Contents

CELLULAR IMMUNOLOGY

S. Aiba and S. I. Katz
2479 The Ability of Cultured Langherhans Cells to Process and Present Protein Antigens Is MHC-Dependent

2488 Regulation of Expression of CD27, A T Cell-Specific Member of a Novel Family of Membrane Receptors

L. Di Fabrizio, Y. Kimura, R. Ware, L. Rogozinski, and L. Chess
2495 Specific Triggering of γ,δ T Cells by K562 Activates the γ,δ T Cell Receptor and May Regulate Natural Killer-Like Function

T. Herrmann, P. Romero, S. Sartoris, F. Paiola, R. S. Accolla, J. L. Maryanski, and H. R. MacDonald
2504 Staphylococcal Enterotoxin-Dependent Lysis of MHC Class II+ Target Cells by Cytolytic T Lymphocytes

S. Kitagawa, S. Sato, T. Azuma, J. Shinizu, T. Hamoaka, and H. Fujiiara
2513 Heterogeneity of CD4+ T Cells Involved in Anti-Allo-Class I H-2 Immune Responses: Functional Discrimination between the Major Proliferating Cells and Helper Cells Assisting Cytotoxic T Cell Responses

H. Makni, J. S. Malter, J. C. Reed, S. Nobuhiko, G. Lang, D. Kioussis, G. Trinchieri, and M. Kamoun
2522 Reconstitution of an Active Surface CD2 by DNA Transfer in CD2−CD3− Jurkat Cells Facilitates CD3-T Cell Receptor-Mediated IL-2 Production

P. Nortamo, R. Salcedo, T. Timonen, M. Patarroyo, and C. G. Gahmberg
2530 A Monoclonal Antibody to the Human Leukocyte Adhesion Molecule Intercellular Adhesion Molecule-2: Cellular Distribution and Molecular Characterization of the Antigen

E. Payer, A. Elbe, and G. Stingl
2536 Circulating CD33+/T Cell Receptor Vγ3+ Fetal Murine Thymocytes Home to the Skin and Give Rise to Proliferating Dendritic Epidermal T Cells

S. Tohma and P. E. Lipsky
2544 Analysis of the Mechanisms of T Cell-Dependent Polyclonal Activation of Human B Cells: Induction of Human B Cell Responses by Fixed Activated T Cells

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

2553 Aspirin-Like Drugs Prime Human T Cells: Modulation of Intracellular Calcium Concentrations

2560 HLA-DQ-Restricted CD4+ T Cells Specific to Streptococcal Antigen Present in Low but not in High Responders

J. J. Kenny, A. M. Stall, D. G. Sieckmann, M. C. Lamers, F. D. Finkelman, L. Finch, and D. L. Longo
2568 Receptor-Mediated Elimination of Phosphocholine-Specific B Cells in X-Linked Immune-Deficient Mice

G. M. Orloff, S. L. Orloff, M. S. Kennedy, P. J. Maddon, and J. S. McDougal
2578 Penetration of CD4+ T Cells by HIV-1: The CD4 Receptor Does not Internalize with HIV, and CD4-Related Signal Transduction Events Are not Required for Entry

R. A. Otten and M. D. P. Boyle
2588 The Mitogenic Activity of Type III Bacterial Ig Binding Proteins (Protein G) for Human Peripheral Blood Lymphocytes Is not Related to Their Ability to React with Human Serum Albumin or IgG

Continued on page 4
Continued from page 3

M. Rodriguez, C. Nickerson, A. Patick, and C. S. David
C. S. Via
G. A. Wilbanks and J. W. Streliein

2596 Expression of Human HLA-B27 Transgene Alters Susceptibility to Murine Theliier's Virus-Induced Demyelination
2603 Kinetics of T Cell Activation in Acute and Chronic Forms of Murine Graft-Versus-Host Disease
2610 Studies on the Induction of Anterior Chamber-Associated Immune Deviation (ACAI'D); Evidence That an Antigen-Specific, ACAID-Inducing, Cell-Associated Signal Exists in the Peripheral Blood

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

C. Libert, S. Van Bladel, P. Brouckaert, A. Shaw, and W. Fiers
A. Marusić, J. F. Kalinowski, J. R. Harrison, M. Centrella, L. G. Raisz, and J. A. Lorenzo
Y. Nishimura, H. Mayumi, Y. Tomita, M. Eto, T. Maeda, and K. Nomoto
J. H. Shieh, R. H. F. Peterson, and M. A. S. Moore
C. van Kooten, I. Rensink, D. Pascual-Salcedo, R. van Oers, and L. Aarden

2618 Role of Glycosaminoglycans in the Regulation of T Cell Proliferation Induced by Thymic Stroma-Derived T Cell Growth Factor
2625 Involvement of the Liver, but not of IL-6, in IL-1-Induced Desensitization to the Lethal Effects of Tumor Necrosis Factor
2633 Effects of Transforming Growth Factor-β and IL-1α on Prostaglandin Synthesis in Serum-Derived Osteoblastic Cells
2639 Recombinant Human Granulocyte Colony-Stimulating Factor Improves the Compromised State of Recipient Mice without Affecting the Induction of Specific Tolerance in the Cyclophosphamide-Induced Tolerance System
2648 Modulation of Granulocyte Colony-Stimulating Factor Receptors on Murine Peritoneal Exudate Macrophages by Tumor Necrosis Factor-α
2654 Monokine Production by Human T Cells; IL-1α Production Restricted to Memory T Cells

**IMMUNOCHEMISTRY**

L. J. N. Cooper, J. C. Schimenti, D. D. Glass, and N. S. Greenspan
P. F. Fehlner, L. Kochoumian, and T. P. King
A. A. Rostagno, B. Frangione, and L. Gold
A. T. Waytes, A. Malbran, D. A. Bobak, and L. F. Fries

2659 H Chain C Domains Influence the Strength of Binding of IgG for Streptococcal Group A Carbohydrate
2664 Murine IgE and IgG Responses to Melittin and Its Analogs
2671 Affinity Labeling of the Membrane Protein-Binding Component of Human Polymorphonuclear Leukocyte Receptors for Leukotriene B4
2678 Epitopes of the p70 and p80 (Ku) Lupus Autoantigens
2687 Biochemical Studies on the Interaction of Fibronectin with Ig1
2694 Pre-Ligation of CR1 Enhances IgG-Dependent Phagocytosis by Cultured Human Monocytes

**IMMUNOPHARMACOLOGY**

C. Jobin, C. Kreis, J. Gauthier, J. Letarte, and A. D. Beauhieu
D. Kinzer and V. Lehmann

2701 Differential Synthesis of 5-Lipoxygenase in Peripheral Blood and Synovial Fluid Neutrophils in Rheumatoid Arthritis
2708 Extracellular ATP and Adenosine Modulates Tumor Necrosis Factor-Induced Lysis of L929 Cells in the Presence of Actinomycin D

Continued on page 5
Continued from page 4

H. Kita, R. I. Abu-Ghazaleh, G. J. Gleich, and R. T. Abraham 2712
C. D. Mills

S. D. Shapiro, E. J. Campbell, D. K. Kobayashi, and H. G. Welgus 2724
L. Zhang, D. English, and B. R. Andersen

Regulation of Ig-Induced Eosinophil Degranulation by Adenosine 3',5'-Cyclic Monophosphate

Molecular Basis of "Suppressor" Macrophages: Arginine Metabolism via the Nitric Oxide Synthetase Pathway

Dexamethasone Selectively Modulates Basal and Lipopolysaccharide-Induced Metalloproteinase and Tissue Inhibitor of Metalloproteinase Production by Human Alveolar Macrophages

Activation of Human Neutrophils by Mycobacterium tuberculosis-Derived Sulfolipid-1

MICROBIAL IMMUNOLOGY

B. K. Al-Ramadi, M. A. Brodkin, D. M. Mosser, and T. K. Eisenstein
T. Iinoue, Y. Yoshikai, G. Matsuzaki, and K. Nonoto
P. M. Kaye, A. J. Curry, and J. M. Blackwell
J. Langhorne and B. Simon-Haarhaus
L. Marodi, H. M. Korchak, and R. B. Johnston, Jr.
S. R. Riddell, M. Rabin, A. P. Geballe, W. J. Britt, and P. D. Greenberg

Immunosuppression Induced by Attenuated Salmonella: Evidence for Mediation by Macrophage Precursors
Leishmania donovani Lipophosphoglycan Selectively Inhibits Signal Transduction in Macrophages
Early Appearing γ/δ-Bearing T Cells during Infection with Calmette Guérin Bacillus
Differential Production of Th1- and Th2-Derived Cytokines Does not Determine the Genetically Controlled or Vaccine Induced Rate of Cure in Murine Visceral Leishmaniasis
Differential T Cell Responses to Plasmodium chabaudi chabaudi in Peripheral Blood and Spleens of C57BL/6 Mice during Infection
Immunologic and Structural Characterization of the Dominant 6- and 73-kDa Antigens of Borrelia burgdorferi
Mechanisms of Host Defense against Candida Species. I. Phagocytosis by Monocytes and Monocyte-Derived Macrophages
Mechanisms of Host Defense against Candida Species. II. Basis for the Killing of Candida by Mononuclear Phagocytes
Class I MHC-Restricted Cytotoxic T Lymphocyte Recognition of Cells Infected with Human Cytomegalovirus Does not Require Endogenous Viral Gene Expression

MOLECULAR BIOLOGY • MOLECULAR GENETICS

T. R. Bauer, Jr. and B. Blomberg
N. S. Bora, T. W. Post, and J. P. Atkinson
P. Enghier, P. Roth, J. Y. Kim, and U. Storb
S. Neudorf, M. Jones, S. Parker, R. Papes, and D. Lattier
S. Rath, A. Nisonoff, E. Selsing, and J. M. Durdi
K. K. Telavartti, J. L. Fishback, and J. S. Hunt
M. Zouali and J. Theze

Ig Gene Rearrangements on Individual Alleles of Abelson Murine Leukemia Cell Lines from (C57BL/6 × BALB/c) F1 Fetal Livers
The Human λ L Chain Ig Locus: Recharacterization of JCD6 and Identification of a Functional JC7
Membrane Cofactor Protein of the Complement System: A HindIII Restriction Fragment Length Polymorphism that Correlates with the Expression Polymorphism
Factors Affecting the Rearrangement Efficiency of an Ig Test Gene
Phorbol Esters Down-Regulate Transcription and Translation of the CD4 Gene
B Cell Abnormalities Induced by a μ Ig Transgene Extend to L Chain Isotype Usage
Analysis of HLA-G mRNA in Human Placental and Extraplacental Membrane Cells by in Situ Hybridization
Probing Vh Gene-Family Utilization in Human Peripheral B Cells by in Situ Hybridization

Continued on page 6
<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. J. Berg and R. G. Lynch</td>
<td>2865</td>
<td>Immune Dysfunction in Mice with Plasmacytomas. I. Evidence That Transforming Growth Factor-β Contributes to the Altered Expression of Activation Receptors on Host B Lymphocytes</td>
</tr>
<tr>
<td>W. H. Hamoudi and L. L. Baum</td>
<td>2873</td>
<td>Anti-C-Reactive Protein Inhibits the Calcium-Dependent Stage of Natural Killer Cell Activation</td>
</tr>
<tr>
<td>O. Léger and C. J. Dean</td>
<td>2879</td>
<td>Characterization of Syngeneic Rat Monoclonal Antibodies to The HSN Tumor Using Syngeneic Monoclonal Anti-Idiotopic Antibodies</td>
</tr>
<tr>
<td>Announcement</td>
<td>2887</td>
<td></td>
</tr>
<tr>
<td>Author Index</td>
<td>i</td>
<td></td>
</tr>
</tbody>
</table>