Stanford



# C. Garrison Fathman

Professor of Medicine (Immunology and Rheumatology), Emeritus

Medicine - Med/Immunology & Rheumatology

NIH Biosketch available Online  Curriculum Vitae available Online


**CONTACT INFORMATION**

- **Alternate Contact**

  John Golding - Administrative Associate

  **Email** john.golding@stanford.edu

  **Tel** 650-736-9097


## Bio

### BIO

Dr. Fathman is an example of a clinician scientist who has developed a clear vision for implementation of translational research. He has over 300 publications, many of them in the top peer-reviewed journals including Science, Nature, Cell, Journal of Experimental Medicine, JCI, Immunity, Nature Medicine and Nature Immunology. Among Dr. Fathman's seminal contributions to his field, is the initial cloning of CD4 T lymphocytes while he was a member of the Basel Institute for Immunology. The use of soft agar seeding of activated cells had allowed the cloning of what are now called hybridomas and drove the field monoclonal antibody production. Using this same technology, Dr. Fathman was able to clone allo-reactive T lymphocytes. Dr. Fathman left Basel and became an Associate Professor of Immunology at Mayo Medical School in 1977. There, along with one of his postdoctoral fellows, he adapted the soft agar cloning technology to clone antigen specific CD4 T cells for the first time. The ability to study single T cell specificities allowed rapid advancement in understanding the components of the ternary complex for T cell activation and led Dr. Fathman to identify trans-complementing MHC Class 2 products used in antigen presentation before the biochemical two chain nature of MHC Class 2 products was described. Shortly thereafter, he was the first to identify "idiotypic structures" on cloned CD4 T cells predating the identification of the T cell receptor for antigen by molecular biological techniques. Dr. Fathman moved from Mayo to Stanford in 1981 and continued his studies on T cell clones, initially identifying the "shared epitope" on HLA Class 2 molecules in RA patients. As a new faculty member at Stanford, he expanded his studies to examine animal models of autoimmunity. The initial observation that led to his studies on the use of monoclonal antibodies to treat animal models of autoimmunity came from the observation that immune unresponsiveness could be induced in mice by the use of anti-CD4 antibodies at the time of antigen immunization. Subsequently he was the first to use anti-CD4 antibodies to block allograft transplant rejection and was the first to use peptides of an autoantigen (myelin basic peptide), to induce a state of "anergy" in mice to ameliorate disease. Initially, anti-CD4 antibody was used to block progression to diabetes in NOD mice. Many subsequent publications were linked to his NOD colony including several seminal observations on pathophysiology, immunotherapy, and gene expression. One major finding was the identification of a gene, DEAF-1, expressed in pancreatic lymph nodes whose non-canonical splice variant was involved in defective non-thymic mechanisms for inducing or maintaining peripheral tolerance in NOD and in human T1D. More recently he has used gene expression studies of peripheral blood cells from type one diabetes (T1D) patients and relatives to demonstrate a gene expression signature of risk of disease and of disease progression in T1D. He is currently developing a novel therapeutic approach to the treatment of autoimmune and allergic diseases by targeting the endogenous regulatory T cell to "turn up" its activity to prevent or treat these inflammatory diseases.

## ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Med/Immunology & Rheumatology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

## ADMINISTRATIVE APPOINTMENTS

- President, Federation of Clinical Immunology Societies (FOCIS), (2002- present)
- Associate Director, ITI Institute Stanford, (2008- present)
- President, Clinical Immunology Society, (2000-2001)
- Director, Center for Clinical Immunology at Stanford (CCIS), (1993- present)
- Division Chief, Division of Immunology and Rheumatology, (1997-2014)
- Associate Editor, Annual Review of Immunology, (1981-2005)
- Council, American Society for Clinical Investigation, (1984-1987)
- Council, Midwinter Conference of Immunologists, (1981-1986)

## HONORS AND AWARDS

- Member and elected Council member, American Society of Clinical Investigation (1984-1987)
- Member, American Association of Physicians (1990-present)
- Naomi M. Kanof Award for Distinguished Achievement in Clinical Investigation, Society for Investigative Dermatology (1997)
- Alumni Achievement Award, Washington University Medical School (1999)
- President's Award, Clinical Immunology Society (2006)
- Master, American College of Rheumatology (2007)
- Member, Council member, Henry Kunkel Society (2007-2010)
- Founder's Award, Federation of Clinical immunology Societies (2010)
- Division Teaching Award, Stanford University School of Medicine, Department of Medicine (2011)
- Mayo Clinic Distinguished Alumnus, Mayo Clinic (2015)
- Commencement Address, Washington University Medical School (2016)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Editorial Board, Transplantation (1979 - 1984)
- Editorial Board, Journal of Molecular and Cellular Immunology (1984 - 1988)
- Editorial Board, Annales de l'Institut Pasteur Immunologie (1985 - 1989)
- Editorial Board, Journal of Clinical Investigation (1985 - 1990)
- Section Chief, Clinical Immunology, Journal of Immunology (1986 - 1990)
- Member, AAI (1987 - 2014)
- Member, Council, President, Clinical Immunology Society (1990 - present)
- member, ACR (1990 - present)
- Director, Center for Clinical Immunology,Stanford (1995 - present)
- Editorial Board, The Immunologist (1996 - 1999)
- Associate Editor, Clinical Immunology and Immunopathology (1998 - 2003)

- Editorial Board, Journal of Clinical Immunology (1998 - 2003)
- Associate Editor, Annual Review of Immunology (1998 - 2005)
- Member, ADA (2002 - present)
- Advisory Board Member, Nature Clinical Practice Rheumatology (2005 - present)
- Associate Director, Institute for Immunology, Transplantation and Infection, Stanford (2007 - present)
- Scientific Advisory Committee, Lupus Research Alliance (2016 - present)

### PROFESSIONAL EDUCATION

- B.A., Univ. Kentucky, Lexington , Pre-Med (1964)
- M.D., Washington Univ., St. Louis , Medicine (1969)

### LINKS

- My lab site: http://fathmanlab.stanford.edu/

## Research & Scholarship

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory of molecular and cellular immunology is interested in mechanisms of T cell anergy and the pathophysiology and immunotherapy of preclinical animal models of autoimmune disease.

I. T Cell Anergy: We have identified a ubiquitin E3 ligase (GRAIL) that seems to be central to the control of regulatory T cell (Treg) function. This regulation is controlled by inhibition of the desensitization of the Treg IL-2 receptor allowing prolonged pStat5 transcription of Treg centric genes. Two deubiquiting enzymes, USP8 and OTUB1, play contrasting roles in maintaining GRAIL stability and thus inhibition of IL-2R desensitization.

II. Gene Therapy: We have demonstrated that the local delivery of anti-inflammatory proteins via adoptive cellular gene therapy using syngeneic dendritic cells (DCs) transduced to express immunoregulatory proteins, in three murine models of autoimmunity (RA, MS and T1D), provide therapeutic effect both in the prevention of disease onset and in therapy of established disease.

III. Gene expression studies in autoimmunity: The major emphasis placed on disease associated genetic mutations or polymorphisms to understand the genetics of T1D has failed to advance either understanding of T1D pathogenesis or to identify therapeutic targets. Recent studies from my lab have demonstrated that tissue- and disease-specific changes in mRNA expression, rather than DNA variants, may underlie the progression of T1D. By combining the expertise of the lab in T1D research with established preclinical models and patient samples/tissues from the Network for Pancreatic Organ Donors with Diabetes, nPOD (http://www.jdrfnpod.org/), as well as from TrialNet, my lab has both demonstrated a potential defect in peripheral tolerance in NOD mice that has homologies in T1D patients and has identified a signature of predisposition to developing T1D (risk) as well as a signature of T1D disease progression.

iv. Development of new therapeutics to treat autoimmune and allergic diseases. Using the knowledge that Treg IL-2R desensitization is important in Treg function, we have developed a screening system to identify lead candidates that can inhibit Il-2R desensitization to be used in concert with low dose IL-2 therapy to treat or prevent autoimmune and allergic diseases.

## Teaching

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Immunology (PhD Program)
- Immunology/Rheumatology (Fellowship Program)
- Medicine (Masters Program)

# Publications

## PUBLICATIONS

- **Autoimmune disease: genetic susceptibility, environmental triggers, and immune dysregulation. Where can we develop therapies?** *Frontiers in immunology*
  Kumar, M., Yip, L., Wang, F., Marty, S. E., Fathman, C. G.
  2025; 16: 1626082

- **Identification of Novel Disease-Relevant Genes and Pathways in the Pathogenesis of Type 1 Diabetes: A Potential Defect in Pancreatic Iron Homeostasis** *DIABETES*
  Yip, L., Alkhataybeh, R., Taylor, C., Fuhlbrigge, R., Fathman, C.
  2022; 71 (7): 1490-1507

- **How GRAIL controls Treg function to maintain self-tolerance.** *Frontiers in immunology*
  Fathman, C. G., Yip, L., Gomez-Martin, D., Yu, M., Seroogy, C. M., Hurt, C. R., Lin, J. T., Jenks, J. A., Nadeau, K. C., Soares, L.
  2022; 13: 1046631

- **Gene Expression Analysis of the Pre-Diabetic Pancreas to Identify Pathogenic Mechanisms and Biomarkers of Type 1 Diabetes.** *Frontiers in endocrinology*
  Yip, L., Fuhlbrigge, R., Alkhataybeh, R., Fathman, C. G.
  2020; 11: 609271

- **Identical and Nonidentical Twins: Risk and Factors Involved in Development of Islet Autoimmunity and Type 1 Diabetes** *DIABETES CARE*
  Triolo, T. M., Fouts, A., Pyle, L., Yu, L., Gottlieb, P. A., Steck, A. K., Greenbaum, C. J., Atkinson, M., Baidal, D., Battaglia, M., Becker, D., Bingley, P., Bosi, et al
  2019; 42 (2): 192–99

- **Low-Dose Anti-Thymocyte Globulin (ATG) Preserves -Cell Function and Improves HbA(1c) in New-Onset Type 1 Diabetes** *DIABETES CARE*
  Haller, M. J., Schatz, D. A., Skyler, J. S., Krischer, J. P., Bundy, B. N., Miller, J. L., Atkinson, M. A., Becker, D. J., Baidal, D., DiMeglio, L. A., Gitelman, S. E., Goland, R., Gottlieb, et al
  2018; 41 (9): 1917–25

- **Identification of a common immune regulatory pathway induced by small heat shock proteins, amyloid fibrils, and nicotine** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Rothbard, J. B., Rothbard, J. J., Soares, L., Fathman, C., Steinman, L.
  2018; 115 (27): 7081–86

- **Identification of a common immune regulatory pathway induced by small heat shock proteins, amyloid fibrils, and nicotine.** *Proceedings of the National Academy of Sciences of the United States of America*
  Rothbard, J. B., Rothbard, J. J., Soares, L., Fathman, C. G., Steinman, L.
  2018

- **Effect of Oral Insulin on Prevention of Diabetes in Relatives of Patients With Type 1 Diabetes A Randomized Clinical Trial** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Greenbaum, C., Atkinson, M., Baidal, D., Battaglia, M., Bingley, P., Bosi, E., Buckner, J., Clements, M., Colman, P., DiMeglio, L., Evans-Molina, C., Gitelman, S., Goland, et al
  2017; 318 (19): 1891–1902

- **Impact of blood collection and processing on peripheral blood gene expression profiling in type 1 diabetes** *BMC GENOMICS*
  Yip, L., Fuhlbrigge, R., Atkinson, M. A., Fathman, C.
  2017; 18: 636

- **Selective expansion of human regulatory T cells in nasal polyps, and not adjacent tissue microenvironments, in individual patients exposed to steroids.** *Clinical immunology*
  Edward, J. A., Sanyal, M., Le, W., Soudry, E., Ramakrishnan, V. R., Bravo, D. T., Nguyen, A. L., Zarabanda, D., Kingdom, T. T., Hwang, P. H., Garrison Fathman, C., Nayak, J. V.
  2017; 179: 66-76

- **Autoantibody-Positive Healthy Individuals Display Unique Immune Profiles That May Regulate Autoimmunity.** *Arthritis & rheumatology*
  Slight-Webb, S., Lu, R., Ritterhouse, L. L., Munroe, M. E., Maecker, H. T., Fathman, C. G., Utz, P. J., Merrill, J. T., Guthridge, J. M., James, J. A.

2016; 68 (10): 2492-2502

- **Expression-Based Genome-Wide Association Study Links Vitamin D-Binding Protein With Autoantigenicity in Type 1 Diabetes** *DIABETES*
  Kodama, K., Zhao, Z., Toda, k., Yip, L., Fuhlbrigge, R., Miao, D., Fathman, C. G., Yamada, S., Butte, A. J., Yu, L.
  2016; 65 (5): 1341-1349
- **Concise Review: Cell-Based Therapies and Other Non-Traditional Approaches for Type 1 Diabetes** *STEM CELLS*
  Creusot, R. J., Battaglia, M., Roncarolo, M., Fathman, C. G.
  2016; 34 (4): 809-819
- **Amyloid fibrils activate B-1a lymphocytes to ameliorate inflammatory brain disease** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Kurnellas, M. P., Ghosn, E. E., Schartner, J. M., Baker, J., Rothbard, J. J., Negrin, R. S., Herzenberg, L. A., Fathman, C. G., Steinman, L., Rothbard, J. B.
  2015; 112 (49): 15016-15023
- **Large-Scale and Comprehensive Immune Profiling and Functional Analysis of Normal Human Aging** *PLOS ONE*
  Whiting, C. C., Siebert, J., Newman, A. M., Du, H., Alizadeh, A. A., Goronzy, J., Weyand, C. M., Krishnan, E., Fathman, C. G., Maecker, H. T.
  2015; 10 (7)
- **Virtual Time-Course Analysis of Genome-Wide Gene-Expression Profile in Pancreatic Lymph Nodes from Human Prediabetic Subjects**
  Kodama, K., Yip, L., Fuhlbrigge, R., Butte, A. J., Fathman, C.
  AMER DIABETES ASSOC.2015: A61
- **Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy** *ARTHRITIS RESEARCH & THERAPY*
  Nair, N., Mei, H. E., Chen, S., Hale, M., Nolan, G. P., Maecker, H. T., Genovese, M., Fathman, C. G., Whiting, C. C.
  2015; 17
- **Autoantibody-positive healthy individuals display unique immune profiles that regulate autoimmunity**
  Slight-Webb, S., Lu, R., Ritterhouse, L., Maecker, H., Fathman, C., Merrill, J., Guthridge, J., James, J.
  AMER ASSOC IMMUNOLOGISTS.2015
- **A Novel Transcription Factor, T-bet, Directs Th1 Lineage Commitment** *JOURNAL OF IMMUNOLOGY*
  Szabo, S. J., Kim, S. T., Costa, G. L., Zhang, X., Fathman, C. G., Glimcher, L. H.
  2015; 194 (7): 2961-2975
- **Inflammation and Hyperglycemia Mediate Deaf1 Splicing in the Pancreatic Lymph Nodes via Distinct Pathways During Type 1 Diabetes.** *Diabetes*
  Yip, L., Fuhlbrigge, R., Taylor, C., Creusot, R. J., Nishikawa-Matsumura, T., Whiting, C. C., Schartner, J. M., Akter, R., von Herrath, M., Fathman, C. G.
  2015; 64 (2): 604-617
- **Large-Scale and Comprehensive Immune Profiling and Functional Analysis of Normal Human Aging.** *PloS one*
  Whiting, C. C., Siebert, J., Newman, A. M., Du, H., Alizadeh, A. A., Goronzy, J., Weyand, C. M., Krishnan, E., Fathman, C. G., Maecker, H. T.
  2015; 10 (7)
- **Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy.** *Arthritis research & therapy*
  Nair, N., Mei, H. E., Chen, S., Hale, M., Nolan, G. P., Maecker, H. T., Genovese, M., Fathman, C. G., Whiting, C. C.
  2015; 17: 127-?
- **Mechanisms of action of therapeutic amyloidogenic hexapeptides in amelioration of inflammatory brain disease.** *journal of experimental medicine*
  Kurnellas, M. P., Schartner, J. M., Fathman, C. G., Jagger, A., Steinman, L., Rothbard, J. B.
  2014; 211 (9): 1847-1856
- **Poly-l-Arginine Topical Lotion Tested in a Mouse Model for Frostbite Injury.** *Wilderness & environmental medicine*
  Auerbach, L. J., DeClerk, B. K., Garrison Fathman, C., Gurtner, G. C., Auerbach, P. S.
  2014; 25 (2): 160-165

- **Type 1 diabetes in mice and men: gene expression profiling to investigate disease pathogenesis.** *Immunologic research*
  Yip, L., Fathman, C. G.
  2014; 58 (2-3): 340-350

- **Vitamin D Deficiency in a Multiethnic Healthy Control Cohort and Altered Immune Response in Vitamin D Deficient European-American Healthy Controls** *PLOS ONE*
  Ritterhouse, L. L., Lu, R., Shah, H. B., Robertson, J. M., Fife, D. A., Maecker, H. T., Du, H., Fathman, C. G., Chakravarty, E. F., Scofield, R. H., Kamen, D. L., Guthridge, J. M., James, et al
  2014; 9 (4)

- **Vitamin d deficiency in a multiethnic healthy control cohort and altered immune response in vitamin D deficient European-American healthy controls.** *PloS one*
  Ritterhouse, L. L., Lu, R., Shah, H. B., Robertson, J. M., Fife, D. A., Maecker, H. T., Du, H., Fathman, C. G., Chakravarty, E. F., Scofield, R. H., Kamen, D. L., Guthridge, J. M., James, et al
  2014; 9 (4)

- **It's Time to Bring Dendritic Cell Therapy to Type 1 Diabetes** *DIABETES*
  Creusot, R. J., Giannoukakis, N., Trucco, M., Clare-Salzler, M. J., Fathman, C.
  2014; 63 (1): 20–30

- **Diminished Adenosine A1 Receptor Expression in Pancreatic a-Cells May Contribute to the Pathology of Type 1 Diabetes.** *Diabetes*
  Yip, L., Taylor, C., Whiting, C. C., Fathman, C. G.
  2013; 62 (12): 4208-4219

- **Effectiveness of Early Intensive Therapy on beta-Cell Preservation in Type 1 Diabetes** *DIABETES CARE*
  Buckingham, B., Beck, R. W., Ruedy, K. J., Cheng, P., Kollman, C., Weinzimer, S. A., Dimeglio, L. A., Bremer, A. A., Slover, R., Tamborlane, W. V.
  2013; 36 (12): 4030-4035

- **Interleukin-1 antagonism in type 1 diabetes of recent onset: two multicentre, randomised, double-blind, placebo-controlled trials** *LANCET*
  Moran, A., Bundy, B., Becker, D. J., Dimeglio, L. A., Gitelman, S. E., Goland, R., Greenbaum, C. J., Herold, K. C., Marks, J. B., Raskin, P., Sanda, S., Schatz, D., Wherrett, et al
  2013; 381 (9881): 1905-1915

- **The Effects of Inpatient Hybrid Closed-Loop Therapy Initiated Within 1 Week of Type 1 Diabetes Diagnosis** *DIABETES TECHNOLOGY & THERAPEUTICS*
  Buckingham, B. A., Beck, R. W., Ruedy, K. J., Cheng, P., Kollman, C., Weinzimer, S. A., Dimeglio, L. A., Bremer, A. A., Slover, R., Cantwell, M., Tsalikian, E., Tansey, M. J., Coffey, et al
  2013; 15 (5): 401-408

- **The gene related to anergy in lymphocytes regulates stat-mediated differentiation of CD4 T cells via ubiquitination and degradation of the kinase chaperone CDC37 (P1128)**
  Schartner, J., Su, L., Fathman, C., Whiting, C.
  AMER ASSOC IMMUNOLOGISTS.2013

- **Inflammation-induced splicing of Deaf1 in the pancreatic lymph nodes during the progression of Type 1 diabetes**
  Yip, L., Creusot, R., Whiting, C., Taylor, C., Akter, R., Matsumura, T., Fathman, C.
  AMER ASSOC IMMUNOLOGISTS.2013

- **Reduced DEAF1 function during type 1 diabetes inhibits translation in lymph node stromal cells by suppressing Eif4g3.** *Journal of molecular cell biology*
  Yip, L., Creusot, R. J., Pager, C. T., Sarnow, P., Fathman, C. G.
  2013; 5 (2): 99-110

- **Redirecting cell-type specific cytokine responses with engineered interleukin-4 superkines** *NATURE CHEMICAL BIOLOGY*
  Junttila, I. S., Creusot, R. J., Moraga, I., Bates, D. L., Wong, M. T., Alonso, M. N., Suhoski, M. M., Lupardus, P., Meier-Schellersheim, M., Engleman, E. G., Utz, P. J., Fathman, C. G., Paul, et al
  2012; 8 (12): 990-998

- **New tools for classification and monitoring of autoimmune diseases** *NATURE REVIEWS RHEUMATOLOGY*
  Maecker, H. T., Lindstrom, T. M., Robinson, W. H., Utz, P. J., Hale, M., Boyd, S. D., Shen-Orr, S. S., Fathman, C. G.
  2012; 8 (6): 317-328

- **Ectopic expression and presentation of diabetogenic antigens in the lymph nodes of NOD mice**
  Creusot, R., Yip, L., Fathman, C.
  AMER ASSOC IMMUNOLOGISTS.2012

- **Exploiting a natural conformational switch to engineer an interleukin-2 'superkine'** *NATURE*
  Levin, A. M., Bates, D. L., Ring, A. M., Krieg, C., Lin, J. T., Su, L., Moraga, I., Raeber, M. E., Bowman, G. R., Novick, P., Pande, V. S., Fathman, C. G., Boyman, et al
  2012; 484 (7395): 529-U159

- **Therapeutic Effects of Systemic Administration of Chaperone alpha B-Crystallin Associated with Binding Proinflammatory Plasma Proteins** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Rothbard, J. B., Kurnellas, M. P., Brownell, S., Adams, C. M., Su, L., Axtell, R. C., Chen, R., Fathman, C. G., Robinson, W. H., Steinman, L.
  2012; 287 (13): 9708-9721

- **Differential mTOR and ERK pathway utilization by effector CD4 T cells suggests combinatorial drug therapy of arthritis** *CLINICAL IMMUNOLOGY*
  Lin, J. T., Stein, E. A., Wong, M. T., Kalpathy, K. J., Su, L. L., Utz, P. J., Robinson, W. H., Fathnnan, C. G.
  2012; 142 (2): 127-138

- **SLE patients and autoantibody-positive healthy individuals display unique cytokine profiles: shared features of inflammation as well as select features of immunosuppression in autoantibody-positive healthy individuals**
  Ritterhouse, L. L., Maecker, H. T., Fathman, C. G., Merrill, J. T., Guthridge, J. M., James, J. A.
  BIOMED CENTRAL LTD.2012

- **Vitamin D Deficient Healthy Individuals Have Decreased Activated T Cells and Altered Lymphocyte Responses to Cytokine Stimulation** *75th Annual Scientific Meeting of the American-College-of-Rheumatology/46th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals (ARHP)*
  Ritterhouse, L. L., Maecker, H. T., Du, H., Fathman, C. G., Guthridge, J., James, J. A.
  WILEY-BLACKWELL.2011: S19–S19

- **What Keeps An Autoantibody-Positive Healthy Individual Healthy?** *75th Annual Scientific Meeting of the American-College-of-Rheumatology/46th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals (ARHP)*
  Ritterhouse, L. L., Maecker, H. T., Du, H., Fathman, C. G., Merrill, J. T., Guthridge, J., James, J. A.
  WILEY-BLACKWELL.2011: S1008–S1009

- **Antigen-based therapy with glutamic acid decarboxylase (GAD) vaccine in patients with recent-onset type 1 diabetes: a randomised double-blind trial** *LANCET*
  Wherrett, D. K., Bundy, B., Becker, D. J., Dimeglio, L. A., Gitelman, S. E., Goland, R., Gottlieb, P. A., Greenbaum, C. J., Herold, K. C., Marks, J. B., Monzavi, R., Moran, A., Orban, et al
  2011; 378 (9788): 319-327

- **Co-stimulation modulation with abatacept in patients with recent-onset type 1 diabetes: a randomised, double-blind, placebo-controlled trial** *LANCET*
  Orban, T., Bundy, B., Becker, D. J., Dimeglio, L. A., Gitelman, S. E., Goland, R., Gottlieb, P. A., Greenbaum, C. J., Marks, J. B., Monzavi, R., Moran, A., Raskin, P., Rodriguez, et al
  2011; 378 (9789): 412-419

- **Engineering cell-type selective immune responses using mechanism-based designer IL-4 cytokines.**
  Creusot, R., Junttila, I., Bates, D., Moraga, I., Lupardus, P., Fathman, C., Paul, W., Garcia, K.
  AMER ASSOC IMMUNOLOGISTS.2011

- **GRAIL targets CDC37 to maintain CD4 T cell unresponsiveness**
  Whiting, C., Su, L., Lin, J., Lineberry, N., Fathman, C.
  AMER ASSOC IMMUNOLOGISTS.2011

- **Dengue-2 Structural Proteins Associate with Human Proteins to Produce a Coagulation and Innate Immune Response Biased Interactome** *BMC INFECTIOUS DISEASES*
  Folly, B. B., Weffort-Santos, A. M., Fathman, C. G., Soares, L. R.
  2011; 11

- **GRAIL: a unique mediator of CD4 T-lymphocyte unresponsiveness** *FEBS JOURNAL*

Whiting, C. C., Su, L. L., Lin, J. T., Fathman, C. G.
2011; 278 (1): 47-58

- **A Short Pulse of IL-4 Delivered by DCs Electroporated With Modified mRNA Can Both Prevent and Treat Autoimmune Diabetes in NOD Mice** *MOLECULAR THERAPY*
  Creusot, R. J., Chang, P., Healey, D. G., Tcherepanova, I. Y., Nicolette, C. A., Fathman, C. G.
  2010; 18 (12): 2112-2120

- **A model for harmonizing flow cytometry in clinical trials.** *Nature immunology*
  Maecker, H. T., McCoy, J. P., Amos, M., Elliott, J., Gaigalas, A., Wang, L., Aranda, R., Banchereau, J., Boshoff, C., Braun, J., Korin, Y., Reed, E., Cho, et al
  2010; 11 (11): 975-978

- **A model for harmonizing flow cytometry in clinical trials** *NATURE IMMUNOLOGY*
  Maecker, H. T., McCoy, J. P.
  2010; 11 (11): 975-978

- **New technologies for autoimmune disease monitoring** *CURRENT OPINION IN ENDOCRINOLOGY DIABETES AND OBESITY*
  Maecker, H. T., Nolan, G. P., Fathman, C. G.
  2010; 17 (4): 322-328

- **Inflammation-induced Changes in Deaf1 Splicing Alter Peripheral Tissue Antigen Gene Expression in the Pancreatic Lymph Node during the Pathogenesis of Type I Diabetes** *10th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
  Yip, L., Creusot, R., Su, L., Fathman, C.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2010: S72–S72

- **Targeting mTOR and MAPK Pathways to Inhibit Naive and Experienced Effector CD4 T Cells in Autoimmunity** *10th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
  Lin, J., Stein, E., Wong, M., Kalpathy, K., Su, L., Utz, P., Robinson, W., Fathman, C.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2010: S69–S69

- **Deaf1 isoforms control the expression of genes encoding peripheral tissue antigens in the pancreatic lymph nodes during type 1 diabetes** *NATURE IMMUNOLOGY*
  Yip, L., Su, L., Sheng, D., Chang, P., Atkinson, M., Czesak, M., Albert, P. R., Collier, A., Turley, S. J., Fathman, C. G., Creusot, R. J.
  2009; 10 (9): 1026-U107

- **The Transmembrane E3 Ligase GRAIL Ubiquitinates and Degrades CD83 on CD4 T Cells** *JOURNAL OF IMMUNOLOGY*
  Su, L. L., Iwai, H., Lin, J. T., Fathman, C. G.
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