

CURRICULUM VITAE - CHARLES LAWRENCE SIDMAN

(March, 2023)

PERSONAL:

CONTACTS: (Email) csidman@acadia.net (H), csidman@ecs-partners.com (W)
(Tel) 207-288-0428 (W/M)

RESIDENCE: P. O. Box 200, Bar Harbor, ME 04609

BORN: June 7, 1950, New York, NY

CITIZEN: U.S.A.

FAMILY: Married, two children, five grandchildren

EDUCATION:

1971 A.B., Biochemical Sciences, Harvard College, Cambridge, MA

1972 A.M., Biochemistry, Harvard University, Cambridge, MA

1976 Ph.D., Immunology, Harvard University (Harvard Medical School), Boston, MA

1998 M.B.A., Management, University of Cincinnati, Cincinnati, OH

1999 Sabbatical, Complexity Science, Santa Fe Institute, Santa Fe, NM

EMPLOYMENT:

1976 - 1978 Research Fellow in Pathology, Harvard Medical School, Boston, MA

1978 - 1983 Member, Basel Institute for Immunology, Basel, Switzerland
(Founded and supported by Hoffmann La Roche, A.G.)

1982 - 1992 Staff Scientist, The Jackson Laboratory, Bar Harbor, ME

1991 - 2010 Professor of Molecular Genetics, Biochemistry and Microbiology, College of
Medicine, and Professor of Management, College of Business, University of
Cincinnati, Cincinnati, OH

2010 - present Managing Partner, ECS Capital Partners, Bar Harbor, ME

CURRENT MEMBERSHIPS:

American Association for the Advancement of Science
American Association of Immunologists
American Society for Biochemistry and Molecular Biology
Angel Capital Association (Founding Member of organization and Public Policy Committee)
Angel Syndication Network
ECS Capital Partners and Angels (Founder and Managing Partner/Member)
European Business Angels Network
Global Business Angels Network
Global Entrepreneurship Network
Global Super Angel Club
Hivers and Strivers
Human Genome Organization
Keiretsu Forum
Maine Angels (Founding Chairman Emeritus)
Metanexus Institute
Mount Desert Island Biological Laboratory (Life Member, now focused on Environmental Science
and Regenerative Medicine)
National Association of Corporate Directors
National Speakers Association
Society for Corporate Compliance and Ethics
Sophia Business Angels

INSTITUTIONAL SERVICE:

(Harvard University)

1976 - 1978 Immunology Graduate Program Student Advisor

(The Jackson Laboratory)

1983 - 1987 Staff Search Committee
1983 - 1991 Education Committee
1984 - 1987 Research Grants Committee
1984 - 1992 Staff Supervisor, Flow Cytometry Service

(University of Cincinnati)

1992 - 2010 Lecturer and/or Lab Section Instructor, Medical Microbiology
1992 - 1995 Graduate Microbiology Faculty
1992 - 1993 "Ethics in Research" Faculty
1992 - 1995 Search Committee for Head of Rheumatology, Dept. of Medicine
1992 - 1997 Steering Committee for Clinical and Experimental Immunology
1993 Dean's Task Force on Immunology Graduate Education
1993 - 1994 Organizer, "Immunology Work-in-Progress" Seminars
1993 - 2001 Course Leader, Graduate Seminar "Topics in Genetics"
1994 "Immunobiology of Disease" Lecturer

1994 - 2010 All-University Graduate Faculty
 1994 - 1995 President’s Task Force on Pedagogy (Report Section Writer)
 1995 - 2001 “Introductory Immunology” Lecturer
 1995 - 1997 “Autoimmunity and Autoimmune Disease” Lecturer
 1995 - 1999 Advisor, UC Flying Club
 1995 - 2006 Course Leader, Honors Scholars Program Special Topics Course
 “Science and Society: Ethical Dimensions of Scientific Research”
 1995 - 1996 Steering Committee “Teaching and Learning Across the Curriculum”
 1996 Merit Mediation Panel Member
 1996 “Ethics in Research” (College of Medicine) discussion organizer
 1999 – 2008 Adjunct Professor of Management, College of Business
 1999 - 2005 Course Leader, College of Business Administration Graduate Seminar
 “Management and Innovation”
 2000 - 2008 Member, UC Total Quality Management Center
 2001 Course Co-Leader, Graduate Student Journal Club, Dept. of Mol. Gen.
 2001 Course Leader, College of Business Administration Honors-PLUS
 Course “Issues in Contemporary Business: Micro- and Macro-Ethics”
 2001 - 2006 Member, Honors Scholars Program Council
 2001 - 2006 Member, Honors Scholars Programming Committee (Chair, 2004-6)
 2001 - 2006 Member, Honors Leadership Certificate Committee
 2002 - 2006 Course Leader, Honors Scholars Program Special Topics Course
 “Human Diversity: Views from Within and Without”
 2002 - 2006 Course Leader, Honors Scholars Program, “Supervised Teaching”
 2003 - 2005 Course Leader, College of Business Administration Graduate
 Seminar “Business Ethics and Corporate Responsibility”
 2003 - 2010 Member, Ethnic Studies Advisory Committee
 2003 - 2007 Member, Entrepreneurial Advisory Committee
 2003 - 2005 Member, Faculty Grievance Committee
 2003 – 2004 Director, Joint MS(Biotech)/MBA Program
 2004 - 2005 Course Leader, College of Business Administration Undergraduate Course
 “Issues in Business Ethics and Corporate Responsibility: Domestic and
 International”
 2004 Member, UC21 Implementation Team for Academic Excellence
 2005 - 2006 Course Leader, Honors Scholars Program Special Topics Course
 “Complex Systems”
 2005 - 2006 Course Leader, Honors Scholars Program Special Topics Course
 “Science and Religion”
 2005 Course Leader, Honors Scholars Program Special Topics Course
 “Politics, Democracy and Business Ethics”
 2005 Course Leader, Honors Scholars Introductory Freshman Seminar

OTHER PROFESSIONAL ACTIVITIES:

1966 - present Technology (mostly Biomed and Information), innovation and organizational
 management consulting (currently, Evolutionary Management, Inc.)
 1972 - 1976 Teaching Fellow, Dept. of Biology, Harvard College, Cambridge, MA,
 and Harvard Medical School, Boston, MA

1976 - 2010 Journal reviewer for:

- Advances in Dental Research
- American Journal of Respiratory Cell and Molecular Biology
- Blood
- Bone Marrow Transplantation
- Cytometry
- EMBO Journal
- European Journal of Immunology
- Growth, Development and Aging
- Immunity
- Infection and Immunity
- International Immunology
- Journal of Clinical Investigation
- Journal of Experimental Medicine
- Journal of Immunology (Associate Editor, 1984-1988)
- Molecular Immunology
- Nature
- Nucleic Acids Research
- Proceedings of the National Academy of Science
- Science
- Transplantation

1978 - 2010 Grant reviewer for:

- Arthritis Foundation of Canada
- Center for Indoor Air Research
- Maine Center for Innovation in Biomedical Technology
- National Institutes of Health
- National Science Foundation
- U. S. Veterans' Administration
- Wolf Foundation of Germany

1976 - present Lecturer or consultant at:

- African Business Angels Network
- American Association of Immunologists
- American Red Cross
- Angel Capital Association
- Angelpool
- Basel Institute for Immunology, Switzerland
- Becton Dickinson, Inc.
- Beth Israel Hospital
- Bioimage, Inc.
- Cambridge University, England
- Cancer Prevention Research Institute
- Childrens' Hospital, Cincinnati

Ciba-Geigy, A.G., Switzerland
College of the Atlantic
Colorado School of Mines
Consumer Specialty Products Association
Content Directions, Inc.
Cornell University
Crowdfunding Professional Association
Dartmouth University
Duke University
Dutch Red Cross Central Blood Laboratory, Netherlands
Eastern Maine Medical Center
Eli Lilly, Inc.
Emory University
Eunice Kennedy Shriver Center
European Business Angel Network
European Molecular Biology Laboratory, Germany
Federal Aviation Administration
FMC, Inc.
Foundation for Blood Research
Frederick Cancer Research Center
Global Business Angels Network
Global Protein Products
Hamilton College
Harvard Business School Club of Maine
Harvard University
Harvey Mudd College
Herbal Research, LLC
Hoefer Scientific Inc.
Hoffman La Roche, A.G.
Institute for Applied Ethics
International Quality and Productivity Center
Intracellular Imaging, Inc.
Jackson Laboratory
Johnson & Johnson, Inc.
King's College, England
Large Scale Biology Company
Leadership Council of Human Service Executives
Maine Center for Enterprise Development
Maine Cytometry Research Institute
Maine Medical Center
Mallory, Inc
Manitoba Institute of Cell Biology, Canada
Massachusetts General Hospital
Mayo Clinic
McGill University, Canada
McLaughlin Research Institute
Medical Biology Institute
Medscand Ingeny B.V., Netherlands

Miescher Institute, Switzerland
Merck, Sharpe & Dohme, Inc.
Middle East Business Angels Network
Motorola, Inc.
Mount Desert Island Biological Laboratory
Mount Sinai Medical Center
National Academy of Human Resources
National Angel Capital Organization, Canada
National Association of Seed and Venture Funds
National Council of Entrepreneurial Tech Transfer
National Human Resources Association
National Institutes of Health
National Jewish Hospital
New York Academy of Sciences
New York State Department of Health
New York University
Ontario Cancer Institute, Canada
Ortho Pharmaceuticals, Inc.
Pasteur Institute, France
Pfizer, Inc.
Pharming, Inc.
Polish Academy of Sciences, Poland
Proctor and Gamble, Inc.
Professional Consultants of Maine
Protein Databases Inc.
St. Jude's Children's Research Hospital
Salk Institute
Sandoz, A.G.
Santa Fe Institute
Sarasota Symposium on Behavior Analysis
Schering Plough, Inc.
Scripps Clinic and Research Institute
Securities and Exchange Commission
SFI Business Network
Society for Corporate Compliance and Ethics
Society for Empirical Ethics
Sophia Business Angels Venture Academy
Stanford University
Swiss Red Cross, Switzerland
TNO, Netherlands
Trudeau Institute
Tufts University
Uniformed Services University of Health Sciences
United States Embassy to the European Union
United States House of Representatives
United States Securities and Exchange Commission
United States Senate
University College, England

University of Auckland, New Zealand
University of Basel, Switzerland
University of California
University of Cologne, Germany
University of Freiburg, Germany
University of Geneva, Switzerland
University of Kentucky
University of Lausanne, Switzerland
University of Lille, France
University of Lyons, France
University of Maine
University of Marburg, Germany
University of Massachusetts
University of New Mexico
University of New York
University of North Carolina
University of Pennsylvania
University of Stirling, Scotland
University of Texas
University of Toronto, Canada
University of Tübingen, Germany
University of Utah
University of Washington
University of Wisconsin
University of Zurich, Switzerland
Volga (now Vox) Angels
Washington University
Weizman Institute, Israel
Williams College
Wistar Institute
World Business Angels Investment Forum
Yale University

1983 - 1991 Coop. Faculty, Dept. of Biochemistry, University of Maine, Orono, ME

1987 - 1994 Guest Faculty, College of the Atlantic, Bar Harbor, ME

1988 - 1991 Consultant, Maine Cytometry Research Institute, Portland, ME

1989 - 1992 Advisory Board, Maine Center for Innovation in Biomedical Technology

1992 - 1995 Associate, Pacific Center for Ethics and Applied Biology, San Diego, CA

1994 Member, NIH Advisory Panel on “Neuroimmunology and Mental Health”

1999 Sabbatical visitor, Santa Fe Institute, Santa Fe, NM. Projects undertaken include basic genetics, evolutionary theory and models, and applications to business and organizational design and behavior

- 2002 - 2014 Member, Queen City Angels, Cincinnati, OH
- 2002 - present Private Investor, start-up and growth companies (~100 rounds, 38 companies, with 14 exits including 6 losses, 8 profits)
- 2002 - present Board member of eight (8) start-up and growth companies
- 2003 - 2004 Advisory Board, Emerging Concepts, Inc., Cincinnati, OH
- 2003 - present Founding Chairman and Member, Maine Angels
- 2004 - present (Founding) Member, Angel Capital Association
- 2007 - 2013 Member, Public Policy Committee, Angel Capital Association
- 2007 - 2018 Member, Alliance of Angels, Seattle, WA
- 2008 - 2012 Trustee, Maine School for Science and Mathematics, Limestone, ME
- 2009 - 2013 Member Advocacy (Chair), Strategy and Education Committees, National Association of Seed and Venture Funds
- 2012 - 2013 Founding Board and Executive Committee Member, Crowdfunding Intermediary Regulatory Advocates
- 2012 - 2014 Founding Board Member and President, Crowdfunding Professional Association
- 2016 - present Member, European Business Angels Network
- 2017 - 2020 Board Member, World Business Angels Investment Forum
- 2018 Special Recognition Award, European Business Angels Network
- 2018 - present Member, Angel Syndication Network
- 2018 - present Member, Sophia Business Angels
- 2019 - present Member, Keiretsu Forum
- 2019 - present Participant, InvestEU

STUDENTS:

- 1983 - 2010 13 Post-Doctoral (Ph.D. or M.D.) Fellows
- 1983 - 2010 12 Graduate students

1983 - 2010 22 College students
1983 - 1992 10 High School students

COMMUNITY ACTIVITIES:

1972 - 1978 Mass. Army National Guard, Boston, MA (honorably discharged as 1LT)
1986 - 1992 Warrant Committee, Town of Bar Harbor, ME
1994 - present Aviation industry and FAA-sponsored safety programs (Airline Transport Pilot; Certificated Flight Instructor; Master CFI; FAA Aviation Safety Counselor, Pilot Examiner Designee)
2005 - present Ballroom Dance Instructor
2017 - present Founder and Chair, Bar Harbor Residents Association

SUPPORT RAISED:

1982 - present Participant in obtaining over \$500,000,000 in Research, Program Project, Core, Training, Corporate, etc., funding

ACADEMIC INTERESTS:

Lymphocyte developmental biology
Autoimmunity
Genetics of carcinogenesis
Immunodeficiency and infectious disease
Genetic and Immuno-toxicology
Ecogenetics
Gene segregation, epistasis and developmental/reproductive defects
Mutation, speciation and evolution
Complex systems operating at multiple hierarchical levels
Social and business organization, innovation and evolution
Management of research and education
Ethical issues and social implications of scientific research
Interface between Science and Religion

BUSINESS INTERESTS

Innovation
Entrepreneurship
Translation of research to commercial application
Financing of early-stage enterprises
Organizational Governance, Ethics and Responsibility

PUBLICATIONS:

Sidman CL, Unanue ER. Development of B lymphocytes. I. Cell populations and a critical event during ontogeny. *J Immunol* 1975; 114:1730-5.

Sidman CL, Unanue ER. Receptor-mediated inactivation of early B lymphocytes. *Nature* 1975; 257:149-51.

Unanue ER, Ault KA, Schreiner GF, Sidman CL. The cycle of ligand-induced changes in B cells - functional relationships, p.63-372. In: M Seligmann, JL Preud'homme, FM Kourilsky (eds), *Membrane Receptors of Lymphocytes*. North-Holland American Elsevier Publ. Co., Amsterdam, New York, 1975.

Sidman CL, Unanue ER. Control of B-lymphocyte function. I. Inactivation of mitogenesis by interactions with surface immunoglobulin and Fc-receptor molecules. *J Exp Med* 1976; 144:882-96.

Fram RJ, Sidman CL, Unanue ER. Genetic control of ligand-induced events in B lymphocytes. *J Immunol* 1976; 117:1456-63.

Sidman CL, Unanue ER. Control of proliferation and differentiation in B lymphocytes by anti-Ig antibodies and a serum-derived cofactor. *Proc Natl Acad Sci USA* 1978; 75:2401-5.

Sidman CL, Unanue ER. Proliferative response to anti-IgM antibodies of various B lymphocyte subpopulations isolated by cell sorting. *J Immunol* 1978; 121:2129-36.

Sidman CL, Shultz LD, Unanue ER. The mouse mutant "motheaten":. I. Development of lymphocyte populations. *J Immunol* 1978; 121:2392-8.

Sidman CL, Shultz LD, Unanue ER. The mouse mutant "motheaten":. II. Functional studies of the immune system. *J Immunol* 1978; 121:2399-404.

Shultz LD, Sidman CL, Unanue ER. Immunologic dysfunction in motheaten mice: immunodeficiency, autoimmunity and hyperimmunoglobulinemia in short-lived mutant, p.260-269. In: ME Gershwin, EL Cooper (eds), *Animal Models of Comparative and Developmental Aspects of Immunity and Disease*. Pergamon Press, New York. 1978.

Sidman CL, Unanue ER. Requirements for mitogenic stimulation of murine B cells by soluble anti-IgM antibodies. *J Immunol* 1979; 122:406-13.

Sidman CL, Unanue ER. Function of B lymphocytes at various stages of development, p.85-104. In: G Siskind (ed), *The Irwin Strasburger Memorial Seminar on Immunology - Developmental Immunobiology*. Grune & Stratton, New York, 1979.

Berek C, Schreier MH, Sidman CL, Jatton JC, Kocher HP, Cosenza H. Phosphorylcholine-binding hybridoma proteins of normal and idiotypically suppressed BALB/c mice. I. Characterization and idiotypic analysis. *Eur J Immunol* 1980; 10:258-63.

Sidman CL, Bercovici T, Gitler C. Membrane insertion of lymphocyte surface molecules. *Mol Immunol* 1980; 17:1575-83.

Sidman CL. Two-dimensional gel electrophoresis, p.57-74. In: B Pernis, I. Lefkovitz (eds), *Immunological Methods*, Vol. II. Academic Press, New York. 1981.

Sidman CL. Biochemical aspects of B lymphocyte activation, p.287-296. In: J Lissowski (ed), *Cell Surface Receptors in Immune Mechanisms*. Polish Academy of Sciences. *Arch Immunol Therap Exper* 1981; 29:287-96.

Sidman CL. B lymphocyte differentiation and the control of Mu chain expression. *Cell* 1981; 23:379-89.

Sidman, CL. Membrane Biology and the B lymphocyte, p. 238-244. In: I Lefkovitz, C Steinberg (eds), *The Immune System - A Festschrift in Honor of Niels Kaj Jerne on the Occasion of his Seventieth Birthday*. S Karger, Basel. 1981.

Maki R, Roeder W, Traunecker A, Sidman C, Wabl M, Raschke W, Tonegawa S. Roles of DNA rearrangement and alternative RNA processing in the expression of immunoglobulin delta genes. *Cell* 1981; 24:353-65.

Sidman CL. Lymphocyte surface receptors and albumin. *J Immunol* 1981; 127:1454-8.

Sidman CL. Differing requirements for glycosylation in the secretion of related glycoproteins is determined neither by the producing cell nor by the relative number of oligosaccharide chains. *J Biol Chem* 1981; 256:9374-67.

Sidman CL, Potash MJ, Kohler G. Roles of protein and carbohydrate in glycoprotein processing and secretion: studies using mutants expressing altered IgM Mu chains. *J Biol Chem* 1981; 256:13180-7.

Julius MH, von Boehmer H, Sidman CL. Dissociation of two signals required for activation of resting B cells. *Proc Natl Acad Sci* 1982; 79:1989-93.

Paige CJ, Schreier MH, Sidman CL. Mediators from cloned T helper cell lines affect immunoglobulin expression by B cells. *Proc Natl Acad Sci* 1982; 79:4756-60.

Sidman CL, Paige CJ, Schreier MH. Differentiation of B cell tumors by products of monoclonal T cell immune reactions, p. 413-417. In: E Vitetta, CF Fox (eds), *B and T Cell Tumors: Biological and Clinical Aspects*. Academic Press, New York. 1982.

Julius MH, Chiller JM, Sidman CL. Major histocompatibility complex-restricted cellular interactions determining B cell activation. *Eur J Immunol* 1982; 12:627-33.

Sidman CL, Forni L, Kohler G, Langhorne J, Lindahl KF. A monoclonal antibody (B14-2-14) against a new differentiation antigen of thymocytes. *Eur J Immunol* 1983; 13:481-8.

Schreier MH, Tees R, Paige CJ, Sidman CL. Clonal populations of helper T cells and their interaction with macrophages and B cells. *Prog Immunol* 1983; 5:767-77.

Sidman CL, Paige CJ, Schreier MH. B cell maturation factor (BMF): a lymphokine or family of lymphokines promoting the maturation of B lymphocytes. *J Immunol* 1984; 132:209-22.

Sidman CL, Marshall JD. B cell maturation factor: effects on various cell populations. *J Immunol* 1984; 132:845-50.

Sidman CL, Marshall JD, Shultz LD, Gray PW, Johnson HM. Immune interferon (IFN-g) is one of several direct B cell-maturing lymphokines. *Nature* 1984; 309:801-4.

Farr AG, Sidman CL. Reduced expression of Ia antigens by thymic epithelial cells of aged mice. *J Immunol* 1984; 133:98-103.

Shultz LD, Coman DR, Bailey CL, Beamer WG, Sidman CL. "Viable motheaten", a new allele at the motheaten locus. I. Pathology. *Am J Pathol* 1984; 116:179-92.

Sidman CL, Marshall JD, Masiello NC, Roths JB, Shultz LD. Novel B-cell maturation factor from spontaneously autoimmune viable motheaten mice. *Proc Natl Acad Sci USA* 1984; 81:7199-202.

Sidman CL, Paige CJ, Schreier MH. B cell maturation factors. *Lymphokines* 1985; 10:187-200.

Paige CJ, Schreier MH, Sidman CL, Ruddle NH. Influence of T cell factors on murine B cell development, p. 93-107. In: H von Boehmer, W Haas (eds), *T Cell Clones*. Elsevier, North Holland, 1985.

Sidman CL, Shultz LD, Evans R. A serum-derived molecule from autoimmune viable motheaten mice potentiates the action of a B cell maturation factor. *J Immunol* 1985; 135:870-2.

Sidman CL, Sahr KE, Sherris DI. Lymphokines affecting B cell maturation. pp. 151-7. In: Singhal KS, Delovitch TL, eds. *Mediators of Immune Regulation and Immunotherapy*. Elsevier, NY. 1986.

Sherris DI, Sidman CL. Distinction of B cell maturation factors from lymphokines affecting B cell growth and viability. *J Immunol* 1986; 136:994-8.

Sidman CL, Shultz LD, Hardy RR, Hayakawa K, Herzenberg LA. Production of immunoglobulin isotypes by Ly-1(+) B cells in viable motheaten and normal mice. *Science* 1986; 232:1423-5.

Sidman CL. Genes affecting the production or action of B cell-active lymphokines. *Curr Top Microbiol Immunol* 1986; 132:121-6.

Sidman CL, Marshall JD, Beamer WG, Nadeau JH, Unanue ER. Two loci affecting B cell responses to B cell maturation factors. *J Exp Med* 1986; 163:116-28.

Nadeau JH, Berger FG, Kelly KA, Pitha-Rowe PM, Sidman CL, Worrall N. Rearrangement of loci located on homologous chromosomal segments in mouse and man: The location of alpha- and

beta-interferon, alpha-1 acid glycoprotein-1 and -2, and aminolevulinate dehydratase on mouse chromosome 4. *Genetics*, 1986; 104:1239-55.

Herzenberg LA, Stall AM, Lalor PA, Sidman CL, Moore WA, Parks DR, Herzenberg LA. The Ly-1 B cell lineage. *Immunol Rev* 1986; 93:81-102.

Shultz LD, Sidman CL. Genetically determined murine models of immunodeficiency. *Ann Rev Immunol* 1987; 5:365-403.

Shultz LD, Coman DR, Lyons BL, Sidman CL, Taylor S. Development of plasmacytoid cells with Russell bodies in autoimmune viable motheaten mice, *Am J Pathol* 1987; 127:38-50.

Sidman CL, Luther EA, Nguyen KA, Worthen SM. Increased expression of major histocompatibility complex antigens on lymphocytes from aged mice. *Proc Natl Acad Sci USA* 1987; 84:7624-8.

Sherr DH, Dorf ME, Gibson M, Sidman CL. Ly-1 B helper cells in viable motheaten mice. *J Immunol* 1987; 139:1811-7.

Painter CJ, Monestier M, Chew A, Bona-Dimitriu A, Kasturi K, Bailey C, Scott VE, Sidman CL, Bona CA. Specificities and V genes encoding monoclonal antibodies from viable motheaten mice. *J Exp Med* 1988; 167:1137-53.

Lebrun P, Sidman CL, Spiegelberg HL. IgE formation and Fc receptor-positive lymphocytes in normal, immunodeficient, and auto-immune mice infected with *nippostrongylus brasiliensis*. *J Immunol* 1988; 141:249-57.

Sidman CL, Marshall JD, Harris AW. Genetic studies on Em-myc transgenic mice. *Curr Top Microbiol Immunol* 1988; 141:94-9.

Sidman CL, Marshall JD, Allen RD. The "viable motheaten" mutation reveals a gene critical to the development of both B and T lymphocytes. *Proc Natl Acad Sci USA* 1989; 86:6279-82.

Sidman CL. Use of two-dimensional electrophoresis in genetic analysis. In: Endler AT, Hanash S, eds, *Two-Dimensional Electrophoresis*. VCH Publishers, Weinheim. 1989:99-103.

Butler L, Browne C, Layman N, Riedl P, Sidman C. In vivo effects of recombinant interleukin 2 in immunodeficiency states: Role of asialo-GM-1 positive cells. In: Groupman J, Evans C, Golde D, eds, *Mechanisms of Action and Therapeutic Applications of Biologicals in Cancer and Immune Deficiency Disorders*. AR Liss, NY. 1989. pp.187-201.

Allen RD, Marshall JD, Roths JB, Sidman CL. Bone marrow transplantation from mutant *lpr/lpr* mice: Functional abnormalities rather than alloantigenic differences appear to determine the development of a GVH-like syndrome. *Eur J Immunol* 1990; 20:2057-66.

Roths JB, Marshall JD, Allen RD, Carlson GA, Sidman CL. Spontaneous *Pneumocystis carinii* pneumonia in immunodeficient mutant *scid* mice: natural history and pathobiology. *Am J Pathol* 1990; 136:1173-86.

Allen RD, Marshall JD, Roths JB, Sidman CL. Immunodeficiency after transplantation of alloantigen matched bone marrow from an immunoregulatory mutant. *Transplantation* 1990; 50:516-8.

Freitas AA, Sidman CL. Vh gene family repertoires of "viable motheaten" (mev) mice. *Eur J Immunol* 1990; 20:1033-37.

Allen RD, Marshall JD, Roths JB, Sidman CL. Differences defined by bone marrow transplantation suggest that lpr and gld are mutations of genes encoding an interacting pair of molecules. *J Exp Med* 1990; 172:1367-75.

Kasturi KN, Mayer R, Bona CA, Scott VE, Sidman CL. Germline V genes encode viable motheaten mouse autoantibodies against thymocytes and red blood cells. *J Immunol* 1990; 145:2304-11.

Pilcher JB, Tsang VCW, Zhou W, McGuire J, Black CM, Sidman CL. Optimization of binding capacity and specificity of protein G on various solid matrices for IgG (human, goat, and mouse) with comparison to protein A. *J Immunol Meth* 1991; 136:279-86.

Weber C, Shaffer DJ, Sidman CL. Unexpected behavior of H-2Kb mutant DNAs in denaturing gradient gel electrophoresis. *Nucl Acids Res* 1991; 19:3331-5.

Prasad VS, Sidman CL. Cell cycle analysis and DNA aneuploidy in autoimmune mice homozygous for the lpr and gld mutations. *J Immunol* 1991; 147:4200-6.

Sidman CL, Marshall JD, von Boehmer H. Transgenic T cell receptor interactions in the lymphoproliferative and autoimmune syndromes of lpr and gld mutant mice. *Eur J Immunol* 1992; 22:499-504.

Roths JB, Sidman CL. Both immunity and hyper-responsiveness to *Pneumocystis carinii* result from transfer of CD4+ but not CD8+ T cells into "severe combined immunodeficiency" (scid) mice. *J Clin Inv* 1992; 90:673-8.

Barthold SW, Sidman CL, Smith AL. Lyme borreliosis in genetically resistant and susceptible mice with severe combined immunodeficiency. *Am J Trop Med Hyg* 1992; 47:605-13.

Shull MM, Ormsby I, Kier AB, Pawlowski S, Diebold RJ, Yin M, Allen RD, Sidman CL, Proetzel G, Calvin D, Annunziata N, Doetschman T. Targeted disruption of the murine transforming growth factor-b1 gene results in multifocal inflammatory disease. *Nature* 1992; 359:693-9.

Sidman CL, Denial TM, Marshall JD, Roths JB. Multiple mechanisms of tumorigenesis in Em-myc transgenic mice. *Canc Res* 1993; 53:1665-9.

Roths JB, Sidman CL. Single and combined antibody and cell-mediated immune therapy of *Pneumocystis carinii* pneumonia in immunodeficient scid mice. *Inf Imm* 1993; 61:1641-9.

Allen RD, Staley TA, Sidman CL. Differential cytokine expression in acute and chronic murine graft-versus-host-disease (GVHD). *Eur J Immunol* 1993; 23:333-7.

Sidman CL, Shaffer DJ, Jacobsen K, Vargas SR, Osmond DG. Cell populations during tumorigenesis in Em-myc transgenic mice. *Leukemia* 1993; 7:887-95.

Roths JB, Smith AL, Sidman CL. Lethal exacerbation of *Pneumocystis pneumonia* (PCP) in scid mice after infection by *Pneumonia Virus of Mice* (PVM). *J Exp Med* 1993; 177:1193-8.

Lynes MA, Tibbetts DJ, Swenson LM, Sidman CL. Dynamic associations of CD45 and Thy-1 on plasma membranes of C3H-gld/gld and C3H-lpr/lpr mice. I. Potential effects on proliferation and phosphatase activity. *Cell Immunol* 1993; 151:65-79.

Bray MV, Barthold SW, Sidman CL, Roth JB, Smith AS. Exacerbation of *Pneumocystis carinii* pneumonia in immunodeficient scid mice by concurrent infection with a *Pneumovirus*. *Inf Imm* 1993; 61:1586-8.

Chang C-Y, Smith DR, Prasad VS, Sidman CL, Nebert DW, Puga A. Ten nucleotide differences, five of which cause amino acid changes, are associated with the Ah receptor locus polymorphism of C57BL/6 and DBA/2 mice. *Pharmacogen* 1993; 3:312-21.

Sidman CL, Roth JB. New Animal Models for *Pneumocystis carinii* Research: Immunodeficient Mice. In: Walzer PD, ed, *Pneumocystis carinii* Pneumonia. Marcel Dekker, NY. 1994. pp.223-35.

Sidman CL, Shaffer DJ. Large-scale genomic comparison using two-dimensional DNA gels. *Genomics* 1994; 23:15-22.

Ettinger R, Wang J, Bossu P, Papas K, Sidman CL, Abbas AK, Marshak-Rothstein A. Functional distinctions between MRL-lpr and MRL-gld lymphocytes: Normal cells reverse the gld but not lpr immunoregulatory defect. *J Immunol* 1994; 152:1557-68.

Jacobsen KA, Prasad VS, Sidman CL, Osmond DG. Apoptosis and macrophage-mediated deletion of precursor B cells in the bone marrow of Em-myc transgenic mice. *Blood* 1994; 84:2784-94.

Keely S, Hyun-Joo P, Baughman R, Sidman C, Sunkin SM, Stringer JR, Stringer SL. *Pneumocystis* species inferred from analysis of multiple genes. *J Euk Microbiol* 1994; 41:94S.

Gillette-Ferguson I, Sidman CL. A specific intercellular pathway of apoptotic cell death is defective in the mature peripheral T cells of autoimmune lpr and gld mice. *Eur J Immunol* 1994; 24:1181-5.

Baker KS, Allen RD, Roth JB, Sidman CL. Kinetic and organ-specific patterns of cytokine expression in acute graft vs. host disease. *Bone Marrow Transpl* 1995; 15:595-603.

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