The Proteolytic Environment Involved In MHC Class II-Restricted Antigen Presentation Can Be Modulated by the p41 Form of Invariant Chain
Beatrice Fineschi, Kazuyasu Sakaguchi, Ettore Appella, and Jim Miller

Mucosal IFN-γ Gene Transfer Inhibits Pulmonary Allergic Responses in Mice
Xiu-Min Li, Rajesh K. Chopra, Teh-Ying Chou, Brian H. Schofield, Marsha Wills-Karp, and Shau-Ku Huang

Impaired IL-13-Mediated Functions of Macrophages in STAT6-Deficient Mice
Kiyoshi Takeda, Masahito Kamanaka, Takashi Tanaka, Tadamitsu Kishimoto, and Shizuo Akira

IFN-γ Plays a Critical Down-Regulatory Role in the Induction and Effector Phase of Myelin Oligodendrocyte Glycoprotein-Induced Autoimmune Encephalomyelitis
David O. Willenborg, Sue Fordham, Claude C. A. Bernard, William B. Cowden, and Ian A. Ramshaw

CD30 Expression on Human CD8+ T Cells Isolated from Peripheral Blood Lymphocytes of Normal Donors
Babita Agrawal, Mark Reddish, and B. Michael Longenecker

IL-12-Induced Activation of NK and T Cells Occurs in the Absence of Immediate-Early Activation Gene Expression
Livio Azzoni, Palanisamy Kanakaraj, Olga Zatsepina, and Bice Perussia

Flanking Residues Alter Antigenicity and Immunogenicity of Multi-Unit CTL Epitopes
Cornelia C. Bergmann, Qin Yao, Chung-Kang Ho, and Simy L. Buckwold
Infusion of Anti-B7.1 (CD80) and Anti-B7.2 (CD86) Monoclonal Antibodies Inhibits Murine Graft-Versus-Host Disease Lethality In Part Via Direct Effects on CD4+ and CD8+ T Cells
Bruce R. Blazar, Arlene H. Sharpe, Patricia A. Taylor, Angela Panoskaltsis-Mortari, Gary S. Gray, Robert Korngold, and Daniel A. Vallera

Soluble Protein but not Peptide Administration Diverts the Immune Response of a Clonal CD4+ T Cell Population to the T Helper 2 Cell Pathway
Sylvie Degermann, Emanuele Pria, and Luciano Adorini

Subcellular Localization of CD80 Receptors Is Dependent on an Intact Cytoplasmic Tail and Is Required for CD28-Dependent T Cell Costimulation
Raymond T. Doty and Edward A. Clark

Naive and Effector CD4 T Cells Differ in Their Requirements for T Cell Receptor Versus Costimulatory Signals
Caroline Dubey, Michael Croft, and Susan L. Swain

Induction of Activator Protein (AP)-1 and Nuclear Factor-κB by CD28 Stimulation Involves Both Phosphatidylinositol 3-Kinase and Acidic Sphingomyelinase Signals
Christine E. Edmead, Yusuf I. Patel, Anne Wilson, George Boulougouris, Nicolas D. Hall, Steven G. Ward, and David M. Sansom

Enterotoxin Septic Shock Protection and Deficient T Helper 2 Cytokine Production in Growth Hormone Transgenic Mice
Jose A. Gonzalo, Ramon Mazuchelli, Mario Mellado, Jose M. R. Frade, Ana C. Carrera, Cayetano von Kobbe, Isabel Merida, and Carlos Martinez-A

Molecular Analysis of the Cytoplasmic Domain of CD4: Overlapping but Noncompetitive Requirement for Zck Association and Down-Regulation by Nef
Sophie Gratton, Xiao-Jian Yao, Sundararajan Venkatesan, Eric A. Cohen, and Rafik-Pierre Sékaly

Ultraviolet B Radiation Sensitizes a Murine Epidermal Dendritic Cell Line (XS52) to Undergo Apoptosis upon Antigen Presentation to T Cells
Toshiyuki Kitajima, Kiyoshi Artizumi, Paul R. Bergstresser, and Akira Takashima

Isolation from Human Placenta of the IgG Transporter, FcRn, and Localization to the Syncytiotrophoblast: Implications for Maternal-Fetal Antibody Transport
James L. Leach, Daniel D. Sedmak, Jeanne M. Osborne, Brian Rahill, Michael D. Laimore, and Clark L. Anderson

IL-10 Inhibits Lipopolysaccharide-Induced Murine B Cell Proliferation and Cross-Linking of Surface Antigen Receptors or Ligation of CD40 Restores the Response
John F. Marcelletti

Defective B Cell Development in Snell Dwarf (dw/dw) Mice Can Be Corrected by Thyroxine Treatment
Encarnacion Montecino-Rodriguez, Ross Clark, Anne Johnson, Linda Collins, and Kenneth Dorshkind
Cell Surface ADP-Ribosyltransferase Regulates Lymphocyte Function-Associated Molecule-1 (LFA-1) Function in T Cells
Eiji Nemoto, Yajing Yu, and Gunther Dennert

Peptide Sequence Requirements for the Recognition of HLA-B2705 by Specific Natural Killer Cells
Maria Peruzzi, Kenneth C. Parker, Eric O. Long, and Mauro S. Malnati

The xid Mutation Diminishes Memory B Cell Generation but Does Not Affect Somatic Hypermutation and Selection
Anna Ridderstad, G. J. V. Nossal, and David M. Tarlinton

p126 (CDw101), A Costimulatory Molecule Preferentially Expressed on Mucosal T Lymphocytes
Gary J. Russell, Christina M. Parker, Arvind Sood, Emiko Mizoguch, Ellen C. Ebert, Atul K. Bhan, and Michael B. Brenner

Herpes Simplex Virus Blocks Intracellular Transport of HLA-G in Placentally Derived Human Cells
Danny J. Schust, Ann B. Hill, and Hidde L. Ploegh

Differential Activation of the ERK, JNK, and p38 Mitogen-Activated Protein Kinases by CD40 and the B Cell Antigen Receptor
Claire L. Sutherland, Andrew W. Heath, Steven L. Pelech, Peter R. Young, and Michael R. Gold

Involvement of Peptide Antigens in the Cytotoxicity Between 70-kDa Heat Shock Cognate Protein-Like Molecule and CD3+, CD4−, CD8−, TCR-αβ− Killer T Cells

Changes in the Cytoplasmic Structure of CTLs During Target Cell Recognition and Killing
James B. Waters, Michael B. A. Oldstone, and Klaus M. Hahn

Follicular Dendritic Cell-Derived Antigen and Accessory Activity in Initiation of Memory IgG Responses In Vitro
Jiuhua Wu, Dahui Qin, Gregory F. Burton, Andras K. Szakal, and John G. Tew

Defect of Thymocyte Emigration in a T Cell Deficiency Strain (CTS) of the Mouse
Hideki Yagi, Mitsunobu Matsumoto, Masanori Nakamura, Susumu Makino, Ryuji Suzuki, Minoru Harada, and Tsunetoshi Itoh

Induction of Apoptosis by Anti-CD3ε F(ab′)2 in Antigen Receptor Transgenic Murine T Cells Activated by Specific Peptide
Xue-zhong Yu, Liqing Zhu, Jennifer E. Davis, J. Yun Tso, John A. Hansen, and Claudio Anasetti

Molecular and Structural Immunology

Analysis of a Hot Spot for DNA Insertion Suggests a Mechanism for Ig Switch Recombination
Joseph Baar, Nancy M. Pennell, and Marc J. Shulman
Kinetics of Generation and Persistence on Membrane Class II Molecules of a Viral Peptide Expressed on Foreign and Self Proteins
Adrian Bot, Simona Bot, Stefan Antohi, Klaus Karjalainen, and Constantin Bona

Residues Critical for H-L Disulfide Bond Formation in Human IgA1 and IgA2
Koteswara R. Chintalachamvu and Sherie L. Morrison

Multiple Types of Chimeric Germ-Line Ig Heavy Chain Transcripts in Human B Cells: Evidence for trans-Splicing of Human Ig RNA
Shigeharu Fujieda, Ying Qiang Lin, Andrew Saxon, and Ke Zhang

Molecular Interactions Between Transfected Human TCR, Immunodominant Myelin Basic Protein Peptide 152–165, and HLA-DR13
Alice E. Hastings, Carolyn Katovich Hurley, Eve D. Robinson, Kilian Salerno, Eric Hernandez, and John R. Richert

Postinduction Transcriptional Repression of E-Selectin and Vascular Cell Adhesion Molecule-1
Margaret A. Read, Andrew S. Neish, Mary E. Gerritsen, and Tucker Collins

Specificity and Degeneracy in Peptide Binding to HLA-B7-Like Class I Molecules
John Sidney, Scott Southwood, Marie-France del Guercio, Howard M. Grey, Robert W. Chesnut, Ralph T. Kubo, and Alessandro Sette

HMG Box-Activating Factors 1 and 2, Two HMG Box Transcription Factors That Bind the Human Ig Heavy Chain Enhancer
Sean Stevens, Peter Ordentlich, Ranjan Sen, and Tom Kadesch

A Critical Role of Sp1- and Ets-Related Transcription Factors in Maintaining CTL-Specific Expression of the Mouse Perforin Gene
Byung-S. Youn, Kack-K. Kim, and Byoung S. Kwon

Control of Endogenous Mouse Mammary Tumor Virus Superantigen Expression in SJL Lymphomas by a Promoter Within the env Region
Da-Jun Zhang, Vincent K. Tsiagbe, Ching Huang, and G. Jeanette Thorbecke

HOST DEFENSE

Control of Parasitemia and Survival During Trypanosoma brucei Infection Is Related to Strain-Dependent Ability to Produce IL-4
Moiz Bakhiet, Liselott Jansson, Philippe Büscher, Rikard Holmdahl, Kristers Kristensson, and Tomas Olsson

Key Epitopes on the ESAT-6 Antigen Recognized in Mice During the Recall of Protective Immunity to Mycobacterium tuberculosis
Lise Brandt, Thomas Oettinger, Arne Holm, Ase B. Andersen, and Peter Andersen

Detection of Borrelia burgdorferi-Specific CD8+ Cytotoxic T Cells in Patients with Lyme Arthritis
Dirk H. Busch, Christian Jassoy, Ute Brinckmann, Hermann Girschick, and Hans-Iko Huppertz
Persistent Cytokine Expression in Trigeminal Ganglion Latently Infected with Herpes Simplex Virus Type 1
William P. Halford, Bryan M. Gebhardt, and Daniel J. J. Carr

DNA Vaccination Primes MHC Class I-Restricted, Simian Virus 40 Large Tumor Antigen-Specific CTL in H-2d Mice That Reject Syngeneic Tumors
Reinhold Schirmbeck, Waltraud Böhm, and Jörg Reimann

Natural Resistance to Intracellular Infections: Nramp1 Encodes a Membrane Phosphoglycoprotein Absent in Macrophages from Susceptible (Nramp1^b169) Mouse Strains
Silvia M. Vidal, Elhanan Pinner, Pierre LePage, Susan Gauthier, and Philippe Gros

Expression of Type II Nitric Oxide Synthase in Primary Human Astrocytes and Microglia: Role of IL-1β and IL-1 Receptor Antagonist
Judy Liu, Meng-Liang Zhao, Celia F. Brosnan, and Sunhee C. Lee

Induction of Nitric Oxide Synthase in Mouse Dendritic Cells by IFN-γ, Endotoxin, and Interaction with Allogeneic T Cells: Nitric Oxide Production Is Associated with Dendritic Cell Apoptosis
Lina Lu, C. Andrew Bonham, Frances G. Chambers, Simon C. Watkins, Rosemary A. Hoffman, Richard L. Simmons, and Angus W. Thomson

Transcriptional Up-Regulation of Intracellular Adhesion Molecule-1 in Human Endothelial Cells by the Antioxidant Pyrrolidine Dithiocarbamate Involves the Activation of Activating Protein-1
Cecilia Muñoz, María C. Castellanos, Arántzazu Alfranca, Alicia Vera, Miguel A. Esteban, Juan Miguel Redondo, and Manuel O. de Landázuri

Synthesis of the CC-Chemokines MIP-1α, MIP-1β, and RANTES Is Associated with a Type 1 Immune Response
Silke Schrum, Peter Probst, Bernhard Fleischer, and Peter F. Zipfel

Regulation of Polymorphonuclear Leukocyte Cytokine Receptor Expression: The Role of Altered Oxygen Tensions and Matrix Proteins
Hank Simms and Ronald D'Amico

CD63 Associates with Tyrosine Kinase Activity and CD11/CD18, and Transmits an Activation Signal in Neutrophils
Keith M. Skubitz, Kenneth D. Campbell, Joji Iida, and Amy P. N. Skubitz

Recombinant Human IL-11 Attenuates the Inflammatory Response Through Down-Regulation of Prolinflammatory Cytokine Release and Nitric Oxide Production
William L. Trepicchio, Mary Bozza, Glen Pedneault, and Andrew J. Dorner

Reverse Signaling via CD30 Ligand
Steven R. Wiley, Raymond G. Goodwin, and Craig A. Smith

IgE Autoantibodies Directed Against the Major Bullous Pemphigoid Antigen in Patients with a Severe Form of Pemphigoid
Emmanuel Delaporte, Ariane Dubost-Brama, Reza Ghohestani, Jean-François Nicolas, Jean-Loup Neyrinck, Henri Bergoend, Anne Janin, and Monique Capron
Molecular Bases of Combined Subtotal Deficiencies of C6 and C7: Their Effects in Combination with Other C6 and C7 Deficiencies
Barbara A. Fernie, Reinhard Wurzner, Ann Orren, B. Paul Morgan, Paul C. Potter, Alexander E. Platonov, Irina V. Vershinina, German A. Shipulin, Peter J. Lachmann, and Michael J. Hobart

Env-Specific CTL Predominate in Cats Protected from Feline Immunodeficiency Virus Infection by Vaccination
J. Norman Flynn, Paula Keating, Margaret J. Hosie, Mike Mackett, Edward B. Stephens, Julia A. Beaty, James C. Neil, and Oswald Jarrett

Molecular Characterization of Properdin Deficiency Type III: Dysfunction Produced by a Single Point Mutation in Exon 9 of the Structural Gene Causing a Tyrosine to Aspartic Acid Interchange
Gunilla Nordin Fredriksson, Joakim Westberg, Ed J. Kuijper, Cees C. Tijsen, Anders G. Sjöholm, Mathias Uhlén, and Lennart Truedsson

Regulation of Surface and Soluble TNF Receptor Expression on Human Monocytes and Synovial Fluid Macrophages by IL-4 and IL-10
Prue H. Hart, Emma K. Hunt, Claudine S. Bonder, Christopher J. Watson, and John J. Finlay-Jones

IL-15 Stimulates the Expansion of AIDS Virus-Specific CTL
Takanori Kanai, Elaine K. Thomas, Yasuhiro Yasutomi, and Norman L. Letvin

RIP-β2-Microglobulin Transgene Expression Restores Insulitis, but not Diabetes, in β2-Microglobulinnull Nonobese Diabetic Mice
Thomas W. H. Kay, Jennie L. Parker, Leigh A. Stephens, Helen E. Thomas, and Janette Allison

The Immune Response to 52-kDa Ro and 60-kDa Ro Is Linked in Experimental Autoimmunity
Catherine L. Keech, Tom P. Gordon, and James McCluskey

Ex Vivo Treatment of Antigen-Presenting Cells with CTLA4Ig and Encephalitogenic Peptide Prevents Experimental Autoimmune Encephalomyelitis in the Lewis Rat
Samia J. Khoury, Lorenzo Gallon, Robert R. Verburg, Anil Chandraker, Robert Peach, Peter S. Linsley, Laurence A. Turka, Wayne W. Hancock, and Mohamed H. Sayegh

A CD4-CDR3 Peptide Analog Inhibits Both Primary and Secondary Autoreactive CD4+ T Cell Responses in Experimental Allergic Encephalomyelitis
Joseph C. Marini, Bradford A. Jameson, Fred D. Lublin, and Robert Korngold

High Density Insulin Receptor-Positive T Lymphocytes from Nonobese Diabetic Mice Transfer Insulitis and Diabetes
Marcia F. McInerney, Jeffrey C. Flynn, Peter J. Goldblatt, Sonia M. Najjar, Robert S. Sherwin, and Charles A. Janeway, Jr.

Nonrheumatoid IgM in Human Hepatitis C Virus-Associated Type II Cryoglobulinemia Recognize Mimotopes of the CD4-Like LAG-3 Protein
Monica Mecchia, Milvia Casato, Rosaiba Tafi, Gessica Filocamo, Lorenzo Bonomo, Massimo Fiorilli, Riccardo Cortese, Giovanni Migliaccio, and Alfredo Nicosia
Induction of Tolerance in Murine Autoimmune Diabetes by Transient Blockade of Leukocyte Function-Associated Antigen-1/Intercellular Adhesion Molecule-1 Pathway
Hiroaki Moriyama, Koichi Yokono, Kazuhiko Amano, Masao Nagata, Yutaka Hasegawa, Naoko Okamoto, Kazuya Tsukamoto, Masatosi Miki, Ryoji Yoneda, Norio Yagi, Yoichi Tominaga, Hitoshi Kikutani, Kyoji Hioki, Ko Okumura, Hideo Yagita, and Masato Kasuga

Site-Directed Mutagenesis of Recombinant Human β2-Glycoprotein I Identifies a Cluster of Lysine Residues That Are Critical for Phospholipid Binding and Anti-Cardiolipin Antibody Activity
Yonghua Sheng, Andrej Sali, Herbert Herzog, Jelle Lahnstein, and Steven A. Krilis

Expression of Acetylcholine Receptor Genes in Human Thymic Epithelial Cells: Implications for Myasthenia Gravis
Abdelilah Wakkach, Thierry Guyon, Corinne Bruand, Socrates Tzartos, Sylvia Cohen-Kaminsky, and Sonia Berrih-Aknin

Author Index