsets interact to regulate the immune response in man. In: **Immunogenetics--Its Applications to Clinical Medicine.** Eds. T. Sasasuki and T. Tada. Academic Press, pp. 97-108, 1984.
79. Damle, N.K., and **Engleman, E.G.** Immunoregulatory T cell circuits in man - An overview of recent advances. **Survey of Immunologic Research** 3:107-110, 1984.

80. Lifson, J.D., Benike, C.J., Mark, D.F., Koths, K., and **Engleman, E.G.** In vitro effects of purified recombinant interleukin 2 on immune functions in patients with acquired immunodeficiency syndrome. In: **Acquired Immune Deficiency Syndrome, UCLA Symposium on Molecular Biology**, New Series, Vol. 16. Eds. M.S. Gottlieb and J.E. Groopman. Alan R. Liss, Inc., New York, NY, pp. 223-246, 1984.
81. Fishwild, D., Lifson, J., and **Engleman, E.G.** Human T lymphocyte subsets defined by monoclonal antibodies: Functional analysis and application to a blood donor screening program for the AIDS carrier state. In: **Acquired Immune Deficiency Syndrome, UCLA Symposium on Molecular Biology**, New Series, Vol. 16. Eds. M.S. Gottlieb and J.E. Groopman. Alan R. Liss, Inc., New York, NY, pp. 247-263, 1984.
82. Damle, N.K., Mohaghehpour, N., Kansas, G.S., and **Engleman, E.G.** Identification of an immunoregulatory T-cell circuit in man. In: **Regulation of the Immune System, UCLA Symposium on Molecular and Cellular Biology**, New Series, Vol. 18. Eds. E. Sercarz, H. Cantor, and L. Chess. Alan R. Liss, Inc., NY, pp. 761-777, 1984.
83. Lanier, L.L., Benike, C.J., Phillips, J.H., and **Engleman, E.G.** Recombinant interleukin 2 enhanced natural killer cell-mediated cytotoxicity in human lymphocyte subpopulations expressing the Leu 7 and Leu 11 antigens. **J. Immunol.** 134:794-801, 1985.
84. Damle, N.K., Mohaghehpour, N., Kansas, G.S., Fishwild, D.M., and **Engleman, E.G.** Immunoregulatory T cell circuits in man. Identification of a distinct T cell subpopulation of the helper/inducer lineage that amplifies the development of alloantigen-specific suppressor T cells. **J. Immunol.** 134:235-243, 1985.
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86. Levitt, L., Kipps, T.J., **Engleman, E.G.** and Greenberg, P.L. Human bone marrow and peripheral blood T lymphocyte depletion: Efficacy and effects of both T cells and monocytes on growth of hematopoietic progenitors. **Blood** 65:663-679, 1985.
87. Sriram, S., Stewart, G.J., Buhler, M., Grumet, C., and **Engleman, E.** HLA-DR antigens in multiple sclerosis: two-dimensional gel electrophoresis. **Neurology** 35(2):248-251, 1985.
88. Strober, S., Tanay, A., Field, E., Hoppe, R.T., Calin, A., **Engleman, E.G.**, Kotzin, B., Brown, B.W., and Kaplan, H.S. Efficacy of total lymphoid irradiation in intractable rheumatoid arthritis. A double-blind, randomized trial. **Annals Int. Med.** 102:441-449, 1985.
89. Strober, S., Field, E., Hoppe, R.T., Kotzin, B.L., Shemesh, O., **Engleman, E.**, Ross, J.C., and Myers, B.D. Treatment of intractable lupus nephritis with total lymphoid irradiation. **Annals Int. Med.** 102:450-458, 1985.

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