## Contents

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. Groscurth, B.-Y. Qiao, E. R. Podack, and H. Hengartner</td>
<td>Cellular Localization of Perforin 1 in Murine Cloned Cytotoxic T Lymphocytes</td>
<td>2749</td>
</tr>
<tr>
<td>D. P. Huston and G. Tavana</td>
<td>Suppression of Ia-Unrestricted Primary Anti-Qa-1 Cytotoxic T Lymphocyte Responses by Class II Major Histocompatibility Complex-Restricted Cellular Interactions</td>
<td>2753</td>
</tr>
<tr>
<td>D. M. Sahasrabudhe, C. S. McCune, R. W. O'Donnell, and E. C. Henshaw</td>
<td>Inhibition of Suppressor T Lymphocytes (Ts) by Cimetidine</td>
<td>2760</td>
</tr>
<tr>
<td>M. A. Ewoldsen, N. S. Ostlie, and C. M. Warner</td>
<td>Killing of Mouse Blastocyst Stage Embryos by Cytotoxic T Lymphocytes Directed to Major Histocompatibility Complex Antigens</td>
<td>2764</td>
</tr>
<tr>
<td>V. E. Kelley, G. N. Gaulton, and T. B. Strom</td>
<td>Inhibitory Effects of Anti-Interleukin 2 Receptor and Anti-L3T4 Antibodies on Delayed Type Hypersensitivity: The Role of Complement and Epitope Physiology of IgD. VIII. Age-Related Decline in the Capacity to Generate T Cells with Receptors for IgD and Partial Reversal of the Defect with IL 2</td>
<td>2771</td>
</tr>
<tr>
<td>R. F. Colco, S. R. S. Gottesman, G. W. Siskin, and G. J. Thorbecke</td>
<td>CD5 Antibodies Increase Intracellular Ionized Calcium Concentration in T Cells</td>
<td>2782</td>
</tr>
<tr>
<td>C. H. June, P. S. Rabinovitch, and J. A. Ledbetter</td>
<td>CD19 Monoclonal Antibody HD37 Inhibits Anti-Immunoglobulin-Induced B Cell Activation and Proliferation</td>
<td>2793</td>
</tr>
<tr>
<td>A. Pezzutto, B. Dbrken, P. S. Rabinovitch, J. A. Ledbetter, G. Moldenhauer, and E. A. Clark</td>
<td>Cationization of Protein Antigens. II. Alteration of Regulatory Properties</td>
<td>2800</td>
</tr>
<tr>
<td>A. Muckerheide, P. L. Domen, and J. G. Michael</td>
<td>Control of B Cell Proliferation: Arrest of B Cells in Late G1 Underlies Immunosuppression Induced by Plasma Cell Tumors</td>
<td>2805</td>
</tr>
<tr>
<td>J. E. Berman and S. Zolla-Pazner</td>
<td>A Novel Method to Bursectomize Avian Embryos and Obtain Quail → Chick Bursal Chimeras. II. Immune Response of Bursectomized Chicks and Chimeras and Post-Natal Rejection of the Grafted Quail Bursas</td>
<td>2813</td>
</tr>
<tr>
<td>C. Corbel, M. Belo, C. Martin, and N. M. Le Douarin</td>
<td>Antigen Presentation By Hapten-Specific B Lymphocytes. IV. Comparative Ability of B Cells to Present Specific Antigen and Anti-Immunoglobulin Antibody</td>
<td>2822</td>
</tr>
<tr>
<td>A. H. Lichtman, H.-P. Tony, D. C. Parker, and A. K. Abbas</td>
<td>Polyclonal Activation of the Murine Immune System by a Goat Antibody to Mouse IgD. IX. Induction of a Polyclonal IgE Response</td>
<td>2826</td>
</tr>
<tr>
<td>F. D. Finkelman, C. M. Snapper, J. D. Mountz, and I. M. Katona</td>
<td>Human T Cell Clones Use a CD3-Associated Surface Antigen Recognition Structure to Exhibit Both NK-Like and Allogeneic Cytotoxic Reactivity</td>
<td>2831</td>
</tr>
<tr>
<td>T. T. Timonen and R. Pakkanen</td>
<td>T3-T Cell Receptor (Tl) Complex-Independent Activation of T Cells by Wheat Germ Agglutinin</td>
<td>2843</td>
</tr>
<tr>
<td>A. Yachie, D. Hernandez, and R. M. Blaese</td>
<td>Human T Cell Priming in Vivo: A Major Role for B Cells in Presenting Antigen to T Cells in Lymph Nodes</td>
<td>2848</td>
</tr>
</tbody>
</table>

### CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. T. Timonen and R. Pakkanen</td>
<td>T3-T Cell Receptor (Tl) Complex-Independent Activation of T Cells by Wheat Germ Agglutinin</td>
<td>2843</td>
</tr>
<tr>
<td>A. Yachie, D. Hernandez, and R. M. Blaese</td>
<td>Human T Cell Priming in Vivo: A Major Role for B Cells in Presenting Antigen to T Cells in Lymph Nodes</td>
<td>2848</td>
</tr>
</tbody>
</table>

Continued on page 4
Continued from page 3

J. L. Browning and A. Ribolini

T. N. Small, R. W. Knowles, C. Keever, N. A. Kernan, N. Collins, R. J. O'Reilly, B. Dupont, and N. Flomenberg

S. I. Rosenfeld, D. H. Ryan, R. J. Looney, C. L. Anderson, G. N. Abraham, and J. P. Leddy

I. N. Targoff and M. Reichlin


J. W. Thomas, V. J. Virta, and L. J. Nell

J. L. Nixon-Fulton, P. L. Witte, R. E. Tigelbaar, P. R. Bergstresser, and V. Kumar

2857 Interferon Blocks Interleukin 1-Induced Prostaglandin Release from Human Peripheral Monocytes

2864 M241 (CD1) Expression on B Lymphocytes

2869 Human FCγ Receptors: Stable Inter-Donor Variation in Quantitative Expression on Platelets Correlates with Functional Responses

2874 Measurement of Antibody to Jo-1 by ELISA and Comparison to Enzyme Inhibitory Activity

2883 Murine Monoclonal Anti-DNA Antibodies Bind Directly to Glomerular Antigens and Form Immune Deposits

2890 Class-Specific Regulation of Anti-DNA Antibody Synthesis and the Age-Associated Changes in (NZB × NZW)F1, Hybrid Mice

2896 Cell Surface Antigens on Rat Islet Tumors

2902 Lack of Dendritic Thy-1+ Epidermal Cells in Mice with Severe Combined Immunodeficiency Disease

S. B. Mizel, P. L. Kilian, J. C. Lewis, K. A. Paganelli, and R. A. Chizzonite

L. B. Lachman, D. C. Brown, and C. A. Dinarello


T. Noma and J. Yata

T. J. Sayers, I. Macher, J. Chung, and E. Kugler

M. E. Hemler and J. G. Jacobson

2906 The Interleukin 1 Receptor: Dynamics of Interleukin 1 Binding and Internalization in T Cells and Fibroblasts

2913 Growth-Promoting Effect of Recombinant Interleukin 1 and Tumor Necrosis Factor for a Human Astrocytoma Cell Line

2917 Expression of Functional IL-2 Receptors by Lipopolysaccharide and Interferon-γ Stimulated Human Monocytes

2923 Purification and Biochemical Characterization of a Human Autocrine Growth Factor Produced by Epstein-Barr Virus-Transformed B Cells

2929 Establishment of a Human T Cell Hybridoma Cell Line ProducingSuppressor Factor Specific for Anti-Thyroglobulin Antibody Production

2935 The Production of Tumor Necrosis Factor by Mouse Bone Marrow-Derived Macrophages in Response to Bacterial Lipopolysaccharide and a Chemically Synthesized Monosaccharide Precursor

2941 Cell Matrix Adhesion-Related Proteins VLA-1 and VLA-2: Regulation of Expression on T Cells

W. L. Elliott, C. J. Stille, L. J. Thomas, and R. E. Humphreys

S. Wu, T. Yabe, M. Madden, T. L. Saunders, and F. H. Bach


R. Abe, J. Yagi, Y. Asano, and T. Tada

2949 An Hypothesis on the Binding of an Amphipathic, α Helical Sequence in I Chain to the Desetope of Class II Antigens

2953 cDNA Cloning and Sequencing Reveals that the Electrophoretically Constant DR β1 Molecules, as Well as the Variable DR β2 Molecules, from HLA-DR2 Subtypes Have Different Amino Acid Sequences Including a Hypervariable Region for a Functionally Important Epitope

2960 Brain Microvascular Smooth Muscle Expresses Class II Antigens

2964 Epitopes Associated with the MHC Restriction Site of T Cells. I. Selective Expression of Ia Epitopes on H-2-Restricted Helper T Cells

Continued on page 5
Continued from page 4

2. C. Anasetti, P. J. Martin, Y. Morishita, C. C. Badger, L. Weiss, S. I. Rosenfeld, and V. Nussenzweig
3. J.-P. Aubry, C. Peronne, J. Wijdenes, and J. Banchereau
4. D. W. Metzger, V. A. Fried, and V. H. Van Cleave
6. T. Kinoshita, S. I. Rosenfeld, and V. Nussenzweig
7. C. C. Badger, I. D. Bernstein, and J. A. Hansen
8. Y. Morishita, C. C. Badger, I. D. Bernstein, and J. A. Hansen
9. V. A. Fried, and V. H. Van Cleave

IMMUNOPHARMACOLOGY

M. Baniyash, I. Alkalay, and Z. Eshhar
P. D. Zalewski, I. J. Forbes, L. Valente, and N. P. Hurst

M. Baniyash, I. Alkalay, and Z. Eshhar
P. D. Zalewski, I. J. Forbes, L. Valente, and N. P. Hurst

M. Baniyash, I. Alkalay, and Z. Eshhar
P. D. Zalewski, I. J. Forbes, L. Valente, and N. P. Hurst

MICROBIAL IMMUNOLOGY

E. D. Kilbourne, C. P. Cerini, M. W. Khan, J. W. Mitchell, Jr., and P. L. Ogra
M. S. Halpern and S. B. McMahon
M.-T. Lee and M. K. Warren
G. J. Weil and F. Liptis
D. S. Silberstein, A. J. Dessein, P. P. Elsas, B. Fontaine, and J. R. David

MOLECULAR BIOLOGY • MOLECULAR GENETICS

J. W. Ihle, J. Silver, and C. A. Kozak
M. P. Stenzel-Poore and M. B. Rittenberg
J. L. Claflin, J. Berry, D. Flaherty, and W. Dunnick

J. W. Ihle, J. Silver, and C. A. Kozak
M. P. Stenzel-Poore and M. B. Rittenberg
J. L. Claflin, J. Berry, D. Flaherty, and W. Dunnick
<table>
<thead>
<tr>
<th>Article Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heterogeneity in Response to Interleukin 2 and Interleukin 2-Producing</td>
<td>3069</td>
</tr>
<tr>
<td>Ability of Adult T Cell Leukemic Cells</td>
<td></td>
</tr>
<tr>
<td>Quantitation of Cell Surface Molecules on a Differentiating, Ly-1⁺ B Cell</td>
<td>3075</td>
</tr>
<tr>
<td>Lymphoma</td>
<td></td>
</tr>
</tbody>
</table>

**Announcements**

3083

**Author Index**

3085