Contents

CELLULAR IMMUNOLOGY


M. Eto, H. Mayumi, Y. Tomita, Y. Yoshikai, Y. Nishimura, and K. Nomoto

A. Ezquerra, R. G. Cron, T. J. McConnell, R. B. Valas, J. A. Bluestone, and J. E. Coligan

L. C. Gahring and W. O. Weigle

S. C. Jameson, J. Kaye, and N. R. J. Gascoigne

M. Kotb, G. Majumdar, M. Tomai, and E. H. Beachey


C. Leclerc, M.-P. Schutze, E. Deriaud, and G. Przewlocki

P. Machy, J.-P. Bizozzero, H. Reggio, and L. Leserman

J. Martorell, I. Rojo, R. Viella, E. Martinez-Caceres, and J. Vives

M. A. Nieto, A. González, A. López-Rivas, F. Diaz-Espada, and F. Gambón

R. L. Mosley, D. Styre, and J. R. Klein

P. J. Whiteley, N. J. Pindexter, C. Landon, and J. A. Kapp

P. Yachelini, I. Falk, and K. Eichmann

Differences in the Expression Profiles of CD45RB, Pgp-1, and 3G11 Membrane Antigens and in the Patterns of Lymphokine Secretion by Splenic CD4+ T Cells from Young and Aged Mice

Sequential Mechanisms of Cyclophosphamide-Induced Skin Allograft Tolerance Including the Intrathymic Clonal Deletion Followed by Late Breakdown of the Clonal Deletion

T Cell Receptor δ-Gene Expression and Diversity in the Mouse Spleen

The Regulatory Effects of Cytokines on the Induction of a Peripheral Immunologic Tolerance in Mice

Accessory Cell-Independent Stimulation of Human T Cells by Streptococcal M Protein Superantigen

Cross-Linking Fc Receptors on Monocyte Triggers IL-6 Production: Role in Anti-CD3-Induced T Cell Activation

The in Vivo Elimination of CD4+ T Cells Prevents the Induction but Not the Expression of Carrier-Induced Epitopic Suppression

Endocytosis and Recycling of MHC-Encoded Class II Molecules by Mouse B Lymphocytes

CD27 Induction on Thymocytes

IL-2 Protects against Anti-CD3-Induced Cell Death in Human Medullary Thymocytes

Differentiation and Functional Maturation of Bone Marrow-Derived Intestinal Epithelial T Cells Expressing Membrane T Cell Receptor in Athymic Radiation Chimeras

A Peripheral Mechanism Preserves Self-Tolerance to a Secreted Protein in Transgenic Mice

Deviations in Thymocyte Development Induced by Divalent and Monovalent Ligation of the α/β T Cell Receptor and by Its Cross-Linking to CD8

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

R. P. Lauener, R. S. Geha, and D. Vercelli


Engagement of the Monocyte Surface Antigen CD14 Induces Lymphocyte Function-Associated Antigen-1/Intercellular Adhesion Molecule-1-Dependent Homotypic Adhesion

Inhibition of Type 1 Diabetes in BB Rats with Recombinant Human Tumor Necrosis Factor-α

Continued on page 4
Continued from page 3

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

E. A. Clark and G. Shu
Cytokines and Molecules Involved in the Regulation of CD40 Signaling

Down-Regulation of IL-2 Production by Activation of T Cells Through Ly-6A/E

C. Lucas, L. N. Bald, B. M. Fendly, M. Mora-Worms, I. S. Figari, E. J. Patzer, and M. A. Palladino
The Autocrine Production of Transforming Growth Factor-β, during Lymphocyte Activation: A Study with a Monoclonal Antibody-Based ELISA

Lymphokine-Regulated Differential Expression of mRNA for p75kDa-IL-2R in a Cloned B Lymphoma Line (BL6-CL-3 Cells)

Stimulation of α-Adrenergic Receptor Augments the Production of Macrophage-Derived Tumor Necrosis Factor

IL-4 Inhibits the Expression of IL-8 from Stimulated Human Monocytes

**IMMUNOCHEMISTRY**

M. Budisavljevic, P. M. Ronco, and P. J. Verroust
Angiotensin II [All]-Related Idiotypic Network. III. Comparative Analysis of Idiotopes and Paratopes Borne by Monoclonal Antibodies Raised against All (AB1) and its Internal Image (AB3)

Phosphorylation-Dephosphorylation of the CD6 Glycoprotein Renders Two Isoforms of 130 and 105 Kilodaltons: Effect of Serum and Protein Kinase C Activators

H. D. Hunt, J. K. Pullen, R. F. Dick, J. A. Bluestone, and L. R. Pease
Structural Basis of Kβ<sub>onh</sub> Alloreactivity: Amino Acid Substitutions on the β-Pleated Floor of the Antigen Recognition Site

M. B. Raizman, K. F. Austen, and H. R. Katz
Mast Cell Heterogeneity: Differential Synthesis and Expression of Glycosphingolipids by Mouse Serosal Mast Cells as Compared to IL-3-Dependent Bone Marrow Culture-Derived Mast Cells before or after Coculture with 3T3 Fibroblasts

Peptides Generated from C-Reactive Protein by a Neutrophil Membrane Protease: Amino Acid Sequence and Effects of Peptides on Neutrophil Oxidative Metabolism and Chemotaxis

M. van de Rijn, I. L. Weissman, and M. Siegelman
Biosynthesis Pathway of gp90<sub>MEL-14</sub>, the Mouse Lymph Node-Specific Homing Receptor

**IMMUNOPHARMACOLOGY**

R. I. Connor, L. Shen, and M. W. Fanger
Evaluation of the Antibody-Dependent Cytotoxic Capabilities of Individual Human Monocytes: Role of FcγRI and FcγRII and the Effects of Cytokines at the Single Cell Level

K. J. Einspahr, R. T. Abraham, C. J. Dick, and P. J. Leibson
Protein Tyrosine Phosphorylation and p56<sup>ck</sup> Modification in IL-2 or Phorbol Ester-Activated Human Natural Killer Cells

P. J. Leibson, D. E. Midthun, K. P. Windebank, and R. T. Abraham
Transmembrane Signaling during Natural Killer Cell-Mediated Cytotoxicity: Regulation by Protein Kinase C Activation

L. M. Flebbe, S. K. Chapes, and D. C. Morrison
Activation of C3H/HeJ Macrophage Tumoricidal Activity and Cytokine Release by R-Chemotype Lipopolysaccharide Preparations: Differential Effects of IFN-γ

Y. Kalechman, M. Albeck, M. Oron, D. Sobelman, M. Gurwith, S. N. Seghal, and B. Sredni
Radioprotective Effects of the Immunomodulator AS101

Continued on page 5
J. C. Kirchheimer, B. R. Binder, and H. G. Remold
J. B. Lefkowitz, A. Morrison, V. Lee, and M. Rogers
V. L. Shepherd, R. Abdolrasulnia, M. Garrett, and H. B. Cowan
P. Zanovello, V. Bronte, A. Rosato, P. Pizzo, and F. Di Virgilio

1518 Matrix-Bound Plasminogen Activator Inhibitor Type 1 Inhibits the Invasion of Human Monocytes into Interstitial Tissue
1523 Manipulation of the Acute Inflammatory Response by Dietary Polyunsaturated Fatty Acid Modulation
1530 Down-Regulation of Mannose Receptor Activity in Macrophages after Treatment with Lipopolysaccharide and Phorbol Esters
1537 Adenosine and Related Compounds Counteract Tumor Necrosis Factor-α Inhibition of Neutrophil Migration: Implication of a Novel Cyclic AMP-Independent Action on the Cell Surface
1545 Responses of Mouse Lymphocytes to Extracellular ATP. II. Extracellular ATP Causes Cell Type-Dependent Lysis and DNA Fragmentation

K. F. Colina, F. B. Perler, I. Matsumura, M. Meda, and T. B. Nutman
J. A. Londono, H. Gras-Masse, C. Dubeaux, A. Tartar, and P. Druille
S. G. Reed, K. H. Grabstein, D. L. Pihl, and P. J. Morrissey
R. Taghi-Kilani, L. Sekla, and K. T. HayGlass

1551 The Identification of an Onchocerca-Specific Recombinant Antigen Containing a T Cell Epitope
1557 Secondary Structure and Immunogenicity of Hybrid Synthetic Peptides Derived from Two Plasmodium falciparum Pre-Erythrocytic Antigens
1564 Recombinant Granulocyte-Macrophage Colony-Stimulating Factor Restores Deficient Immune Responses in Mice with Chronic Trypanosoma cruzi Infections
1571 The Role of Humoral Immunity in Cryptosporidium spp. Infection: Studies with B Cell-Depleted Mice

F. Mauxion, M. G. Pray, and R. Sen
J. D. Mountz, J. F. Mushinski, J. D. Owens, and F. D. Finkelman
T. V. Rajan, L. F. Moffat, and W. N. Frankel
L. Ramakrishnan, Q. Wu, A. Yue, M. D. Cooper, and N. Rosenberg

1577 Multiple Nuclear Factors Interact with Sequences within the Jβ2-Cα2 Intron of the Murine T Cell Receptor β-Chain Gene
1583 The in Vivo Generation of Murine IgD-Secreting Cells Is Accompanied by Deletion of the Cμ Gene and Occasional Deletion of the Gene for the Cα1 Domain
1592 High Frequency Expression of S107 Vλ Genes by Peritoneal B Cells of B10.H-2dH-4P/WTS Mice
1598 Rate and Mechanism of Generation of β2-Microglobulin Mutants from a Heterozygous Murine Cell Line
1603 EP-1/6C3 Expression Defines a Differentiation Stage of Transformed Pre-B Cells and Is Not Related to Malignant Potential
1609 Identification of a New Vλ Gene Family That Is Highly Expressed in Hybridomas from an Autoimmune Mouse Strain

R. B. Alexander and S. A. Rosenberg
E. Gorelik, G. Jay, B. Kwiatkowski, and R. B. Herberman

1615 Long Term Survival of Adoptively Transferred Tumor-Infiltrating Lymphocytes in Mice
1821 Increased Sensitivity to MHC-Nonrestricted Lysis of BL6 Melanoma Cells by Transfection with Class I H-2Kb Gene

Author Index