Contents

CELLULAR IMMUNOLOGY

J. A. Byrne, J. L. Butler, and M. D. Cooper 3249 Differential Activation Requirements for Virgin and Memory T Cells
J. H. Chace and D. W. Scott 3258 Activation Events in Hapten-Specific B Cells from Tolerant Mice
M. Iwata and K. Ishizaka 3270 Construction of Antigen-Specific Suppressor T Cell Hybridomas from Spleen Cells of Mice Primed for the Persistent IgE Antibody Formation
T. Kakiuchi, J. Mizuguchi, and H. Nariuchi 3278 Molecular Analysis of the Dissociation between IL-2 Production and Proliferation in a Response of a T Cell Clone to the Antigen Presented by B Cells
K. Kosmatopoulos, D. Scott-Aigara, and O. Halle-Panenko 3285 Specific Inhibition of Hybrid Resistance in F1 Hybrid Mice Pretreated with Parent-Strain Spleen Cells. II. Evidence for an Hh-1 Antigen-Specific Toleration
C. Nagler-Anderson, C. R. Verret, A. A. Firmenich, M. Berne, and H. N. Eisen 3299 Resistance of Primary CD8+ Cytotoxic T Lymphocytes to Lysis by Cytotoxic Granules from Cloned T Cell Lines
M. Ogasawara, K. Iwabuchi, R. A. Good, and K. Onoe 3306 Bone Marrow Cells from Allogeneic Bone Marrow Chimeras Inhibit the Generation of Cytotoxic Lymphocyte Responses Against both Donor and Recipient Cells
J. Puri and Y. Factorovich 3313 Selective Inhibition of Antigen Presentation to Cloned T Cells by Protease Inhibitors
R. E. Schwarz and J. C. Hiscrodt 3318 The Expression and Functional Involvement of Laminin-Like Molecules in Non-MHC Restricted Cytotoxicity by Human Leu-19+/CD3- Natural Killer Lymphocytes
M. T. Sweetser, V. L. Bracicale, and T. J. Bracicale 3324 Class I MHC Restricted Recognition of Cells Expressing a Gene Encoding a 41 Amino Acid Product of the Influenza Hemagglutinin
R. L. O'Brien, P. Marrack, U. Storb, and J. W. Kappler 3335 B Cells Expressing Ig Transgenes Respond to a T-Dependent Antigen Only in the Presence of 1a-Compatible T Cells
R. L. Fairchild, R. T. Kubo, and J. W. Moorhead 3342 Soluble Factors in Tolerance and Contact Sensitivity to 2,4-Dinitro-Fluorobenzene in Mice. IX. A Monoclonal T Cell Suppressor Molecule is Structurally and Serologically Related to the a/β T Cell Receptor

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

M. G. Cleveland, C. R. Annable, and G. R. Klimpel 3349 In Vivo and In Vitro Production of IFN-β and -γ during Graft vs. Host Disease

Continued on page 4
Continued from page 3

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3357</td>
<td>Characterization of Human Peripheral Lymphocytes Expressing the CD3γ/β-Complex with Anti-Receptor Monoclonal Antibodies</td>
</tr>
<tr>
<td>3361</td>
<td>Regulation of Antibody Production by Helper T Cell Clones in Experimental Autoimmune Myasthenia Gravis</td>
</tr>
<tr>
<td>3370</td>
<td>Allogeneic MHC Antigen Requirements for Lupus-Like Autoantibody Production and Nephritis in Murine Graft-Host Disease</td>
</tr>
<tr>
<td>3377</td>
<td>Lethal Graft-vs.-Host Disease Induced by a Class II MHC Antigen Only Disparity is not Mediated by Cytotoxic T Cells</td>
</tr>
</tbody>
</table>

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3383</td>
<td>Effects of Granulocyte-Macrophage Colony-Stimulating Factor and Colony-Stimulating Factor-1 on the Proliferation and Differentiation of Murine Alveolar Macrophages</td>
</tr>
<tr>
<td>3391</td>
<td>IL-1 Induced Adhesion of Polymorphonuclear Leukocytes to Cultured Human Endothelial Cells. Role of Platelet-Activating Factor</td>
</tr>
<tr>
<td>3398</td>
<td>Pre-exposure of Human B Cells to Recombinant IL-1 Enhances Subsequent Proliferation</td>
</tr>
<tr>
<td>3405</td>
<td>The Effect of Human Recombinant Macrophage Colony-Stimulating Factor (CSF-1) on the Murine Mononuclear Phagocyte System in vivo</td>
</tr>
<tr>
<td>3410</td>
<td>Tumor Necrosis Factor-α and β (Lymphotoxin) Stimulate the Production of Granulocyte-Macrophage Colony-Stimulating Factor, Macrophage Colony-Stimulating Factor, and IL-1 in Vivo</td>
</tr>
<tr>
<td>3416</td>
<td>IL-4 Induces Loss of B Lymphocyte FcγR II Ligand Binding Capacity</td>
</tr>
<tr>
<td>3422</td>
<td>Limiting Dilution Analysis of TNF Producing Cells in C57Bl/6J Mice</td>
</tr>
<tr>
<td>3429</td>
<td>Agents that Mimic Antigen Receptor Signaling Inhibit Proliferation of Cloned Murine T Lymphocytes Induced by IL-2</td>
</tr>
<tr>
<td>3438</td>
<td>Expression of CD5 Regulates Responsiveness to IL-1</td>
</tr>
<tr>
<td>3445</td>
<td>Characterization of T Helper and 2 Cell Subsets in Normal Mice. Helper T Cells Responsible for IL-4 and IL-5 Production are Present as Precursors that Require Priming before they Develop into Lymphokine-Secreting Cells</td>
</tr>
<tr>
<td>3456</td>
<td>Lymphokine-Independent Induction of Macrophage Membrane IL-1 by Autoreactive T Cells Recognizing either Class I or Class II MHC Determinants</td>
</tr>
</tbody>
</table>

**IMMUNOCHEMISTRY**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3463</td>
<td>Characterization of Protein Kinase C and its Isoforms in Human T Lymphocytes</td>
</tr>
<tr>
<td>3471</td>
<td>Characterization of Granzymes A and B Isolated from Granules of Cloned Human Cytotoxic T Lymphocytes</td>
</tr>
<tr>
<td>3478</td>
<td>Functional and Biochemical Analysis of CD16 Antigen on Natural Killer Cells and Granulocytes</td>
</tr>
<tr>
<td>3486</td>
<td>Study of the Epitope Structure of Purified Dac g I and Lol p I, the Major Allergens of Dactylis Glomerata and Lolium Perenne Pollens, Using Monoclonal Antibodies</td>
</tr>
<tr>
<td>3492</td>
<td>An 80 to 85 Kilodalton Human Phosphoglycoprotein Associated with Cell Activation</td>
</tr>
<tr>
<td>3498</td>
<td>Is a Natural Ligand of the T Lymphocyte CD2 Molecule a Sulfated Carbohydrate?</td>
</tr>
</tbody>
</table>

Continued on page 5
Identification and Partial Characterization of Human Platelet C1q Binding Sites
Possible Association between IL-2 Receptors and Class I HLA Molecules on T Cells
Human Monoclonal Anti-idiotypic Antibodies. I. Establishment of Immortalized Cell Lines from a Tumor Patient Treated with Mouse Monoclonal Antibodies
The Physical-Chemical Characterization and Biologic Activity of Serum Released Lipopolysaccharides
Tyrosine Phosphorylation of the Human T Cell Antigen Receptor \( \gamma \) Chain: Activation Via CD3 but Not CD2
Phagocytosis of Serum-Opsonized Zymosan Down-Regulates the Expression of CR3 and FcRI in the Membrane of Human Monocytes

**IMMUNOPHARMACOLOGY**

The In Vivo Production of Peptide Leukotrienes after Pulmonary Anaphylaxis in the Rat
Group B Streptococci Inhibit the Chemotactic Activity of the Fifth Component of Complement
Cholera Toxin Discriminates Between Murine T Lymphocyte Proliferation Stimulated by Activators of Protein Kinase C and Proliferation Stimulated by IL-2: Possible Role for Intracellular AMP
Substance P, Neurokinin A, and Neurokinin B Induce Generation of IL-1-like Activity in P388D1 Cells: Possible Relevance to Arthritic Disease
Human C5a and C5a des Arg Exhibit Chemotactic Activity for Fibroblasts
Neutrophils and Mast Cells. Comparison of Neutrophil-Derived Histamine Releasing Activity with other Histamine Releasing Factors

**MICROBIAL IMMUNOLOGY**

Molecular Analysis of the Gene Encoding the Major Surface Antigen of Toxoplasma gondii
Mapping the Immuno-Determinants of the Complete Streptococcal M6 Protein Molecule: Identification of an Immuno-dominant Region
Induction of Antigen-Specific Parasiticidal Cytotoxic T Cell Splenocytes by a Major Membrane Protein (P30) of Toxoplasma gondii
Protection of Mice against Japanese Encephalitis Virus by Passive Administration with Monoclonal Antibodies
Abnormal Regulation of IFN-\( \alpha \), -\( \beta \), and -\( \gamma \) Expression in Mads, a Murine Retrovirus-Induced Immuno-Deficiency Syndrome
Comparative Immunogenicity of Hepatitis B Virus Core and E Antigens

Continued on page 6
MOLECULAR BIOLOGY • MOLECULAR GENETICS

G. V. Borzillo, M. D. Cooper, L. F. Bertoil, A. Landay, R. Castleberry, and P. D. Burrows
L. J. Kienker, J. M. Korostoff, and M. P. Cancro

J. E. Mole, B. L. Beaulieu, C. A. Geheran, J. A. Carnazza, and J. K. Anderson
F. M. Tacchini-Cottier and P. P. Jones

3625 Lineage and Stage Specificity of Isotype Switching in Humans
3634 Patterns of Ig V Region Expression among Neonatal Hemagglutinin-Responsive B Cells: Evidence for Non-Random V, Gene Representation during Later Stages of Development
3642 Isolation and Analysis of Murine Serum Amyloid P Component cDNA Clones
3647 Defective E,, Expression in Three Mouse H-2 Haplotypes Results from Aberrant RNA Splicing
3654 Molecular Basis for the Defective Expression of the Mouse E8w17 Gene

TUMOR IMMUNOLOGY

A. Sampson-Johannes and J. A. Carlin

3662 Bispecific F(AB'y)2 antibody for the Delivery of Saporin in the Treatment of Lymphoma
3671 Activity, Augmentation of Natural Killer Induction of IFN and Development of Tumor Immunity During the Successful Treatment of Established Murine Renal Cancer Using Flavone Acetic Acid and IL-2
3680 Enhancement of Human Monocyte Tumoricidal Activity by Recombinant M-CSF

Announcements 3687
Author Index 3688