**Contents**

**CELLULAR IMMUNOLOGY**

D. M. Allman, S. E. Ferguson, and M. P. Cancro

N. K. Damle, K. Klussman, P. S. Linsley, A. Aruffo, and J. A. Ledbetter

S.-L. Lin, D. Derr, and J. E. K. Hildreth

C. Marquez, C. Martinez-A., G. Kroemer, and L. Bosca


Peripheral B Cell Maturation. I. Immature Peripheral B Cells in Adults Are Heat-Stable Antigen\(^\text{II}\) and Exhibit Unique Signaling Characteristics

Differential Regulatory Effects of Intercellular Cell Adhesion Molecule-1 on Costimulation by the CD28 Counter-Receptor B7

A Monoclonal Antibody against a Novel 20-kDa Protein Induces Cell Adhesion and Cytoskeleton-Dependent Morphologic Changes

Protein Kinase C Isoenzymes Display Differential Affinity for Phorbol Esters: Analysis of Phorbol Ester Receptors in B Cell Differentiation

Role of Hapten-Anchoring Peptides in Defining Hapten-Epitopes for MHC-Restricted Cytotoxic T Cells: Cross-Reactive TNP-Determinants on Different Peptides

Recombinant *Escherichia coli* Express a Defined, Cytosplastic Epitope That Is Efficiently Processed in Macrophage Phagolysosomes for Class II MHC Presentation to T Lymphocytes

Ganglioside-Induced CD4 Endocytosis Occurs Independent of Serine Phosphorylation and Is Accompanied by Dissociation P56\(^\text{Ick}\)

**MOLECULAR AND STRUCTURAL IMMUNOLOGY**

R. G. DiScipio

C. Gerard, L. Bao, O. Orozco, M. Pearson, D. Kunz, and N. P. Gerard

S. M. Glaser, M. Vásquez, P. W. Payne, and W. P. Schneider

T. P. Gunley, I. F. C. McKenzie, C. A. Kozak, and M. S. Sandrin

M. G. Lichtenheld and E. R. Poddack

K. E. Magor, G. W. Warr, D. Middleton, M. R. Wilson, and D. A. Higgins

J. Sidney, C. Oseroff, S. Southwood, M. Wall, G. Ishioka, F. Koning, and A. Sette


H. Xu, I. L. Tong, A. R. de Fougerolles, and T. A. Springer

Ultrastructures and Interactions of Complement Factors H and I\(^\text{I}\)

Structural Diversity in the Extracellular Faces of Peptidergic G-Protein-Coupled Receptors: Molecular Cloning of the Mouse C5a Anaphylatoxin Receptor

Dissection of the Antigen Combining Site in a Humanized Anti-Tac Antibody

Isolation and Characterization of cDNA Clones for the Mouse Thymocyte B Cell Antigen (ThB)

Structure and Function of the Murine Perforin Promoter and Upstream Region. Reciprocal Gene Activation or Silencing in Perforin Positive and Negative Cells

Structural Relationship between the Two IgY of the Duck, *Anas platyrhynchos*: Molecular Genetic Evidence

DRB1*0301 Molecules Recognize a Structural Motif Distinct from the One Recognized by Most DR\(\beta\)\(^1\) Alleles

Identification and Characterization of the Murine Homologue of CD22, a B Lymphocyte-Restricted Adhesion Molecule

Isolation, Characterization, and Expression of Mouse ICAM-2 Complementary and Genomic DNA

Continued on page 5
### IMMUNE MODULATION

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Baccarini, P. D. Sbarba, D. Buscher, A. Bartocci, and E. R. Stanley</td>
<td>2656</td>
<td>IFN-γ/Lipopolysaccharide Activation of Macrophages Is Associated With Protein Kinase C-Dependent Down-Modulation of the Colony-Stimulating Factor-1 Receptor</td>
</tr>
<tr>
<td>M. Krieger, T. Brunner, S. C. Bischoff, V. von Tscharner, A. Walz, B. Moser, M. Baggiolini, and C. A. Dahinden</td>
<td>2662</td>
<td>Activation of Human Basophils through the IL-8 Receptor</td>
</tr>
<tr>
<td>K. Nomoto, M. Eto, K. Yanaga, Y. Nishimura, T. Maeda, and K. Nomoto</td>
<td>2668</td>
<td>Interference with Cyclophosphamide-Induced Skin Allograft Tolerance by Cyclosporin A</td>
</tr>
<tr>
<td>J. A. Peyman and G. L. Hammond</td>
<td>2675</td>
<td>Localization of IFN-γ Receptor in First Trimester Placenta to Trophoblasts but Lack of Stimulation of HLA-DRA, -DRB, or Invariant Chain mRNA Expression by IFN-γ</td>
</tr>
<tr>
<td>C. D. L. Reid, A. Stackpoole, A. Meager, and J. Tikerpae</td>
<td>2681</td>
<td>Interactions of Tumor Necrosis Factor with Granulocyte-Macrophage Colony-Stimulating Factor and Other Cytokines in the Regulation of Dendritic Cell Growth in Vitro from Early Bipotent CD34⁺ Progenitors in Human Bone Marrow</td>
</tr>
<tr>
<td>P. C. Wilkinson and I. Newman</td>
<td>2689</td>
<td>Identification of IL-8 as a Locomotor Attractant for Activated Human Lymphocytes in Mononuclear Cell Cultures with Anti-CD3 or Purified Protein Derivative of Mycobacterium tuberculosis</td>
</tr>
</tbody>
</table>

### HOST DEFENSE

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. M. C. Calle, E. H. Nardin, P. Clavijo, C. Boudin, D. Stuber, B. Takacs, R. S. Nussenzweig, and A. H. Cochrane</td>
<td>2695</td>
<td>Recognition of Different Domains of the Plasmodium falciparum CS Protein by the Sera of Naturally Infected Individuals Compared with Those of Sporozoite-Immunized Volunteers</td>
</tr>
<tr>
<td>N. A. Nnalue, S. M. Lind, and A. A. Lindberg</td>
<td>2702</td>
<td>Autocrine Growth Limitation of Human Papillomavirus Type 16-Harboring Keratinocytes by Constitutively Released Tumor Necrosis Factor-α</td>
</tr>
<tr>
<td>C. D. Mills, J. Shearer, R. Evans, and M. D. Caldwell</td>
<td>2709</td>
<td>Macrophage Arginine Metabolism and the Inhibition or Stimulation of Cancer</td>
</tr>
<tr>
<td>L. Morris, A. B. Troutt, E. Handman, and A. Kelso</td>
<td>2715</td>
<td>Changes in the Precursor Frequencies of IL-4 and IFN-γ Secreting CD4⁺ Cells Correlate with Resolution of Lesions in Murine Cutaneous Leishmaniasis</td>
</tr>
<tr>
<td>N. A. Nnalue, S. M. Lind, and A. A. Lindberg</td>
<td>2722</td>
<td>The Disaccharide 1-α-D-Heptosel–7-1-α-D-Heptosel of the Inner Core Domain of Salmonella Lipopolysaccharide Is Accessible to Antibody and Is the Epitope of a Broadly Reactive Monoclonal Antibody</td>
</tr>
<tr>
<td>S. Pruksakorn, A. Galbraith, R. A. Houghten, and M. F. Good</td>
<td>2729</td>
<td>Conserved T and B Cell Epitopes on the M Protein of Group A Streptococci: Induction of Bactericidal Antibodies</td>
</tr>
</tbody>
</table>

### INFLAMMATION

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. C. Chao, S. Hu, T. W. Molitor, E. G. Shaskan, and P. K. Peterson</td>
<td>2736</td>
<td>Activated Microglia Mediate Neuronal Cell Injury via a Nitric Oxide Mechanism</td>
</tr>
<tr>
<td>C. M. Nguer, O. Pellegrini, P. Galanaud, J. Benveniste, Y. Thomas, and Y. Richard</td>
<td>2742</td>
<td>Regulation of PAF-Acether Receptor Expression in Human B Cells</td>
</tr>
<tr>
<td>D. K. Perry, W. L. Hand, D. E. Edmondson, and J. D. Lambeth</td>
<td>2749</td>
<td>Role of Phospholipase D-Derived Diradylglycerol in the Activation of the Human Neutrophil Respiratory Burst Oxidase: Inhibition by Phosphatidic Acid Phosphohydrolase Inhibitors</td>
</tr>
<tr>
<td>C. Rosales, H. D. Gresham, and E. J. Brown</td>
<td>2759</td>
<td>Expression of the 50-kDa Integrin-Associated Protein on Myeloid Cells and Erythrocytes</td>
</tr>
<tr>
<td>S. I. Simon, J. D. Chambers, E. Butcher, and L. A. Sklar</td>
<td>2765</td>
<td>Neutrophil Aggregation Is β₂-Integrin- and α-Selectin-Dependent in Blood and Isolated Cells</td>
</tr>
</tbody>
</table>

*Continued on page 7*
M. J. Welham and J. W. Schrader 2772 Steel Factor-Induced Tyrosine Phosphorylation in Murine Mast Cells: Common Elements with IL-3-Induced Signal Transduction Pathways

CLINICAL IMMUNOLOGY

H. Abken, J. Fluck, and K. Willetz
2785 Four Cell-Secreted Cytokines Act Synergistically to Maintain Long Term Proliferation of Human B Cell Lines in Vitro

R. de Jong, M. Brouwer, H. M. Kuiper, B. Hooibrink, F. Miedema, and R. A. W. van Lier
2795 Maturation- and Differentiation-Dependent Responsiveness of Human CD4+ T Helper Subsets

G. A. Hashim, H. Otfiner, R. Y. Wang, K. Shukla, E. Carvalho, W. J. Morrison, and A. A. Vandenbark
2803 Spontaneous Development of Protective Anti-T Cell Receptor Autoimmunity Targeted against a Natural EAE-Regulatory Idiotope Located within the 39-59 Region of the TCR-V\(\alpha\)8.2 Chain

R. J. Kreitman, W. P. Schneider, C. Queen, M. Tsudo, D. J. P. Fitzgerald, T. A. Waldmann, and I. Pastan
2810 Mik-\(\beta\)1(FV)-PE40, a Recombinant Immunotoxin Cytotoxic Toward Cells Bearing the \(\beta\)-Chain of the IL-2 Receptor

H. L. Schieferdecker, R. Ullrich, H. Hirseland, and M. Zeitz
2816 T Cell Differentiation Antigens on Lymphocytes in the Human Intestinal Lamina Propria

J. Williams, S. Johnson, J. J. Mascali, H. Smith, L. J. Rosenwasser, and L. Borish
2823 Regulation of Low Affinity IgE Receptor (CD23) Expression on Mononuclear Phagocytes in Normal and Asthmatic Subjects

S. S. Williams, T. Umemoto, H. Kida, E. A. Repasky, and R. B. Bankert
2830 Engraftment of Human Peripheral Blood Leukocytes into Severe Combined Immunodeficient Mice Results in the Long Term and Dynamic Production of Human Xenoreactive Antibodies

Letter to the Editor 2837
Announcements 2838
Author Index i