## Contents

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. S. Braunstein, R. N. Germain, K. Loney, and N. Berkowitz</td>
<td>1635</td>
<td>Structurally Interdependent and Independent Regions of Allelic Polymorphism in Class II MHC Molecules: Implications for la Function and Evolution</td>
</tr>
<tr>
<td>J. E. Hambor, D. R. Kaplan, and M. L. Tykocinski</td>
<td>1646</td>
<td>CD8 Functions as an Inhibitory Ligand in Mediating the Immunoregulatory Activity of CD8 Cells</td>
</tr>
<tr>
<td>T. Kakiuchi, M. Watanabe, N. Hozumi, and H. Nariuchi</td>
<td>1653</td>
<td>Differential Sensitivity of Specific and Nonspecific Antigen-Presentation by B Cells to a Protein Synthesis Inhibitor</td>
</tr>
<tr>
<td>J. Kampinga, P. Nieuwenhuis, B. Roser, and R. Aspinall</td>
<td>1659</td>
<td>Differences in Turnover between Thymic Medullary Dendritic Cells and a Subset of Cortical Macrophages</td>
</tr>
<tr>
<td>M. Massaia, L. Perrin, A. Bianchi, J. Ruedi, C. Attisano, D. Altieri, G. T. Rijken, and L. F. Thompson</td>
<td>1664</td>
<td>Human T Cell Activation: Synergy between CD73 (Ecto-5'-Nucleotidase) and Signals Delivered through CD3 and CD2 Molecules</td>
</tr>
</tbody>
</table>

### CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Campana, J. Farrant, N. Inamdar, A. D. B. Webster, and G. Janossy</td>
<td>1675</td>
<td>Phenotypic Features and Proliferative Activity of B Cell Progenitors in X-Linked Agammaglobulinemia</td>
</tr>
<tr>
<td>S. Hirohata, T. Inoue, and T. Miyamoto</td>
<td>1681</td>
<td>Frequency Analysis of Human Peripheral Blood B Cells Producing IgM-Rheumatoid Factor: Differential Effects of Stimulation with Monoclonal Antibodies to CD3 and Staphylococcus aureus</td>
</tr>
<tr>
<td>A. G. Lamont, A. Sette, R. Fujinami, S. M. Colón, C. Miles, and H. M. Grey</td>
<td>1687</td>
<td>Inhibition of Experimental AutoimmuneEncephalomyelitis Induction in SJL/J Mice by Using a Peptide with High Affinity for IA* Molecules</td>
</tr>
</tbody>
</table>

### CYTOKINES • MEDIATORS • REGULATORY MOLECULES

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Bertagnolli and S. Herrmann</td>
<td>1706</td>
<td>IL-7 Supports the Generation of Cytotoxic T Lymphocytes from Thymocytes: Multiple Lymphokines Required for Proliferation and Cytotoxicity</td>
</tr>
<tr>
<td>C. Billard, F. Sigaux, and J. Wietzerbin</td>
<td>1713</td>
<td>IFN-α in Vivo Enhances Tumor Necrosis Factor Receptor Levels on Hairy Cells</td>
</tr>
<tr>
<td>G. W. Cox, B. J. Mathiesen, S. L. Giardina, and L. Varesio</td>
<td>1719</td>
<td>Characterization of IL-2 Receptor Expression and Function on Murine Macrophages</td>
</tr>
<tr>
<td>J. Doukas and J. S. Pober</td>
<td>1727</td>
<td>IFN-γ Enhances Endothelial Activation Induced by Tumor Necrosis Factor but Not IL-1</td>
</tr>
<tr>
<td>K. M. Mohler and L. D. Butler</td>
<td>1734</td>
<td>Differential Production of IL-2 and IL-4 mRNA in Vivo after Primary Sensitization</td>
</tr>
<tr>
<td>J. O. Phillips, M. P. Everson, Z. Moldoveanu, C. Lue, and J. Mestecky</td>
<td>1740</td>
<td>Synergistic Effect of IL-4 and IFN-γ on the Expression of Polymeric Ig Receptor (Secretory Component) and IgA Binding by Human Epithelial Cells</td>
</tr>
</tbody>
</table>

Continued on page 4
IMMUNOCHEMISTRY


A. Erdei
C. Geisler, J. Scholler, M. A. Wahli, B. Rubin, and A. Weiss
S. L. Gleason, P. Gearhart, N. R. Rose, and R. C. Kuppers
M. H. Holguin, C. B. Kurtz, C. J. Parker, J. J. Weis, and J. H. Weis
R. M. Horton, W. H. Hildebrand, J. M. Martinko, and L. R. Pease
T. Liegler, J. Alexander, P. Cresswell, I. Goldfine, and R. S. Goodenow
T. Mizuochi, J. Hamako, M. Nose, and K. Titani
A. Sette, J. Sidney, M. Albertson, C. Miles, S. M. Colon, T. Pedrazzini, A. G. Lamont, and H. M. Grey
C. Wofsy and B. Goldstein

1745 Mouse IgA Fc Receptor on CD3+ T Cells: Molecular Forms of IgA That Bind to a 38-kDa FcαR Protein and Development of an Anti-FcαR Antiserum

1754 C1q Receptor on Murine Cells

1761 Association of the Human CD3-ζ Chain with the αβ-T Cell Receptor/CD3 Complex: Clues from a T Cell Variant with a Mutated T Cell Receptor-α Chain

1768 Autoantibodies to Thyroglobulin Are Encoded by Diverse V-Gene Segments and Recognize Restricted Epitopes

1776 Loss of Human CR1- and Murine Crry-Like Exons in Human CR2 Transcripts Due to CR2 Gene Mutations

1782 Structural Analysis of H-2K' and H-2K' by Using H-2K Locus-Specific Sequences

1788 An Analysis of Insulin Receptor Expression and Binding on MHC Class I Positive and Negative Human Lymphoblastoid Cells

1794 Structural Changes in the Oligosaccharide Chains of IgG in Autoimmune MRL/Mp-lpr/lpr Mice

1799 Characterization of the Specificity of Peptide Binding to Four DR Haplotypes

1809 A Novel Approach to Generation of High Affinity Class II-Binding Peptides

1814 Cross-Linking of FCγ Receptors and Surface Antibodies: Theory and Application

IMMUNOPHARMACOLOGY

D. H. Broide, C. M. Smith, and S. I. Wasserman
D. Dexter, J. B. Rubins, E. C. Manning, L. Khachatrian, and B. F. Dickey
Y. Fukuoka and T. E. Hugli
S. J. Martin, S. V. Lennon, A. M. Bonham, and T. G. Cotter
B. F. Ramos, R. Qureshi, K. M. Olsen, and B. A. Jakschik
D. J. Schrier, M. E. Lesch, C. Wright, and R. B. Gilbertsen
M. Takagi, K. Koike, and T. Nakahata

1826 Serotonin-Activated Signal Transduction via Serotonin Receptors on Jurkat Cells

1832 IL-3 Augments Adhesiveness for Endothelium and CD11b Expression in Human Basophils but Not Neutrophils

1838 Mast Cells and Pulmonary Fibrosis: Identification of a Histamine Releasing Factor in Bronchoalveolar Lavage Fluid

1845 Compartmentalization of Low Molecular Mass GTP-Binding Proteins among Neutrophil Secretory Granules

1851 Anaphylatoxin Binding and Degradation by Rat Peritoneal Mast Cells: Mechanisms of Degranulation and Control

1859 Induction of Apoptosis (Programmed Cell Death) in Human Leukemic HL-60 Cells by Inhibition of RNA or Protein Synthesis

1868 The Importance of Mast Cells for the Neutrophil Influx in Immune Complex-Induced Peritonitis in Mice

1874 The Antiinflammatory Effects of Adenosine Receptor Agonists on the Carrageenan-Induced Pleural Inflammatory Response in Rats

1880 Antiproliferative Effect of IFN-γ on Proliferation of Mouse Connective Tissue-Type Mast Cells

Continued on page 5
Continued from page 4

P. Valent, J. Besemer, K. Kishi, R. Kaltenbrunner, B. Kuhn, D. Maurer, K. Lechner, and P. Bettelheim
J. G. van de Winkel, M. Jansze, and P. J. A. Capel
J. A. Warner and D. W. MacGlashan, Jr.
R. Welbourn, G. Goldman, L. Kobzik, I. Paterson, C. R. Valeri, D. Shepro, and H. B. Hechtman

1885 IL-3 Promotes Basophilic Differentiation of KU812 Cells through High Affinity Binding Sites

1890 Effect of Protease Inhibitors on Human Monocyte IgG Fc Receptor II: Evidence that Serine Esterase Activity Is Essential for FcγRII-Mediated Binding

1897 Signal Transduction Events in Human Basophils: A Comparative Study of the Role of Protein Kinase C in Basophils Activated by Anti-IgE Antibody and Formyl-Methionyl-Leucyl-Phenylalanine

1906 Neutrophil Adherence Receptors (CD18) in Ischemia: Dissociation between Quantitative Cell Surface Expression and Diapedesis Mediated by Leukotriene B₄

MICROBIAL IMMUNOLOGY

G.-E. Kwan-Lim and R. M. Mai
1912 MHC- and Non-MHC-Restricted Recognition of Filarial Surface Antigens in Mice Transplanted with Adult Brugia malayi Parasites

M. Nain, F. Hinder, J.-H. Gong, A. Schmidt, A. Bender, H. Sprenger, and D. Gemsa
1921 Tumor Necrosis Factor-α Production of Influenza A Virus-Infected Macrophages and Potentiating Effect of Lipopolysaccharides

W. C. Yang, R. M. Hesselton, and J. L. Sullivan
1929 Immune Responses to Herpesvirus sylviilagus Infection in Cottontail Rabbits

MOLECULAR BIOLOGY • MOLECULAR GENETICS

T. Guillaume, D. B. Rubinstein, F. Young, L. Tucker, T. Lotenberg, R. S. Schwartz, and K. J. Barrett
1934 Individual V₄ Genes Detected with Oligonucleotide Probes from the Complementarity-Determining Regions

1946 Class II Genes of Miniature Swine. IV. Characterization and Expression of Two Allelic Class II DQB cDNA Clones

R. Kay, F. Takei, and R. K. Humphries
1952 Expression Cloning of a cDNA Encoding M1/69-J11d Heat-Stable Antigens

S. Sartoris, M. T. Scupoli, L. Scarpellino, F. Paola, M. Jotterand-Bellomo, G. Tridente, and R. S. Accolla
1960 Inducible and Constitutive MHC Class II Gene Expression: Distinct Tissue-Specific Genetic Controls

M. Tanabe, M. Minami, K. Kano, and M. Takiguchi
1968 The Allorecognition of H-2Kᵇ-Specific CD4⁺CD₈⁻ T Cell Hybridomas Is Influenced by the Substitution at Residue 256 of MHC Class I Molecules

TUMOR IMMUNOLOGY

Y. Luo and B. K. Seon
1974 Marked Difference in the in Vivo Antitumor Efficacy between Two Immunotoxins Targeted to Different Epitopes of Common Acute Lymphoblastic Leukemia Antigen (CD10): Mechanisms Involved in the Differential Activities of Immunotoxins

D. H. Lynch and R. E. Miller
1983 Induction of Murine Lymphokine-Activated Killer Cells by Recombinant IL-7

S. Sugawara, M. Nowicki, S. Xie, H.-J. Song, and G. Dennert
1991 Effects of Stress on Lysability of Tumor Targets by Cytotoxic T Cells and Tumor Necrosis Factor

Announcements

1999

Author Index

2000