TABLE OF CONTENTS

5065 Commentary: A Newly Recognized Pathway for the Negative Regulation of Mast Cell-Dependent Hypersensitivity and Inflammation Mediated by an Endogenous Cell Surface Receptor of the gp49 Family
Howard R. Katz and K. Frank Austen

5071 Regulation of the RAG-1 Promoter by the NF-Y Transcription Factor

5075 Abnormal T Lymphocyte Development Induced by Targeted Overexpression of LkBa
Christoph Esslinger, Anne Wilson, Bernard Sordat, Friedrich Beermann, and C. Victor Jongeneel

5079 Inhibition of Graft-Versus-Host Disease Use of a T Cell-Controlled Suicide Gene
M. Helene. V. Lake-Bullock, J. Scott Bryson, C. Darrell Jennings, and Alan M. Kaplan

5083 Human Killer Cell Activatory Receptors for MHC Class I Molecules Are Included in a Multimeric Complex Expressed by Natural Killer Cells
Lucia Olcese, Anna Cambiaggi, Gianpietro Semenzato, Cristina Bottino, Alessandro Moretta, and Eric Vivier

5087 Microbial Products Induce Autoimmune Disease by an IL-12-Dependent Pathway
Benjamin M. Segal, Dennis M. Klinman, and Ethan M. Shevach

5091 CTLA4Ig Prevents Lymphoproliferation and Fatal Multiorgan Tissue Destruction in CTLA-4-Deficient Mice
Elizabeth A. Tivol, Scott D. Boyd, Sean McKeon, Frank Borriello, Peter Nickerson, Terry B. Strom, and Arlene H. Sharpe
Effects of Extracellular ATP and Adenosine on Different Thymocyte Subsets: Possible Role of ATP-Gated Channels and G Protein-Coupled Purinergic Receptor
Sergey G. Apasov, Masahiro Koshiba, Thomas M. Chused, and Michail V. Sitkovsky

Correlation of Tolerogenicity of a Viral Antigen with Its Immunogenicity
Martin F. Bachmann, Thomas Fehr, Giulia Freer, Hans Hengartner, and Rolf M. Zinkernagel

NK1.1+CD4+ T Cells Lose NK1.1 Expression Upon In Vitro Activation
Hangjiong Chen, Hua Huang, and William E. Paul

Blockade of the Voltage-Gated Potassium Channel Kv1.3 Inhibits Immune Responses in Vivo

Dissociation of Apoptosis and Activation of IL-1β-Converting Enzyme/Ced-3 Proteases by ALG-2 and the Truncated Alzheimer's Gene ALG-3
Emanuela Lacanà, J. Kelly Ganjei, Pasquale Vito, and Luciano D'Adamio

Apoptosis During B Lymphopoiesis in Mouse Bone Marrow
Liwei Lu and Dennis G. Osmond

Rapid Nuclear Translocation and Increased Activity of Cyclin-Dependent Kinase 6 After T Cell Activation
Masayuki Nagasawa, Isaac Melamed, Abraham Kupfer, Erwin W. Gelfand, and Joseph J. Lucas

Somatic Mutation Leads to Efficient Affinity Maturation When Centrocytes Recycle Back to Centroblasts
Mihaela Oprea and Alan S. Perelson

Diurnal Rhythmicity of Human Cytokine Production: A Dynamic Disequilibrium in T Helper Cell Type 1/T Helper Cell Type 2 Balance?
Nikolai Petrovsky and Leonard C. Harrison

Thrombopoietin Directly and Potently Stimulates Multilineage Growth and Progenitor Cell Expansion from Primitive (CD34+CD38−) Human Bone Marrow Progenitor Cells: Distinct and Key Interactions with the Ligands for c-kit and flt3, and Inhibitory Effects of TGF-β and TNF-α
Veslemøy Ramsfjell, Ole J. Borge, Li Cui, and Sten E. W. Jacobsen

Indirect Suppression of IL-7-Responsive B Cell Precursors by Vasoactive Intestinal Peptide
Takaichi Shimozato and Paul W. Kincade

TNF Receptor p55 Controls Early Acute Graft-Versus-Host Disease
Daniel E. Speiser, Martin F. Bachmann, Thomas W. Frick, Kim McKall-Faienza, Emily Griffiths, Klaus Pfeffer, Tak W. Mak, and Pamela S. Ohashi
L-Selectin Is Involved in Lymphocyte Migration to Sites of Inflammation in the Skin: Delayed Rejection of Allografts in L-Selectin-Deficient Mice
Mimi L. K. Tang, Laura P. Hale, Douglas A. Steeber, and Thomas F. Tedder

A Selective Inhibitor of Dipeptidyl Peptidase I Impairs Generation of CD8+ T Cell Cytotoxic Effector Function
Dwain L. Thiele, Michael J. McGuire, and Peter E. Lipsky

Multifocal Defects in Immune Responses in RelB-Deficient Mice
Falk Weih, Glenn Warr, Hyekyung Yang, and Rodrigo Bravo

Structurally Similar TCRs Differ in Their Efficiency of Positive Selection
Deborah Yelon and Leslie J. Berg

Gene Transfer Directly Demonstrates a Role for TCR Vα Elements in Superantigen Recognition
David Donson, Heriberto Borrero, Matthew Rutman, Robert Pergolizzi, Norika Malhado, and Stuart Macphail

Conserved and Variable Residues Within the Bw4 Motif of HLA-B Make Separable Contributions to Recognition by the NKB1 Killer Cell-Inhibitory Receptor
Jenny E. Gumperz, Linda D. Barber, Nicholas M. Valiante, Lucy Percival, Joseph H. Phillips, Lewis L. Lanier, and Peter Parham

Natural Inactivation of a Common HLA Allele (A2402) Has Occurred on at Least Three Separate Occasions

Allelic Variation in the Mouse Tap-1 and Tap-2 Transporter Genes
Kate Marusina, Mohan Iyer, and John J. Monaco

Cloning and Characterization of the Human Granulocyte Chemotactic Protein-2 Gene
Leonor E. Rovai, Harvey R. Herschman, and Jeffrey B. Smith

IL-6 Induction of Protein-DNA Complexes Via a Novel Regulatory Region of the Inducible Nitric Oxide Synthase Gene Promoter: Role of Octamer Binding Proteins
Tomohiro Sawada, Lydia A. Falk, Padmini Rao, William J. Murphy, and Dov H. Pluznik

The Mouse Anaphylatoxin C3a Receptor: Molecular Cloning, Genomic Organization, and Functional Expression
Mark A. Tornetta, James J. Foley, Henry M. Sarau, and Robert S. Ames

Perforin, Fas/Fas Ligand, and TNF-α Pathways as Specific and Bystander Killing Mechanisms of Hepatitis C Virus-Specific Human CTL
Kazuki Ando, Kazumasa Hiroishi, Takashi Kaneko, Takashi Moriyama, Yasutoshi Muto, Nobuhiko Kayagaki, Hideo Yagita, Ko Okumura, and Michio Imawari
Sequential Development of Structural and Functional Alterations in T Cells from Tumor-Bearing Mice
Martin R. Correa, Augusto C. Ochoa, Paritosh Ghosh, Hiromoto Mizoguchi, Linda Harvey, and Dan L. Longo

Impaired Macrophage Listericidal and Cytokine Activities Are Responsible for the Rapid Death of Listeria monocytogenes-Infected IFN-γ Receptor-Deficient Mice
Wen Juan Dai, Werner Bartens, Gabrielle Köhler, Markus Hufnagel, Manfred Kopf, and Frank Brombacher

Listeria monocytogenes Infection of Cultured Endothelial Cells Stimulates Neutrophil Adhesion and Adhesion Molecule Expression
Douglas A. Drevets

Role of T Lymphocyte Subsets in Immunity to Spotted Fever Group Rickettsiae
Hui-min Feng, Vsevolod L. Popov, Gbo Yuoh, and David H. Walker

Oral Immunization with Simian Immunodeficiency Virus p55prg and Cholera Toxin Elicits Both Mucosal IgA and Systemic IgG Immune Responses in Nonhuman Primates
Mitsuru Kubota, Christopher J. Miller, Koichi Imaoka, Shigetada Kawabata, Kohtaro Fujiihashi, Jerry R. McGhee, and Hiroshi Kiyono

Protection of Mice Against Trypanosoma cruzi by Immunization with Paraflagellar Rod Proteins Requires T Cell, but Not B Cell, Function
Mark J. Miller, Ruth A. Wrightsman, Gabrielle A. Stryker, and Jerry E. Manning

Involvement of NK1+CD4−CD8− αβ T Cells and Endogenous IL-4 in Non-MHC-Restricted Rejection of Embryonal Carcinoma in Genetically Resistant Mice
Eijiro Nakamura, Hiroshi Kubota, Masaki Sato, Tomoharu Sugie, Osamu Yoshida, and Nagahiro Minato

Neutrophil Production of IL-12 and IL-10 in Candidiasis and Efficacy of IL-12 Therapy in Neutropenic Mice
Luigina Romani, Antonella Mencacci, Etio Cenci, Roberta Spaccapelo, Giuseppe Del Sero, Ildo Nicoletti, Giorgio Trinchieri, Francesco Bistoni, and Paolo Puccetti

Protective Effect of Neoglycoprotein-Conjugated Muramyl Dipeptide Against Leishmania donovani Infection: The Role of Cytokines
Kakali Sarkar and Pijush K. Das

Cytolytically Active Memory CTL Present in Lymphocytic Choriomeningitis Virus-Immune Mice After Clearance of Virus Infection
Liisa K. Selin and Raymond M. Welsh

Role of CD4+ T Cells in Pathogenesis Associated with Leishmania amazonensis Infection
Lynn Soong, Cheong-Hee Chang, Jiaren Sun, B. Jack Longley, Jr., Nancy H. Ruddle, Richard A. Flavell, and Diane McMahon-Pratt
Role of a Sialyl Lewis\textsuperscript{x}-Like Epitope Selectively Expressed on Vascular Endothelial Cells in Local Skin Inflammation of the Rat
Tosihyuki Akahori, Yukio Yuzawa, Kazuhiro Nishikawa, Takuya Tamatani, Reiji Kannagi, Masayuki Miyasaka, Hidechika Okada, Nigishi Hotta, and Seiichi Matsuo

Ultraviolet Light Suppresses IFN-\(\gamma\)-Induced IL-7 Gene Expression in Murine Keratinocytes by Interfering with IFN Regulatory Factors
Yoshinori Aragane, Agatha Schwarz, Thomas A. Leger, Kiyoshi Ariizumi, Akira Takashima, and Thomas Schwarz

Adenosine Inhibits Neutrophil Degranulation in Activated Human Whole Blood: Involvement of Adenosine A2 and A3 Receptors
Maarten G. Bouma, Trudi M. A. Jeunhomme, David L. Boyle, Mieke A. Dentener, Nikolai N. Voitenok, Frans A. J. M. van den Wildenberg, and Wim A. Buurman

Inhibition of CD45 During Neutrophil Activation
Léa Fialkow, Chi Kin Chan, and Gregory P. Downey

N-Acetylcysteine and \(\alpha\)-Tocopherol Reverse the Inflammatory Response in Activated Rat Kupffer Cells
Eben S. Fox, Jayson S. Brower, Joseph M. Bellezzo, and Karen A. Leingang

Tyrosine Kinase-Dependent Regulation of L-Selectin Expression Through the Leu-13 Signal Transduction Molecule: Evidence for a Protein Kinase C-Independent Mechanism of L-Selectin Shedding
Margaret Frey, Michelle M. Appenheimer, and Sharon S. Evans

Thrombin Induces Endothelial Type II Activation In Vitro: IL-1 and TNF-\(\alpha\)-Independent IL-8 Secretion and E-Selectin Expression
Gilles Kaplanski, Martine Fabrigoule, Vera Bontay, Charles A. Dinarello, Pierre Bongrand, Solange Kaplanski, and Catherine Farnarier

Human Alveolar Macrophages Synthesize Endothelins by Thrombin
Yoshiki Kobayashi, Yoshio Sakamoto, Masanori Shibasaki, Isao Kimura, and Hiroshi Matsuo

Regulation of IgE-Dependent IL-4 Generation by Human Basophils Treated with Glucocorticoids
John T. Schroeder, Donald W. MacGlashan, Jr., Susan M. MacDonald, Anne Kagey-Sobotka, and Lawrence M. Lichtenstein

A Novel Mechanism of Alternative Pathway Complement Activation Accounts for the Deposition of C3 Fragments on CR2-Expressing Homologous Cells
Michael G. Schwendinger, Martin Spruth, Jürgen Schoch, Manfred P. Dierich, and Wolfgang M. Prodinger

Eosinophil Adhesion Regulates RANTES Production in Nasal Epithelial Cells
Nobuhisa Terada, Ken-ichi Maesako, Nanako Hamano, Gen Houki, Tatehiko Ikeda, Masahiko Sai, Tetsuji Yamashita, Setsuya Fukuda, Atsushi Wakita, Kentaro Yoshimura, and Akiyoshi Konno
A TCR Vα CDR3-Specific Motif Associated with Lewis Rat Autoimmune Encephalomyelitis and Basic Protein-Specific T Cell Clones
Abigail C. Buenafe, Rachel C. Tsu, Bruce Bebo, Jr., Antony C. Bakke, Arthur A. Vandenbark, and Halina Offner

IFN-γ Is Essential for the Development of Autoimmune Glomerulonephritis in MRL/lpr Mice
Cordula Haas, Bernhard Ryffel, and Michel Le Hir

Concomitant Killing In Vitro of Both gp120-Coated CD4+ Peripheral T Lymphocytes and Natural Killer Cells in the Antibody-Dependent Cellular Cytotoxicity (ADCC) System
Anahid Jewett, Marta Cavalcanti, Janis Giorgi, and Benjamin Bonavida

High Susceptibility to Collagen-Induced Arthritis in Mice Lacking IFN-γ Receptors
Bénédicte Manoury-Schwartz, Gilles Chiocchia, Natacha Bessis, Orly Abehsira-Amar, Frédéric Batteux, Sylviane Muller, Sui Huang, Marie-Christophe Boissier, and Catherine Fournier

Accelerated Collagen-Induced Arthritis in IFN-γ Receptor-Deficient Mice
Kurt Vermeire, Hubertine Heremans, Michel Vandeputte, Sui Huang, Alfons Billiau, and Patrick Matthys

Macrophage Migration Inhibitory Factor Is Involved in the Pathogenesis of Collagen Type II-Induced Arthritis in Mice
Anna Mikulowska, Christine N. Metz, Richard Bucala, and Rikard Holmdahl

Enhancement of gp130-Mediated Tyrosine Phosphorylation of STAT3 and Its DNA-Binding Activity in Dexamethasone-Treated AIDS-Associated Kaposi’s Sarcoma Cells: Selective Synergy Between Dexamethasone and gp130-Related Growth Factors in Kaposi’s Sarcoma Cell Proliferation
Kaoru Murakami-Mori, Shunsuke Mori, Tetsuya Tago, Tadamitsu Kishimoto, and Shuji Nakamura

Up-Regulation of Cytokine mRNA, Adhesion Molecule Proteins, and MHC Class II Proteins in Salivary Glands of TGF-β1 Knockout Mice: MHC Class II Is a Factor in the Pathogenesis of TGF-β1 Knockout Mice
Toru Nakabayashi, John J. Letterio, Andrew G. Geiser, Liping Kong, Noriyoshi Ogawa, Weiguo Zhao, Takao Koike, Gabriel Fernandes, Howard Dang, and Norman Talal

Expression of IFN-Inducible Protein-10 in Chronic Hepatitis
Shosaku Narumi, Yuko Tominaga, Masahiro Tamaru, Shinichiro Shimai, Hidemasa Okumura, Kenichi Nishioji, Yoshito Itoh, and Takeshi Okanoue

Intrinsic Resistance to T Cell Infection with HIV Type 1 Induced by CD28 Costimulation
James L. Riley, Richard G. Carroll, Bruce L. Levine, Wendy Bernstein, Daniel C. St. Louis, Owen S. Weislow, and Carl H. June

A Pronounced Thymic B Cell Deficiency in the Spontaneously Diabetic BB Rat
Søren Tullin, Paul Farris, Jacob Steen Petersen, Lars Hornum, Malene Jankerott, and Helle Markholst
Reduced Production of IL-12 and IL-12-Dependent IFN-γ Release in Patients with Allergic Asthma
Tineke C. T. M. van der Pouw Kraan, Leonie C. M. Boeije, Els R. de Groot, Steven O. Stapel, Alies Snijders, Martien L. Kapsenberg, Jaring S. van der Zee, and Lucien A. Aarden

Control of Multiple Autoantibodies Linked with a Lupus Nephritis Susceptibility Locus in New Zealand Black Mice
Timothy J. Vyse, Stephen J. Rozzo, Charles G. Drake, Shozo Izui, and Brian L. Kotzin

Author Index