Contents

CELLULAR IMMUNOLOGY

D. Tartof and F. W. Fitch 1086 Kinetics of CTL Induction by Concanavalin A
M. Okada, T. Kishimoto, T. Igarashi, T. Teranishi, and Y. Yamamura 1097 LPS-or 8Br-Cyclic AMP-Induced Production of T Cell-Activating Factor(s) in Macrophage Tumor Cell Line J774.1
F. Lemonnier, M. Mescher, L. Sherman, and S. Burakoff 1114 The Induction of Cytolytic T Lymphocytes with Purified Plasma Membranes
G. Berke, R. Tzur, and M. Inbar 1137 Changes in Fluorescence Polarization of a Membrane Probe during Lymphocyte-Target Cell Interaction
H. Y. Tse and R. W. Dutton 1149 Separation of Helper and Suppressor T Lymphocytes. II. Positive and Negative Effects of Mixed Lymphocyte Reaction-Activated T Cells
J. I. Willis-Carr and R. L. St. Pierre 1153 Effects of Vitamin B6 Deficiency on Thymic Epithelial Cells and T Lymphocyte Differentiation
M. Minami, M. Usui, T. Kanno, N. Tamura, and T. Matuhssi 1195 Demonstration of Two Types of Helper T Cells for Different IgG Subclass Responses to Dinitrophenylated Flagellin Polymer
J. J. Kenny, J. E. Merrill, and R. F. Ashman 1233 A Two-Step Centrifugation Procedure for the Purification of Sheep Erythrocyte Antigen-Binding Cells
G. Chu 1261 The Kinetics of Target Cell Lysis by Cytotoxic T Lymphocytes: A Description by Poisson Statistics
S. B. Shurin and T. P. Stossel 1305 Complement (C3)-Activated Phagocytosis by Lung Macrophages

CLINICAL IMMUNOLOGY

E. R. Pearl, L. B. Vogler, A. J. Okos, W. M. Crist, A. R. Lawton III, and M. D. Cooper 1169 B Lymphocyte Precursors in Human Bone Marrow: An Analysis of Normal Individuals and Patients with Antibody-Deficiency States
A. J. Strelkauskas, V. Schaaf, B. S. Wilson, L. Chess, and S. F. Schlossman 1278 Isolation and Characterization of Naturally Occurring Subclasses of Human Peripheral Blood T Cells with Regulatory Functions
R. L. Evans, H. Lazarus, A. C. Penta, and S. F. Schlossman 1423 Two Functionally Distinct Subpopulations of Human T Cells that Collaborate in the Generation of Cytotoxic Cells Responsible for Cell-Mediated Lympholysis
J.-F. Delfraissey, P. Galanaud, J. Dormont, and C. Wallon 1283 Primary in Vitro Antibody Response of Human Peripheral Blood Lymphocytes: Role of Phagocytic Mononuclear Cells
D. Santoli, L. Moretta, R. Lisak, D. Gilden, and H. Koprowski 1369 Purification of Human Monocytes on Microexudate-Coated Surfaces
S. K. Ackerman and S. D. Douglas 1372 Imbalances in T Cell Subpopulations in Multiple Sclerosis Patients
R. E. Rocklin and A. M. Urbano 1409 Human Leukocyte Inhibitory Factor (LIF): Use of Benzoyl L-Arginine Ethyl Ester to Detect LIF Activity
J. K. Seeley and S. H. Golub 1415 Studies on Cytotoxicity Generated in Human Mixed Lymphocyte Cultures. I. Time Course and Target Spectrum of Several Distinct Concomitant Cytotoxic Activities

IMMUNOCHEMISTRY

R. A. Clark and S. J. Klebanoff 1102 Role of the Classical and Alternative Complement Pathways in Chemotaxis and Opsonization: Studies of Human Serum Deficient in C4
G. F. Dancey, T. Yasuda, and S. C. Kinsky 1109 Effect of Liposomal Model Membrane Composition on Immunogenicity
F. S. Ligler, J. C. Cambier, E. S. Vitetta, J. R. Kettman, and J. W. Uhr
G. L. Mayers, R. B. Bankert, and D. Pressman
T. A. E., Platts-Mills, M. J. Snajdr, K. Ishizaka, and A. W. Frankland
P. W. Kincade, C. J. Paige, R. M. E. Pad(house, and G. Lee
H. Nagura, P. K. Nakane, and W. R. Brown
M. R. Daha, K. F. Austen, and D. T. Fearon
D. M. Segal and J. A. Titus
J. E. Navran and S. J. Archer
C. Bona, R. Lieberman, C. C. Chien, J. Mond, S. House, I. Green, and W. E. Paul

Inactivation of Antigen-Responsive Clones with Antiserum Specific for IgM or IgD

Comparison of the Homogeneous, Primary Anti-Dextran B1355 Antibody Raised in BALB/c Mice with Protein 104E

Measurement of IgE Antibody by an Antigen-Binding Assay: Correlation with PK Activity and IgG and IgA Antibodies to Allergens

Characterization of Murine Colony-Forming B Cells. I. Distribution, Resistance to Anti-Immunoglobulin Antibodies, and Expression of Ia Antigens

Breast Milk IgA Binds to Jejunal Epithelium in Suckling Rats

Heterogeneity, Polypeptide Chain Composition, and Antigenic Reactivity of C3 Nephritic Factor

The Subclass Specificity for the Binding of Murine Myeloma Proteins to Macrophage Cell Lines and to Normal Spleen Cells

The Modulation of the Alternative Pathway of Complement in C2-Deficient Human Serum by Changes in Concentration of the Component and Control Proteins

Isolation and Characterization of a Rabbit T-Lymphocyte-Specific Antigen

Immune Response to Levan. I. Kinetics and Ontogeny of Anti-levan and Anti-inulin Antibody Response and of Expression of Cross-Reactive Idiotyp

B. Chesebro and K. Wehrly
L. D. Fast and D. P. Fan
W. J. Mandy and A. D. Strosberg
J. A. Mattingly and P. M. Webb
P. D. Thomson, P. A. Rampy, and J. W. Jutila
B. Merchant, H. Snippe, E. F. Lizzio, and J. K. Inman
M. A. Mandel and A. A. F. Mahmoud

Rfv-1 and Rfv-2, Two H-2 Associated Genes That Influence Recovery from Friend Leukemia Virus-Induced Splenomegaly
Dissociated and Reconstituted Subcellular Alloantigen Capable of Stimulating Mouse Cytotoxic T Lymphocytes in Vitro
Latent Expression of A Cy Gene
Studies on the Mitogen Responses of Germfree Allogeneic Chimeras. II. Maturation of Two Cell Types and Partial Restoration of Responsiveness of the Short-term Chimeras
A Mechanism for the Suppression of Graft-vs-Host Disease with Endotoxin
X-Linked Genetic Control of Hapten-Polysaccharide-Mediated Specific Immune Unresponsiveness in CBA/N Mice
Impairment of Cell-Mediated Immunity in Mutation Diabetic Mice (db/db)

K. Kayashima, T. Koga, and K. Onoue
J. M. Oliver, S. P. Spielberg, C. B. Pearson, and J. D. Schulman
D. Gemsa, M. Seitz, W. Kramer, G. Till, and K. Resch
B. Kewski and H. Wekerle

Role of T Lymphocytes in Adjuvant Arthritis. II. Different Subpopulations of T Lymphocytes Functioning in the Development of the Disease
Opsonin-Independent Phagocytosis of Activators of the Alternative Complement Pathway by Human Monocytes
Microtubule Assembly and Function in Normal and Glutathione Synthetase-Deficient Polymorphonuclear Leukocytes
The Effects of Phagocytosis, Dextran Sulfate, and Cell Damage on PGE1 Sensitivity and PGE1 Production of Macrophages
Increase of T Lymphocyte Self Reactivity in Aging Inbred Rats: In Vitro Studies with a Model of Experimental Autoimmune Orchitis
Inhibition of in Vivo and in Vitro Neutrophil Responses to Chemotactic Factors by A Competitive Antagonist

P. F. Bartlett, B. A. Fenderson, and M. Edidin

Inhibition of Tumor Growth Mediated by Lymphocytes Sensitized in Vitro to a Syngeneic Murine Teratocarcinoma 402AX

Continued on page 4
Continued from page 3

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. Takei, J. G. Levy, and D. G. Kilburn</td>
<td>1218</td>
</tr>
<tr>
<td>A. M. Dvorak, A. B. Connell, K. Proppe, and H. F. Dvorak</td>
<td>1240</td>
</tr>
<tr>
<td>B. Schechter, S. Segal, and M. Feldman</td>
<td>1268</td>
</tr>
<tr>
<td>C. R. Carpenter, A. S. Rubin, and H. R. Bose, Jr.</td>
<td>1313</td>
</tr>
<tr>
<td>V. L. Scofield and H. R. Bose, Jr.</td>
<td>1321</td>
</tr>
<tr>
<td>K. D. Elgert and W. L. Farrar</td>
<td>1345</td>
</tr>
<tr>
<td>W. L. Farrar and K. D. Elgert</td>
<td>1354</td>
</tr>
</tbody>
</table>

### VIRAL AND MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. Gerhard</td>
<td>1164</td>
</tr>
<tr>
<td>N. N. Pearsall, B. L. Adams, and R. Bunni</td>
<td>1176</td>
</tr>
<tr>
<td>D. G. Colley, F. A. Lewis, and R. W. Goodgame</td>
<td>1225</td>
</tr>
<tr>
<td>W. Gerhard, Y. Iwasaki, and H. Koprowski</td>
<td>1256</td>
</tr>
<tr>
<td>M. J. Buchmeier and M. B. A. Oldstone</td>
<td>1297</td>
</tr>
</tbody>
</table>

**Announcements**

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1443</td>
</tr>
</tbody>
</table>

**Errata**

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1445</td>
</tr>
</tbody>
</table>

**Author Index**

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1446</td>
</tr>
</tbody>
</table>