Contents

COMMUNICATION

T. M. Folks 3913 Epitope Mapping of Human Immunodeficiency Virus: A Monoclonal Approach

R. Korpela, S. Jalkanen, L. Paljärvi, and P. Toivanen 3915 Early Embryonic Bursectomy Induces Eosinophilia

CELLULAR IMMUNOLOGY

L. D. Falo, Jr., B. Benacerraf, L. Rothstein, and R. L. Rock 3918 Cerulenin Is a Potent Inhibitor of Antigen Processing by Antigen-Presenting Cells
R. L. Geller, G. Gromo, L. Inverardi, E. Ferrero, and F. H. Bach 3930 Stepwise Activation of T Cells: Role of the Calcium Ionophore A23187
T. Nakayama, M. Kubo, H. Gomi, Y. Asano, and T. Tada 3935 Major Histocompatibility Complex-Restricted Augmenting T Cells Induced by In Vitro Cultivation of Antigen-Primed T Cells: A New Parallelism between Suppressor and Augmenting Circuits
M.-L. Blue, D. A. Hafler, K. A. Craig, H. Levine, and S. F. Schlossman 3949 Phosphorylation of CD4 and CD8 Molecules following T Cell Triggering
P. Naquet, J. Ellis, B. Singh, R. S. Hodges, and T. L. Delovitch 3955 Processing and Presentation of Insulin. I. Analysis of Immunogenic Peptides and Processing Requirements for Insulin A Loop-Specific T Cells
C.-C. Ting and M. E. Hargrove 3964 Generation of Antisuppressor T Cells for Alloreactive Cytotoxic T Lymphocytes
R. Pabst and J. D. Reynolds 3981 Peyer's Patches Export Lymphocytes throughout the Lymphoid System in Sheep
S. Tomooka, G. Matsuzaki, K. Kishihara, K. Tanaka, Y. Yoshihaki, K. Taniguchi, K. Himeno, and K. Nomoto 3986 Sequential Appearance of Thymocyte Subpopulations and T Cell Antigen Receptor Gene Messages in the Mouse Thymus after Sublethal Irradiation

Continued on page 4
Continued from page 3

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>O. Kanagawa and R. Nagasawa</td>
<td>3991</td>
<td>Dissociation of Alloantigen Recognition from Self Major Histocompatibility Complex-Restricted Recognition of Cytolytic T Lymphocytes by Monoclonal Antireceptor Antibodies</td>
</tr>
<tr>
<td>P. R. Blier and A. Bothwell</td>
<td>3996</td>
<td>A Limited Number of B Cell Lineages Generates the Heterogeneity of a Secondary Immune Response</td>
</tr>
<tr>
<td>S. Macphail and O. Stutman</td>
<td>4007</td>
<td>L3T4+ Cytotoxic T Lymphocytes Specific for Class I H-2 Antigens Are Activated in Primary Mixed Lymphocyte Reactions</td>
</tr>
</tbody>
</table>

**CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY**

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. J. Schluener, R. A. Sobel, C. Linsto, and H. L. Weener</td>
<td>4016</td>
<td>A Monoclonal Antibody against a Myelin Oligodendrocyte Glycoprotein Induces Relapses and Denyelination in Central Nervous System Autoimmune Disease</td>
</tr>
<tr>
<td>L. Hao, Y. Wang, R. G. Gill, and K. J. Lafferty</td>
<td>4022</td>
<td>Role of the L3T4+ T Cell in Allograft Rejection</td>
</tr>
<tr>
<td>A. A. Ansari, T. K. Kihara, and D. G. Marsh</td>
<td>4034</td>
<td>Immunochemical Studies of Lollum perenne (Rye Grass) Pollen Allergens, Lop1, I, and III</td>
</tr>
<tr>
<td>L. F. Thompson, J. M. Ruedl, M. G. Low, and L. T. Clement</td>
<td>4042</td>
<td>Distribution of Ecto-5'-Nucleotidase on Subsets of Human T and B Lymphocytes as Detected by Indirect Immunofluorescence Using Goat Antibodies</td>
</tr>
<tr>
<td>T. B. Nutman, G. Delespresse, M. Sarfati, and D. J. Volkman</td>
<td>4049</td>
<td>T Cell-Derived IgE-Binding Factors. I. Cloned and Transformed T Cells Producing IgE-Binding Factors</td>
</tr>
<tr>
<td>M. Sarfati, T. B. Nutman, U. Suter, H. Hofstetter, and G. Delespresse</td>
<td>4055</td>
<td>T Cell-Derived IgE-Binding Factors. II. Purification and Characterization of IgE-Binding Factors Produced by Human T Cell Leukemia/Lymphoma Virus I-Transformed T Lymphocytes</td>
</tr>
<tr>
<td>J. L. Ceuppens and F. Van Vaeck</td>
<td>4067</td>
<td>Direct Demonstration of Binding of Anti-Leu 4 Antibody to the 40 kDa Fc Receptor on Monocytes as a Prerequisite for Anti-Leu 4-Induced T Cell Mitogenesis</td>
</tr>
<tr>
<td>C. R. Wyatt, N. S. Magnuson, and L. E. Perryman</td>
<td>4072</td>
<td>Defective Thymocyte Maturation in Horses with Severe Combined Immunodeficiency</td>
</tr>
</tbody>
</table>

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Mandrup-Poulsen, K. Bendl- zen, C. A. Dinarello, and J. Nerup</td>
<td>4077</td>
<td>Human Tumor Necrosis Factor Potentiates Human Interleukin 1-Mediated Rat Pancreatic β-Cell Cytotoxicity</td>
</tr>
<tr>
<td>G. B. Mills and C. May</td>
<td>4083</td>
<td>Binding of Interleukin 2 to Its 75-kDa Intermediate Affinity Receptor Is Sufficient to Activate Na+/H+ Exchange</td>
</tr>
<tr>
<td>F. J. Dumont and R. C. Boltz</td>
<td>4088</td>
<td>The Augmentation of Surface Ly-6A/E Molecules in Activated T Cells Is Mediated by Endogenous Interferon-γ</td>
</tr>
<tr>
<td>L. Chen, Y. Suzuki, and E. F. Wheelock</td>
<td>4096</td>
<td>Interferon-γ Synergizes with Tumor Necrosis Factor and with Interleukin 1 and Requires the Presence of both Monokines to Induce Antitumor Cytotoxic Activity in Macrophages</td>
</tr>
<tr>
<td>J. Ransom, M. Fischer, T. Morsmann, T. Yokota, D. Deluca, J. Schumacher, and A. Zlotnik</td>
<td>4102</td>
<td>Interferon-γ Is Produced by Activated Immature Mouse Thymocytes and Inhibits the Interleukin 4-Induced Proliferation of Immature Thymocytes</td>
</tr>
<tr>
<td>J. Hu, C. Vaquero, S. Huea, A. Bernard, and G. Sterkers</td>
<td>4109</td>
<td>Interleukin 2 Up-Regulates Its Own Production</td>
</tr>
</tbody>
</table>

Continued on page 5
Continued from page 4

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Baumann, C. Richards, and J. Gauldie</td>
<td>Interaction among Hepatocyte-Stimulating Factors, Interleukin 1, and Glucocorticoids for Regulation of Acute Phase Plasma Proteins in Human Hepatoma (HepG2) Cells</td>
</tr>
<tr>
<td>P. J. Knudsen, C. A. Dinarello, and T. B. Strom</td>
<td>Glucocorticoids Inhibit Transcriptional and Post-Transcriptional Expression of Interleukin 1 in U937 Cells</td>
</tr>
</tbody>
</table>

**IMMUNOCHEMISTRY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. J. Smith-Gill, P. A. Hamel, T. B. Loveloe, and K. J. Dorrington</td>
<td>Contributions of Immunoglobulin Heavy and Light Chains to Antibody Specificity for Lysozyme and Two Haptens</td>
</tr>
<tr>
<td>A.-B. Laurell, U. Martensson, and A. G. Sjoholm</td>
<td>C1 Dissociation: Spontaneous Generation in Human Serum of a Trimer Complex Containing C1 Inactivator, Activated C1r, and Zymogen Cls</td>
</tr>
<tr>
<td>E. Puré, M. D. Witmer, J. B. Lum, I. Mellman, and J. C. Unkeless</td>
<td>Properties of a Second Epitope of the Murine Fc Receptor for Aggregated IgG</td>
</tr>
</tbody>
</table>

**IMMUNOPHARMACOLOGY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. P. Fletcher</td>
<td>Prostaglandin E1 Inhibits N-Formyl-Methionyl-Leucyl-Phenylalanine-Mediated Depolarization Responses by Decreasing the Proportion of Responsive Cells without Affecting Chemotaxin-Induced Forward Light Scatter Changes</td>
</tr>
<tr>
<td>T. H. Price, P. G. Beatty, and S. R. Corpus</td>
<td>In Vivo Inhibition of Neutrophil Function in the Rabbit Using Monoclonal Antibody to CD18</td>
</tr>
</tbody>
</table>

**MICROBIAL IMMUNOLOGY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Hengel, M. Linder, H. Wagner, and K. Heeg</td>
<td>Frequency of Herpes Simplex Virus-Specific Murine Cytotoxic T Lymphocyte Precursors in Mitogen- and Antigen-Driven Primary In Vitro T Cell Responses</td>
</tr>
<tr>
<td>M. Carl, F.-M. Robbins, R. J. Hartman, and G. A. Dasch</td>
<td>Lysis of Cells Infected with Typhus Group Rickettsiae by a Human Cytotoxic T Cell Clone</td>
</tr>
</tbody>
</table>

Continued on page 6
I. A. Quakyi, R. Carter, J. Reiner, N. Kumar, M. F. Good, and L. H. Miller
E. A. Havell

4213 The 230-kDa Gamete Surface Protein of *Plasmodium falciparum* Is also a Target for Transmission-Blocking Antibodies

4218 Isolation and Characterization of a Protective Antigen for Adjuvant-Free Immunization against *Schistosoma mansoni*

4225 Production of Tumor Necrosis Factor during Murine Listeriosis

---

**MOLECULAR BIOLOGY • MOLECULAR GENETICS**

H. Doral and G. P. Moore

4232 The Effect of Dihydrofolate Reductase-Mediated Gene Amplification on the Expression of Transfected Immunoglobulin Genes

---

**TUMOR IMMUNOLOGY**

S. H. Bridges, A. M. Kruisbeck, and D. L. Longo
G. Viale, F. Grassi, M. Pelagi, R. Alzani, S. Ménard, S. Miotti, R. Buffa, A. Gini, and A. G. Siccardi

4242 Selective In Vivo Antitumor Effects of Monoclonal Anti-I-A Antibody on B Cell Lymphoma

4250 Antihuman Tumor Antibodies Induced in Mice and Rabbits by "Internal Image" Anti-Idiotypic Monoclonal Immunoglobulins

---

Author Index 4256
Ad Hoc Reviewers 4257
Volume 139 Author Index 4261
Volume 139 Subject Index 4270