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### **CONTACT INFORMATION:**

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### **POSITION**

Professor of Medicine and Division Chief, Division of Immunology and Rheumatology,  
Department of Medicine  
Director, Center for Clinical Immunology at Stanford (CCIS)

### **EDUCATION**

1964: University of Kentucky, Lexington, KY: B.A.  
1969: Washington University School of Medicine, St. Louis, MO: M.D.

### **PROFESSIONAL EXPERIENCE**

1969-1971: Intern and Resident in Medicine, Dartmouth Affiliated Hospitals, Hanover, NH

1971-1973: Postdoctoral Fellow in Immunology, Division of Immunology, Stanford University, Stanford, CA

1973-1975: Clinical Associate, Immunology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1975-1977: Member, Basel Institute for Immunology, Basel, Switzerland

1977-1981: Associate Professor, Department of Immunology, Mayo Clinic, Rochester, MN

1981-1989: Associate Professor of Medicine, Division of Immunology and Rheumatology, Department of Medicine, Stanford University School of Medicine, Stanford, CA

1989-present: Professor of Medicine, Department of Medicine, Division of Immunology and Rheumatology, Stanford University School of Medicine, Stanford, CA

1993-present: Director, Center for Clinical Immunology at Stanford (CCIS), Stanford University School of Medicine, Stanford, CA

1997-present: Division Chief, Division of Immunology and Rheumatology, Department of Medicine, Stanford University School of Medicine, Stanford, CA

## **EDITORIAL and ADVISORY BOARDS**

Annales de l'Institut Pasteur Immunologie (1985-1989)  
Annual Review of Immunology - Associate Editor (1981-2005)  
Clinical Immunology and Immunopathology - Associate Editor (1998-2003)  
Journal of Clinical Immunology - Editorial Board (1998-2003)  
Journal of Clinical Investigation (1985-1990)  
Journal of Immunology (1979-1984); Section Chief, Cellular Immunology (1986-1990);  
Rapid Communications Reviewer (1995-2000)  
Journal of Molecular and Cellular Immunology (1984-1988)  
Nature Clinical Practice Rheumatology - Advisory Board Member (2005 – present)  
The Immunologist - Editorial Board (1996-1999)  
Transplantation (1979-1984)

## **PROFESSIONAL SOCIETIES**

American Association of Immunologists (AAI)  
American College of Rheumatology (ACR)  
American Diabetes Association (ADA)  
American Society for Clinical Investigation (ASCI) (Council 1984-1987)  
Arthritis Foundation (AF)  
Association of American Physicians (AAP)  
Clinical Immunology Society (CIS) (Council 1993-2001) (President 2000)  
Juvenile Diabetes Research Foundation (JDRF)  
The Henry Kunkel Society

## **ADMINISTRATIVE DUTIES**

Director, Center for Clinical Immunology at Stanford  
Division Chief, Division of Immunology and Rheumatology (1997-present)  
Chairman of the Federation of Clinical Immunology Societies (FOCIS) (2000-present)  
Co-Chairman of the Autoimmunity Committee of the Immune Tolerance Network (ITN)  
Hyper-accelerated Award/Mechanisms in Immune Disease Trials Study Section,  
Chairman (1998-2000)  
Immunological Sciences Study Section (1986-1990), Chairman (1989-1990)  
Council, American Society for Clinical Investigation (1984-1987)  
Council, Clinical Immunology Society (1993 -present) and President (2000-2001)  
Chairman, FASEB Summer Research Conference on Autoimmunity (1983, 1986, 1988,  
1995, and 1997)  
Member American Association of Immunologists  
Clinical Immunology Committee, (7/1/94 - 6/30/97) Program Committee (1989-1992)  
Member, HHMI Review Panel for the Research Training Fellowships for Medical  
Students Program (1996 - 1998)  
Director, Program Project Grant on Diabetes (1992-1997) (1997-2002)  
Director, Program Project Grant on Gene Therapy of EAE (1998-2003)  
Executive Council, Washington University School of Medicine Alumni Association  
(1995-1997); Outstanding Alumni Award (1999)  
Juvenile Diabetes Foundation International Medical Science Review Committee (1990  
-1994)  
International Diabetes Immunotherapy Group Executive Committee (1990-1994)  
American Diabetes Association Research Committee (1990-1993)  
American Diabetes Association California Chapter Research Policy Committee (1989-  
1992)

Co-Chairman, NIAID Task Force (1980 and 1990)  
Director, Program Project Grants on Autoimmunity (1984-1989) (1996-2001)  
Director, Biomedical Research Unit, Stanford Multipurpose Arthritis Center (1983-1988)  
Council of the Midwinter Conference of Immunologists (1981-1986)  
Chairman, Arthritis Foundation Task Force on Postgraduate Training (1986)  
Fellowship Committee, Arthritis Foundation Research Committee (1983-1986)  
Scientific Advisory Board, Bayhill Therapeutics (2003)  
Nancy Davis' Center Without Walls Scientific/Medical Advisory Committee (2003-present)  
ICOS Corporation Scientific Advisory Board (2003 – present)  
Pepgen Corporation Scientific Advisory Board (2003-present)  
Novartis, Transplantatation Advisory Board (2005-present)  
LumenTherapeutics, Chairman, Scientific Advisory Board(2001-present)

## **PUBLICATIONS**

1. **Fathman, C. Garrison**, Handwerger, Barry S., and Sachs, David H. (1974) Evidence for a role of Ia associated alloantigens in mixed lymphocyte culture stimulation. *J. Exp. Med.* 140:853-58.
2. **Fathman, C. Garrison**, Small, M., Herzenberg, L.A., and Weissman, I.L. (1975) Thymus cell maturation. II. Differentiation of three "mature" subclasses *in vivo*. *Cell. Immunol.* 15:109
3. Cantor, H., Simpson, E., Sato, V.L., **Fathman, C. Garrison**, and Herzenberg, L.A. (1975) Characterization of subpopulations of T lymphocytes. I. Separation and functional studies of peripheral T cells binding different amounts of fluorescent anti-Thy 1.2 (theta) antibody using a fluorescence activated cell sorter (FACS). *Cell. Immunol.* 15:180.
4. Sachs, D.H., **Fathman, C. Garrison**, Cone, J.L., and Dickler, H.B. (1975) Detection of antibodies to Ia antigens in H-2 alloantisera. *Transplant. Proc.* VII:123-6.
5. **Fathman, C. Garrison**, Cone, J.L., Sharrow, S.O., Tyrer, H., and Sachs, D.H. (1975) Ia alloantigen(s) detected on thymocytes by use of a fluorescence-activated cell sorter. *J. Immunol.* 115:584-589.
6. **Fathman, C. Garrison** and Sachs, David H. (1976) Genetic control of the immune response to nuclease. II. Detection of idiotypic determinants by the inhibition of antibody-mediated nuclease inactivation. *J. Immunol.* 116:959-969.
7. Schwartz, Ronald H., **Fathman, C. Garrison** and Sachs, David H. (1976) Inhibition of stimulation in murine mixed lymphocyte cultures with an alloantiserum directed against a shared Ia determinant. *J. Immunol.* 116:929-935.
8. **Fathman, C. Garrison**, Pisetsky, D.S. and Sachs, D.H. (1977) Genetic control of the immune response to nuclease. V. Genetic linkage and strain distribution of anti-nuclease idiotypes. *J. Exp. Med.* 145:569-578.
9. **Fathman, C. Garrison**, Collavo, D., Davies, S., and Nabholz, M. (1977) *In vitro* secondary MLR. I. Kinetics of proliferation and specificity of *in vitro* primed responder cells. *J. Immunol.* 118:1232-1238.
10. **Fathman, C. Garrison** and Nabholz, M. (1977) *In vitro* secondary mixed leukocyte reaction (MLR). II. Interaction MLR determinants expressed by F1 cells. *Eur. J. Immunol.* 7:370-374.
11. von Boehmer, H., **Fathman, C. Garrison** and Haas, W. (1977) H-2 complementation in cytotoxic T cell responses of female against male cells. *Eur. J. Immunol.* 7:443-447.
12. Watanabe, T., **Fathman, C. Garrison** and Coutinho, A. (1977) T cells which proliferate in response to concanavalin A include cells which proliferate in mixed leukocyte reactions. *Eur. J. Immunol.* 7:603-607.
13. **Fathman C.G.**, and Hengartner, H. (1978) Clones of alloreactive T cells. *Nature* 272:617-8.
14. **Fathman, C. Garrison**, Watanabe, Takeshi, and Augustin, Andrei. (1978) *In vitro* secondary MLR. III. Hybrid histocompatibility determinants. *J. Immunol.* 121:259-64.

15. **Fathman, C. Garrison**, and Infante, P. Diane. (1979) Hybrid I region antigens and I region restriction of recognition in MLR. *Immunogen.* 8:577-81.
16. **Fathman, C. Garrison**, and Hengartner, Hans. (1979) Clones of alloreactive T-cells. II. Cross reactive mixed lymphocyte reaction determinants recognized by cloned alloreactive T cells. *Proc. Natl. Acad. Sci. USA* 76:5863-6.
17. Suzuki, Koji, **Fathman, C. Garrison**, and Tomasi, Thomas B. Jr. (1979) Non-H-2 linked control of low versus high responses of antigen-induced lymph node cell proliferation: Possible role for antigen-presenting cells. *J. Immunol.* 123:1530-4.
18. Hengartner, Hans, and **Fathman, C. Garrison**, and Tomasi, Thomas B. Jr. (1980) Clones of alloreactive T cells. I. A unique homozygous MLR-stimulating determinant present on B6 stimulators. *Immunogen.* 10:175-84.
19. **Fathman, C.G.**, and Weissman, I.L. (1980) Production of alloreactive T-cell lymphomas. *Nature* 283:404-6.
20. Griffing, W. Leroy, Moore, S. Breannan, Luthra, Harvinder S., McKenna, Charles H., and **Fathman, C. Garrison**. (1980) Associations of antibodies to native DNA with HLA-DRw3: A possible major histocompatibility complex-linked human immune response gene. *J. Exp. Med.* 152:319s-25s.
21. Kimoto, Masao, and **Fathman, C. Garrison**. (1981) Antigen-reactive T cell clones. I. Transcomplementing hybrid I-A-region gene products function effectively in antigen presentation. *J. Exp. Med.* 152:759-70.
22. Kimoto, Masao, and **Fathman, C. Garrison**. (1981) Antigen-reactive T cell clones. II. Unique homozygous and (high responder x low responder) F hybrid antigen-presenting determinants detected using poly(Tyr,Glu)-poly D, L-Ala—poly Lys-reactive T cell clones. *J. Exp. Med.* 153:375-85.
23. **Fathman, C. Garrison**, Kimoto, Masao, Melvold, Roger, and David, Chella S. (1981) Reconstitution of Ir genes, Ia antigens, and mixed lymphocyte reaction determinants by gene complementation. *Proc. Natl. Acad. Sci. USA* 78:1853-7.
24. Kimoto, Masao, Krenz, Teresa J., and **Fathman, C.G.** (1981) Antigen-reactive T cell clones. III. Low responder antigen-presenting cells function effectively to present antigen to selected T cell clones derived from (high responder x low responder)F mice. *J. Exp. Med.* 154: 883-91.
25. Shigeta, Minoru, and **Fathman, C. Garrison**. (1981) I-region genetic restrictions imposed upon the recognition of KLH by murine T-cell clones. *Immunogenet.* 14:415-22.
26. Hodes, Richard J., Kimoto, Masao, Hathcock, Karen S., **Fathman, C. Garrison**, and Singer, Alfred. (1981) Functional helper activity of monoclonal T cell populations: Antigen-specific and H-2 restricted cloned T cells provide help for in vitro antibody responses to trinitrophenol-poly(1Tyr,Glu)-poly(DLAla) --poly(LLys). *Proc. Natl. Acad. Sci. USA* 78:6431-5.

27. McKean, D.J., Infante, A.J., Nilson, A., Kimoto, M., **Fathman, C.G.**, Walker, E., and Warner, N. (1981) Major histocompatibility complex-restricted antigen presentation to antigen-reactive T cells by lymphocyte tumor cells. *J. Exp. Med.* 154:1419-31.
28. Infante, A.J., Atassi, M.Z., and **Fathman, C.G.** (1981) T cell clones reactive with sperm whale myoglobin. Isolation of clones with specificity for individual determinants on myoglobin. *J. Exp. Med.* 154:1342-56.
29. Hodes, Richard J., Shigeta, Minoru, Hathcock, Karen S., **Fathman, C. Garrison**, and Singer, Alfred. (1982) Role of the major histocompatibility complex in T cell activation of B cell subpopulations: Antigen-specific and H-2-restricted monoclonal T cells activate Lyb-5+ B cells through an antigen-nonspecific and H-2-unrestricted effector pathway. *J. Immunol.* 129:267-71.
30. Infante, A.J., Infante, P.D., Gillis, S., and **Fathman, C.G.** (1982) Definition of T cell idiotypes using anti-idiotypic antisera produced by immunization with T cell clones. *J. Exp. Med.* 155:1100-7.
31. Beck, Barbara N., Infante, Anthony J., and **Fathman, C. Garrison**. (1982) Functional similarities of A $\beta$ E $\beta$  Ia molecules as determined by analysis with T-cell clones. *Immunogenetics* 15:565-71.
32. Dailey, Morris O., **Fathman, C. Garrison**, Butcher, Eugene C., Pillemer, Eric and Weissman, Irving. (1982) Abnormal migration of T lymphocyte clones. *J. Immunol.* 128:2134.
33. Asano, Yoshihiro, Shigeta, Minoru, **Fathman C. Garrison**, Singer, Alfred, and Hodes, Richard J. (1982) Role of the major histocompatibility complex in T cell activation of B cell subpopulations. A single monoclonal T helper cell activation of B cell subpopulations. A single monoclonal T helper cell population activates different B cell subpopulations by distinct pathways. *J. Exp. Med.* 156:350-60.
34. Beck, Barbara N., Frelinger, John G., Shigeta, Minoru, Infante, Anthony J., Cummings, D., Hammerling, G. and **Fathman, C. Garrison**. (1982) T cell clones specific for hybrid I-A molecules. Discrimination with monoclonal anti-I-A antibodies. *J. Exp. Med.* 156:1186-94.
35. Mao, S.J.T., Kazmar, R.E., Silverfield, J.D., Alley, M.C., Kluge, KI, and **Fathman, C.G.**: (1982) Immunochemical properties of human low-density lipoproteins as explored by monoclonal antibodies. Binding characteristics distinct from that of conventional serum anti-LDL antibodies. *Biochim. Biophys. Acta* 713:365-374.
36. Hertel-Wulff, Birgit, Goodman, Joel W., **Fathman, C. Garrison**, and Lewis, George K. (1983) Arsonate-specific murine T cell clones. I. Genetic control and antigen specificity. *J. Exp. Med.* 157:987-97.
37. Beck, Barbara N., Nelson, Patricia A., **Fathman, C. Garrison**. (1983) The I-A mutant B6.C-H-2bm12 allows definition of multiple T cell epitopes on I-A molecules. *J. Exp. Med.* 157:1396-1404.
38. Frelinger, John G., Shigeta, Minoru, Infante, Anthony J., Nelson, Patricia A., Pierres, Michel and **Fathman, C. Garrison**. (1983) Multiple functional sites on a single Ia molecule defined using T cell clones and chain specific anti-I-A antibodies. *J. Exp. Med.* 159:704-715.

39. Kyewski, B. A., **Fathman, C. Garrison** and Kaplan, H. S. (1984) Intrathymic presentation of circulating non-MHC antigens. *Nature* 308:196-199.
40. Mengle-Gaw, Laurel, Conner, Susan, McDevitt, Hugh O., and **Fathman, C. Garrison**. (1984) Gene conversion between murine class II MHC loci. *J. Exp. Med* 150:1184.
41. Cunningham, Anthony L, Nelson, Patricia A., **Fathman, C. Garrison**, and Merigan Thomas C. (1985) Interferon gamma production by herpes simplex virus antigen-specific T cell clones from patients with recurrent herpes labialis. *J. Gen. Virol.* 66:249-258.
42. Khan, Manzoor, Melmon, Kenneth L., **Fathman, C. Garrison**, Hertel-Wulff, Birgit, and Strober, Samuel. (1985) The effects of autacoids on cloned murine lymphoid cells. Modulation of IL-2 secretion and the activity of natural suppressor cells. *J. Immunol.* 134:4100-4106.
43. Dallman, Margaret and **Fathman, C. Garrison**. (1985) Type II collagen reactive T cell clones from mice with collagen induced arthritis. *J. Immunol.* 135:1113-1118.
44. Navarro, R.F., Jalkanen, S.T., Soenderstrup-Hansen, G., Goronzy, J., Weyand, C., **Fathman, C.G.**, Clayberger, C., Krensky, A. and Butcher, E.C. (1985) Human T cell clones express functional homing receptors required for normal lymphocyte trafficking. *J. Exp. Med.* 162:1075-1080.
45. Shigeta, Minoru, Takahara, Shiro, Knox, Susan J, Ishihara, Toshiki, Vitetta, Ellen S., and **Fathman, C. Garrison**. (1986) Two independent pathways of helper activity provided by a single T cell clone. *J. Immunol.* 136:34-38.
46. Ishihara, Toshiki, Takahara, Shiro and **Fathman, C. Garrison**. (1986) IL-2 restores memory B cell activation by antigen-specific T cell clone variants. *J. Immunol.* 136:39-43.
47. Weyand, Cornelia, Goronzy, Jorg, and **Fathman, C. Garrison**. (1986) Human T cell clones used to define functional epitopes on HLA Class II molecules. *Proc. Natl. Acad. Sci. USA.* 83:762-766.
48. Goronzy, J., Weyand, C., and **Fathman, C.G.** (1986) Shared T cell recognition sites on HLA class II molecules of patients with seropositive rheumatoid arthritis. *J. Clin. Invest.* 77:1042-1049.
49. Kyewski, B.A., **Fathman, C.G.** and Rouse, R.V. (1986) Intrathymic presentation of circulating non-MHC-antigens by medullary dendritic cells: An antigen-dependent microenvironment for T cell differentiation. *J. Exp. Med.* 163:231-246.
50. Kimoto, Masao and **Fathman, C. Garrison**. (1986) One I region restriction determinant can associate with multiple antigenic epitopes. *Microbiol. Immunol.* 30:133142.
51. Weyand, C., Goronzy, J., Dallman, M., and **Fathman, C.G.** (1986) Administration of recombinant interleukin-2 in vivo induces a polyclonal response. *J. Exp. Med.* 163:1607-1612.

52. Goronzy, Jorg, Weyand, Cornelia M. and **Fathman, C. Garrison** (1986). Long-term humoral unresponsiveness in vivo induced by treatment with monoclonal antibody against L3T4. J. Exp. Med. 164:911-925.
53. Nakahara, K., Bjorn, M. J., Kaplan, D. and **Fathman, C. Garrison**. (1986) The effectiveness of anti-Ia-immunotoxins in suppression of MLR. Transplantation. 42(2):205-211.
54. Shizuru, Judith A., Ramakrishnan, S., Hunt, Thurman, Merrell, Ronald C., and **Fathman, C. Garrison**. (1986) Inhibition of rat mixed lymphocyte pancreatic islet cultures with anti-Ia immunotoxin. Transplantation 42:660-666.
55. Weyand, Cornelia M., Goronzy, J., and **Fathman, C. Garrison**. (1987) Modulation of CD4 by antigenic activation. J. Immunol. 138:1351-1358.
56. Goronzy, Jorg, Weyand, Cornelia, Imboden, John, Manger, Bernhard and **Fathman, C. Garrison**. (1987) Heterogeneity of signal requirements in T cell activation within a panel of human proliferative T cell clones. J. Immunol. 138:3087-3093.
57. Weyand, Cornelia, Goronzy, Jorg, **Fathman, C. Garrison** and O'Hanley, Peter. (1987) Administration in vivo of recombinant interleukin-2 protects mice against septic death. J. Clin. Invest. 79:1756-1763.
58. Shizuru, Judith, Gregory, Anita K., Chao, Cynthia and **Fathman, C.G.** (1987) Islet allograft survival after a single course of treatment of recipient with antibody to L3T4. Science 237:278-280.
59. Morel, Penelope, Livingstone, Alexandra M. and **Fathman, C. Garrison**. (1987) Correlation of T cell receptor V- $\beta$  gene family with MHC restriction. J. Exp. Med. 166:583-588.
60. Shizuru, Judith, Taylor-Edwards, Caryl, Banks, Beth Ann, Gregory, Anita K. and **Fathman, C. Garrison**. (1988) Immunotherapy of the nonobese diabetic mouse: treatment with an antibody to T-helper lymphocytes. Science 240:659-652.
61. Kaufman, Dan S., Kong, Christina S., Shizuru, Judith, Gregory, Anita K. and **Fathman, C. G.** (1988) Use of anti-L3T4 and anti-Ia treatments for prolongation of xenogeneic islet transplants. Transplantation 46:210-215.
62. Morel, Penelope, Erlich, Henry and **Fathman, C. Garrison**, (1988). A new look at the shared epitope hypothesis. Am. J. Med. 85:20-22.
63. Romani, Nikolaus, Koide, Sumi, Crowley, Mary, Witmer-Pack, Margit, Livingstone, Alexandra M., **Fathman, C. Garrison**, and Steinman, Ralph M. (1989) Presentation of exogenous protein antigens by dendritic cells to T cell clones: intact protein is presented best by immature, epidermal Langerhans cells. J. Exp. Med. 169:1169-1178.
64. Goronzy, Jorg, Weyand, Cornelia, Quan, JoAnne, **Fathman, C. Garrison** and O'Hanley, Peter. (1989) Cell-mediated protection against fatal Escherichia coli septicemia induced by treatment with recombinant interleukin-2. J. Immunol. 142:1134-1133.

65. Butterfield, Karen, **Fathman, C. Garrison**, and Budd, Ralph. (1989) A Subset of Memory CD4 + Helper T Lymphocytes Identified by Expression of PgP-1 . *J. Exp. Med.* 169:1461-1466.
66. Trager, David K., Banks, Beth Ann, Holm Bari J, Shizuru, Judith A., Strober, Samuel and **Fathman, C. Garrison**. (1989) Cardiac allograft prolongation in mice treated with combined post-transplant total lymphoid irradiation and anti-L3T4 antibody therapy. *Transplantation* 47:587-591.
67. Weyand, C.M., Goronzy, J., Swartztrauber, K., and **Fathman, C. Garrison**. (1989) Immunosuppression by anti-CD4 treatment in vivo: cellular and humoral responses to antigens. *Transplantation*. 47:1039-1042.
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69. Morel, Penny, Horn, Glenn, Budd, Ralph, Erlich, Henry, and **Fathman, C. Garrison**. (1990) Shared molecular markers of genetic predisposition to seropositive rheumatoid arthritis. *Human Immunol.* 27:(2):90-99.
70. Danska, Jayne S., Livingstone, Alexandra, Paragas, Violette, Ishihara, Toshiki and **Fathman, C. Garrison** (1990) The presumptive CDR3 regions of both T cell receptor  $\alpha$  and  $\beta$  chains determine T cell specificity for myoglobin peptides. *J. Exp. Med.* 172:27-36.
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72. Shizuru, Judith A., Seydel, Karl B., Flavin, Thomas F., Wu, Anna P., Kong, Christina C., Hoyt, E. Grant, Fujimoto, Nobumasa, Billingham, Margaret E., Starnes, Vaughn A., and **Fathman, C. Garrison**. (1990) Induction of donor-specific unresponsiveness to cardiac allografts in rats by pre-transplant anti-CD4 monoclonal antibody therapy. *Transplantation*, 50:366-373.
73. Pure, Ellen, Kayo, Inaba, Crowley, Mary, Tardelli, Lisa, Witmer-Pack, Margit, Ruberti, Giovina, **Fathman, C. Garrison**, and Steinman, Ralph M. (1990) Antigen processing by epidermal Langerhans cells correlates with the level of biosynthesis of MHC class II molecules and expression of invariant chain. *J. Exp. Med.* 172:1483-1494.
74. McClure, Gregg R., Ruberti, Giovina, **Fathman, C. Garrison**, Erlich, Henry A. and Begovich, Ann B. (1990) DRB1\*LY10 - A new DRBI allele and its haplotypic association. *Immunogenetics* 32:214-217.
75. Livingstone, Alexandra, Taylor-Edwards, Cariel, Shizuru, Judith and **Fathman, C. Garrison**. (1991) Genetic analysis of diabetes in the nonobese diabetic mouse I. MHC and T cell receptor gene expression. *J. Immunol.* 146:529-534.
76. Alters, Susan E., Shizuru, Judith A., Ackerman, Jill, Grossman, Davida, Seydel, Karl B. and **Fathman, C. Garrison**. (1991) Anti-CD4 mediates clonal anergy during transplantation tolerance induction. *J Exp Med* 173:491-494.

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78. Ruberti, Giovina, Gaur, Amitabh, **Fathman, C. Garrison**, and Livingstone, Alexandra M. (1991) The T cell receptor repertoire influences V $\beta$  element usage in response to myoglobin. *J. Exp. Med.* 174:83-92.
79. Shizuru, Judith A., Taylor-Edwards, Cariel, Livingstone, Alexandra, and **Fathman, C. Garrison**. (1991) Genetic dissection of TCR V $\beta$  gene requirements for spontaneous murine diabetes. *J. Exp. Med.* 174:633-638.
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81. Ruberti, Giovina, Sellins, Karen S., Germain, Ronald G., **Fathman, C. Garrison**, and Alexandra Livingstone. (1992) Presentation of antigen by mixed isotype class II molecules in normal H-2d mice. *J. Exp. Med.* 175:157-162.
82. Sellins, Karen, Danska, Jayne, Paragas, Violette, and **Fathman, C. Garrison**. (1992) Limited T cell receptor  $\beta$ -chain usage in the sperm whale myoglobin 110-121/EadA $\beta$ d response by H-2d congenic mouse strains. *J. Immunol.* 149:2323-2327.
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87. Gaur, Amitabh, **Fathman, C. Garrison**, Steinman, Lawrence, Brocke, Stefan. (1993) SEB-induced anergy: modulation of immune response to T cell determinants of myoglobin and myelin basic protein. *J. Immunol.* 150:3062-3069.
88. Brocke, Stefan, Gaur, Amitabh, Piercy, Christopher, Gijbels, Koenraad, **Fathman, C. Garrison**, and Steinman, Lawrence. (1993) Induction of relapsing paralysis in EAE by bacterial superantigen. *Nature*. 365:642-644.

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**MANUSCRIPTS "IN PRESS", "SUBMITTED" or "IN PREPARATION"**

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### **BOOKS**

1. Isolation, Characterization and Utilization of T Lymphocyte Clones. (1982) Eds. **Fathman, C. G.** and F. W. Fitch. Academic Press, Inc.

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