Contents

CELLULAR IMMUNOLOGY

C. N. Berger and C. J. Epstein 389 Delayed Thymocyte Maturation in the Trisomy 16 Mouse Fetus
J. A. Cole, S. A. McCarthy, M. A. Rees, S. O. Sharrow, and A. Singer 397 Cell Surface Comodulation of CD4 and T Cell Receptor by Anti-CD4 Monoclonal Antibody
M. Fultz, J. Carman, F. D. Finkelman, and J. J. Mond 403 Neonatal Suppression with Anti-Ia Antibody. III. In Vivo Responses to the Type 2 Antigen TNP-Ficoll
A. B. Hahn and M. J. Soloski 407 Anti-Qa-2-Induced T Cell Activation: The Parameters of Activation, the Definition of Mitogenic and Nonmitogenic Antibodies, and the Differential Effects on CD4+ vs CD8+ T Cells
H. Ishikura, S. Jayaraman, V. Kuchroo, B. Diamond, S. Saito, and M. E. Dorf 414 Functional Analysis of Cloned Macrophage Hybridomas. VII. Modulation of Suppressor T Cell-Inducing Activity
B. R. Ksander and J. W. Streilein 420 Stable Association of Processed Antigen with Antigen-Presenting Cell Membranes
H.-Y. Lei, K.-J. Huang, C.-L. Shen, and J.-L. Huang 426 Recovery of Activated Cytotoxic T Cells from Minor H Incompatible Tumor Graft Rejection Sites
T. R. Malek, E. M. Shevach, and K. M. Danis 432 An Antigen-Specific Hypersensitivity Which Does Not Fit into Traditional Classification of Hypersensitivity
F. L. Norton, C. B. Davis, P. P. Jones, and J. W. Goodman 439 Activation of T Lymphocytes through the LY-6 Pathway Is Defective in a Strain Mice
X. Paliard, H. Yssel, D. Blanchard, J. A. Waitz, J. E. deVries, and H. Spits 446 Arsonate-Specific Murine T Cell Clones. V. Antigen Presentation by L Cells Transfected with Normal and Mutant Class II Genes
G. L. Warner, S. Davies, and D. W. Scott 452 Antigen Specific and MHC Nonrestricted Cytotoxicity of T Cell Receptor αβ+ and γδ+ Human T Cell Clones Isolated in IL-4

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

B. L. Clarke and K. L. Bost 464 Differential Expression of Functional Adrenocorticotropic Hormone Receptors by Subpopulations of Lymphocytes
K. A. Clouse, P. B. Robbins, B. Fernie, J. M. Ostrove, and A. S. Fauci 470 Viral Antigen Stimulation of the Production of Human Monokines Capable of Regulating HIV-1 Expression
C. D. Howell, T. Yoder, H. N. Claman, and J. M. Vierling 476 Hepatic Homing of Mononuclear Inflammatory Cells Isolated during Murine Chronic Graft-vs-Host Disease
X. Liang, M. E. Lamm, and J. G. Nedrud 484 Cholera Toxin as a Mucosal Adjuvant: Glutaraldehyde Treatment Dissociates Adjuvanticity from Toxicity
T. Maier, J. H. Holda, and H. N. Claman 491 Murine Natural Suppressor Cells in the Newborn, in Bone Marrow, and after Cyclophosphamide: Genetic Variations and Dependence on IFN-γ
N. W. Pearce, A. Spinelli, K. E. Gurley, S. E. Dorsch, and B. M. Hall 499 Mechanisms Maintaining Antibody-Induced Enhancement of Allografts. II. Mediation of Specific Suppression by Short Lived CD4+ T Cells

Continued on page 4
Continued from page 3

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

I. Barasoain, A. Protolbés, J. F. Aramburu, and J. M. Rojo

507 Antibodies against a Peptide Representative of a Conserved Region of Human IFN-α: Differential Effects on the Antiviral and Antiproliferative Effects of IFN

W. Falk, D. N. Mannel, H. Darjes, and P. H. Krammer

513 IL-1 Induces High Affinity IL-2 Receptor Expression of CD4+8- Thymocytes


518 A New Murine CD4+ T Cell Subset with an Unrestricted Cytokine Profile

IMMUNOCHEMISTRY


526 IgG3 Is the Major Source of Cryoglobulins in Mice

D. Atar, T. Dyberg, B. Michelsen, A. Karlsen, H. Kofod, J. Malvig, and Å. Lernmark

533 Site-Specific Antibodies Distinguish Single Amino Acid Substitutions in Position 57 in HLA-DQ β-Chain Alleles Associated with Insulin-Dependent Diabetes

A. C. Buenafe, F. F. Makowski, and M. B. Rittenberg

539 Molecular Analysis and Fine Specificity of Antibodies against an Organophosphorus Hapten


546 Transcellular Transport and Membrane Insertion of the C5b-9 Membrane Attack Complex of Complement by Glomerular Epithelial Cells in Experimental Membranous Nephropathy

O. R. Laine and A. F. Esser

553 Identification of the Discontinuous Epitope in Human Complement Protein C9 Recognized by Anti-Melittin Antibodies

N. Shimojo, E. P. Cowan, V. H. Engelhard, W. L. Maloy, J. E. Coligan, and W. E. Biddison

558 A Single Amino Acid Substitution in HLA-A2 Can Alter the Selection of the Cytotoxic T Lymphocyte Repertoire That Responds to Influenza Virus Matrix Peptide 55-73


565 The Fc Binding Site for Streptococcal Protein G Is in the Cy2-Cy3 Interface Region of IgG and Is Related to the Sites That Bind Staphylococcal Protein A and Human Rheumatoid Factors


571 Proteolysis Induces Increased Binding Affinity of the Monocyte Type II FcR for Human IgG

IMMUNOPHARMACOLOGY

J. M. Bathon, D. Proud, K. Kraekow, and F. M. Wigley

579 Preincubation of Human Synovial Cells with IL-1 Modulates Prostaglandin E2 Release in Response to Bradykinin

E. Bonvini, K. E. DeBell, M. A. Kolber, T. Hoffman, R. J. Hodes, and M. S. Taplits

587 Hydrolysis of Inositol Phospholipids Induced by Stimulation of the T Cell Antigen Receptor Complex in Antigen-Specific, Murine Helper T Cell Clones: Requirement for Exogenous Calcium

J. de la Harpe and C. F. Nathan

596 Adenosine Regulates the Respiratory Burst of Cytokine-Triggered Human Neutrophils Adherent to Biologic Surfaces

N. E. Goeken, T. S. Staggs, and Z. K. Bellas

603 Monocyte Suppressor Factor Is Plasminogen Activator Inhibitor Inhibition of Membrane Bound but Not Soluble IL-1

M. W. Peterson, D. Gruenhaupt, and D. M. Shasby

609 Neutrophil Cathepsin G Increases Calcium Flux and Inositol Polyphosphate Production in Cultured Endothelial Cells

Continued on page 5
CR1, the C3b Receptor, Mediates Binding of Infective *Leishmania major* Metacyclic Promastigotes to Human Macrophages

Induction of Cell Surface Expression of HLA Antigens by Human IFN-γ Encoded by Recombinant Vaccinia Virus

Effects of Treatment with IL-2 Receptor Specific Monoclonal Antibody in Mice: Inhibition of Cytotoxic T Cell Responses but Not of T Helper Mice

Role of the Immune Response in Sindbis Virus-Induced Paralysis of SJL/J Mice

Characterization of Allelic κ-V Region Genes in Inbred Strains of Mice

The Molecular Basis of Granuloma Formation in Schistosomiasis. III. In Vivo Effects of a T Cell-Derived Suppressor Effector Factor and IL-2 on Granuloma Formation

Cell-Mediated Immune Responses to Vaccine Peptides Derived from the Circumsporozoite Protein of *Plasmodium falciparum*

Characterization of the T Cell-Mediated Cellular Cytotoxicity during Acute Infectious Mononucleosis

Enhancement of Human Monocyte Function against *Candida albicans* by the Colony-Stimulating Factors (CSF): IL-3, Granulocyte-Macrophage-CSF, and Macrophage-CSF

Expression of the Major Surface Glycoprotein of *Leishmania donovani* chagasi in Virulent and Attenuated Promastigotes

Analysis of Variable Region Genes Encoding a Human Anti-DNA Antibody of Normal Origin: Implications for the Molecular Basis of Human Autoimmune Responses

Absence of Ig V Region Gene Somatic Hypermutation in Advanced Burkitt’s Lymphoma

Ig V Region Gene Expression in Small Lymphocytic Lymphoma with Little or No Somatic Hypermutation

Polymorphisms in Human H Chain V Region Genes from the VIII Gene Family

Isolation of cDNAs Encoding the CD19 Antigen of Human and Mouse B Lymphocytes: A New Member of the Immunoglobulin Superfamily

The Immunosuppressant FK506 Selectively Inhibits Expression of Early T Cell Activation Genes

Identification of a Human Natural Killer Cell Target Cell Antigen with Monoclonal Antibodies

Induction of Endogenous Cytokine-mRNA in Circulating Peripheral Blood Mononuclear Cells by IL-2 Administration to Cancer Patients

Continued on page 6
**Letters to the Editor**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>740</td>
<td>Lymphocytes Generated by In Vivo Priming and In Vitro Sensitization Demonstrate Therapeutic Efficacy against a Murine Tumor That Lacks Apparent Immunogenicity</td>
</tr>
<tr>
<td>749</td>
<td>Feline Cytotoxic Large Granular Lymphocytes Induced by Recombinant Human IL-2</td>
</tr>
</tbody>
</table>

**Announcements**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>755</td>
<td></td>
</tr>
</tbody>
</table>

**Erratum**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>757</td>
<td></td>
</tr>
</tbody>
</table>

**Author Index**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>761</td>
<td></td>
</tr>
<tr>
<td>770</td>
<td></td>
</tr>
</tbody>
</table>