TABLE OF CONTENTS

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

1 Modulation of Immunogenicity and Antigenicity of Proteins by Maleylation to Target Scavenger Receptors on Macrophages

9 IL-12 Activates IFN-γ Production Through the Preferential Activation of CD30+ T Cells

17 Heterogeneity of the Circulating Human CD4+ T Cell Population: Further Evidence that the CD4+CD45RA−CD27− T Cell Subset Contains Specialized Primed T Cells
   Paul A. Baars, Madelon M. Maurice, Martin Rep, Berend Hooibrink, and René A. W. van Lier

26 The E2 Molecule (CD99) Specifically Triggers Homotypic Aggregation of CD4+ CD8+ Thymocytes
   Ghislaine Bernard, Didier Zoccola, Marcel Deckert, Jean-Philippe Breittmayer, Claude Aussel, and Alain Bernard

33 Characterization of Surface Lymphotoxin Forms: Use of Specific Monoclonal Antibodies and Soluble Receptors
   Jeffrey L. Browning, Irene Dougas, Apinya Ngam-ek, Paul R. Bourdon, Barbara N. Ehrenfels, Konrad Miatkowski, Mohammad Zafari, Alfred M. Yampaglia, Pornsri Lawton, Werner Meier, Christopher P. Benjamin, and Catherine Hession

47 Induction of Peptide-Specific CD8+ CTL Clones in β2-Microglobulin-Deficient Mice
   James R. Cook, Joyce C. Solheim, Janet M. Connolly, and Ted H. Hansen

58 The Growth Response to IL-7 During Normal Human B Cell Ontogeny Is Restricted to B-Lineage Cells Expressing CD34
   Bonnie N. Dittel and Tucker W. LeBien
Regulation of cAMP-Responsive Enhancer Binding Proteins During Cell Cycle Progression in T Lymphocytes Stimulated by IL-2
Nili Feuerstein, Danyang Huang, Steven H. Hinrichs, Dana J. Orten, Nambi Aiyar, and Michael B. Prystowsky

Selective Loss of NK Cytotoxicity in Antisense NK-TR1 Rat LGL Cell Lines: Abrogation of Antibody-Independent Tumor and Virus-Infected Target Cell Killing

CD8\(^+\) T Cells Specific to the Exogenous Antigen: Mode of Antigen Recognition and Possible Implication in Immunosuppression
Tatsuhiro Hisatsune, Ken-ichi Nishijima, Masako Kohnyama, Hiroko Kato, and Shuichi Kaminogawa

CD80 (B7) and CD86 (B70) Provide Similar Costimulatory Signals for T Cell Proliferation, Cytokine Production, and Generation of CTL
Lewis L. Lanier, Shawn O'Fallon, Chamorro Somoza, Joseph H. Phillips, Peter S. Linsley, Ko Okumura, Daisuke Ito, and Miyuki Azuma

IL-7 Drives Donor T Cell Proliferation and Can Costimulate Cytokine Secretion After MHC-Matched Allogeneic Bone Marrow Transplantation
Robert B. Levy, Monica Jones, Brian L. Hamilton, John Paupe, Tamir Horowitz, and Richard Riley

Characterization of Fibroblasts with a Unique Defect in Processing Antigens with Disulfide Bonds

Delivery of Nascent MHC Class II-Invariant Chain Complexes to Lysosomal Compartments and Proteolysis of Invariant Chain by Cysteine Proteases Precedes Peptide Binding in B-Lymphoblastoid Cells
Phillip A. Morton, Michelle L. Zacheis, Karen S. Giacoletto, Julia A. Manning, and Benjamin D. Schwartz

Human Vascular Smooth Muscle Cells Poorly Co-Stimulate and Actively Inhibit Allogeneic CD4\(^+\) T Cell Proliferation In Vitro
Allan G. Murray, Peter Libby, and Jordan S. Pober

Prostaglandin E\(_2\) Promotes B Lymphocyte Ig Isotype Switching to IgE
Rachel L. Roper, Deborah M. Brown, and Richard P. Phipps

Analysis of Antigen Receptor Signaling in B Cells from Mice with a Retrovirus-Induced Acquired Immunodeficiency Syndrome
Linda A. Selvey, Herbert C. Morse III, Carl H. June, and Richard J. Hodes

Multiple Defects in Innate and Adaptive Immunologic Function in NOD/LtSz-scid Mice
Leonard D. Shultz, Peter A. Schweitzer, Sherri W. Christianson, Bruce Gott, Isabelle B. Schweitzer, Barbara Tennent, Sean McKenna, Larry Mobraten, T. V. Rajan, Dale L. Greiner, and Edward H. Leiter
Molecular and Structural Immunology

201 Rearrangement of a VH-Associated LINE-1 Element with the Expressed IgH Cluster in a Murine Myeloma Cell Line
Jonathan A. Bard and Barbara K. Birshtein

219 A Simple Mathematical Model for the Functional Peptide/MHC/TCR Interactions
Gérard Eberl, Mario A. Roggero, and Giampietro Corradin

226 Characterization of the Mouse Lymphotoxin-β Gene
Jonathan A. Bard and Barbara K. Birshtein

Characterization and Expression of Alternatively Spliced IgE Heavy Chain Transcripts Produced by Peripheral Blood Lymphocytes
Facundo D. Batista, Dimitar G. Efremov, and Oscar R. Burrone

A Human Anti-Insulin IgG Autoantibody Apparently Arises Through Clonal Selection from an Insulin-Specific “Germ-Line” Natural Antibody Template: Analysis by V Gene Segment Reassortment and Site-Directed Mutagenesis
Yuji Ichiyoshi, Min Zhou, and Paolo Casali

239 Characterization of the Mouse Lymphotoxin-β Gene
Pornsri Lawton, Janice Nelson, Richard Tizard, and Jeffrey L. Browning

247 Several HLA Alleles Share Overlapping Peptide Specificities
John Sidney, Marie-France del Guercio, Scott Southwood, Victor H. Engelhard, Ettore Appella, Hans-George Rammensee, Kirsten Falk, Olaf Rötzerchke, Masafumi Takiguchi, Ralph T. Kubo, Howard M. Grey, and Alessandro Sette

Host Defense

260 Characterization of Regions of Herpes Simplex Virus Type 1 Glycoprotein E Involved in Binding the Fc Domain of Monomeric IgG and in Forming a Complex with Glycoprotein I
Saswata Basu, Gary Dubin, Mitali Basu, Van Nguyen, and Harvey M. Friedman

Alteration of Pulmonary Macrophage Function by Respiratory Syncytial Virus Infection In Vitro
G. Franke-Ullmann, C. Pförtner, P. Walter, C. Steinmüller, M.-L. Lohmann-Matthes, L. Kobzik, and J. Freihorst

Antitumor Activities of Subsets of Human IL-2-Activated Natural Killer Cells in Solid Tissues
Nikola L. Vujanovic, Satoshi Yasumura, Hideki Hirabayashi, Wen-chang Lin, Simon Watkins, Ronald B. Herberman, and Theresa L. Whiteside

Enhanced Cytotoxicity of IFN-γ-Producing CD4+ Cytotoxic T Lymphocytes Specific for T. gondii-Infected Human Melanoma Cells
Tian-Hui Yang, Fumie Aosai, Kazumi Norose, Masakatsu Ueda, and Akihiko Yano

Inflammation

299 Ligation of Platelet/Endothelial Cell Adhesion Molecule 1 (PECAM-1/CD31) on Monocytes and Neutrophils Increases Binding Capacity of Leukocyte CR3 (CD11b/CD18)
Miriam E. Berman and William A. Muller
Inhibition of Chemotactic Peptide-Induced Neutrophil Adhesion to Vascular Endothelium by cAMP Modulators
Claudia K. Derian, Rosemary J. Santulli, Patricia E. Rao, Howard F. Solomon, and John A. Barrett

IgG Immune Complexes Inhibit IFN-γ-Induced Transcription of the FcγRI Gene in Human Monocytes by Preventing the Tyrosine Phosphorylation of the p91 (Stat1) Transcription Factor
Gerald M. Feldman, Eric J. Chuang, and David S. Finbloom

Inhibition of Neutrophil Adhesion by Adenosine and an Adenosine Kinase Inhibitor: The Role of Selectins
Gary S. Firestein, David A. Bullough, Mark D. Erion, Roland Jimenez, Michele Ramirez-Weinhouse, Jerzy Barankiewicz, C. Wayne Smith, Harry E. Gruber, and Kevin M. Mullane

Functional Characterization of the Rat Chemokine KC and Its Importance in Neutrophil Recruitment in a Rat Model of Pulmonary Inflammation
Charles W. Frevert, Songlih Huang, Hadi Danaee, Joseph D. Paulauskis, and Lester Kobzik

Potential Requirement of a Functional Double-Stranded RNA-Dependent Protein Kinase (PKR) for the Tumoricidal Activation of Macrophages by Lipopolysaccharide or IFN-αβ, but not IFN-γ
G. Luca Gusella, Tiziana Musso, Sandra E. Rottschafer, Kari Pulkki, and Luigi Varesio

Murine KIT+ Lineage− Bone Marrow Progenitors Express FcγR-II But Do Not Express Fce-RI Until Mast Cell Granule Formation
Chris S. Lantz and Thomas F. Huff

Constitutive Expression of Human hsp27, Drosophila hsp27, or Human αB-Crystallin Confers Resistance to TNF- and Oxidative Stress-Induced Cytotoxicity in Stably Transfected Murine L929 Fibroblasts
Patrick Mehlen, Xavier Preville, Pierre Charegron, Jérôme Briolay, Roman Klmenz, and André-Patrick Arrigo

Ig-Binding Surface Proteins of Streptococcus pyogenes also Bind Human C4b-Binding Protein (C4BP), a Regulatory Component of the Complement System
Anette Them, Lars Stenberg, Björn Dahlbäck, and Gunnar Lindahl

CLINICAL IMMUNOLOGY

Experimental Autoimmune Encephalomyelitis-Resistant Mice Have Highly Encephalitogenic Myelin Basic Protein (MBP)-Specific T Cell Clones That Recognize a MBP Peptide with High Affinity for MHC Class II
Sara Abromson-Leeman, Jeff Alexander, Roderick Bronson, John Carroll, Scott Southwood, and Martin Dorf

A Peptide-Based Human T Cell Leukemia Virus Type I Vaccine Containing T and B Cell Epitopes That Induces High Titers of Neutralizing Antibodies
Eishi Baba, Minoru Nakamura, Kazu Ohkuma, Jun-ichi Kira, Yuetsu Tanaka, Shuji Nakano, and Yoshiyuki Niho
Monoclonal IgM Rheumatoid Factor Secreted by CD5-Negative B Cells During Mixed Cryoglobulinemia: Evidence for Somatic Mutations and Intraclonal Diversity of the Expressed $V_H$ Region Gene
Rachel Crouzier, Thierry Martin, and Jean-Louis Pasquali

HIV-1 Infection Alters Monocyte Interactions with Human Microvascular Endothelial Cells

HIV-1-Specific Cytotoxic T Lymphocyte Responses in the First Year of Life
Katherine Luzuriaga, Deborah Holmes, Amy Hereema, Johnson Wong, Dennis L. Panicali, and John L. Sullivan

HIV-1-Specific Cytotoxic T Lymphocyte Responses in the First Year of Life
Katherine Luzuriaga, Deborah Holmes, Amy Hereema, Johnson Wong, Dennis L. Panicali, and John L. Sullivan

In Vivo Depletion of Thy-1-Positive Cells Originating from Normal Bone Marrow Abrogates the Suppression of gld Disease in Normal-gld Mixed Bone Marrow Chimeras
Glen C. MacDonald, Vellalore N. Kakkanaiah, Eric S. Sobel, Philip L. Cohen, and Robert A. Eisenberg

Retinoid Treatment of Experimental Allergic Encephalomyelitis: IL-4 Production Correlates with Improved Disease Course
Michael K. Racke, Dionne Burnett, Seong-Hee Pak, Paul S. Albert, Barbara Cannella, Cedric S. Raine, Dale E. McFartlin, and Dorothy E. Scott

Co-Infusion of Normal Bone Marrow Partially Corrects the gld T-Cell Defect: Evidence for an Intrinsic and Extrinsic Role for Fas Ligand
Eric S. Sobel, Vellalore N. Kakkanaiah, Manickasundari Kakkanaiah, Philip L. Cohen, and Robert A. Eisenberg

Enhanced Production of TGF-β by Blood Monocytes from Patients with Active Tuberculosis and Presence of TGF-β in Tuberculous Granulomatous Lung Lesions
Zahra Toossi, Prema Gogate, Hiroe Shiratsuchi, Tzuguang Young, and Jerrold J. Ellner

Author Index

Information for Authors

Submission Form

Membership Application