## Contents

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. A. Barber and P. M. Burkholder</td>
<td>716</td>
</tr>
<tr>
<td>S. B. Singh and S. Leskowitz</td>
<td>734</td>
</tr>
<tr>
<td>U. Hammerling, R. Chua, and M. K. Hoffmann</td>
<td>750</td>
</tr>
<tr>
<td>P. J. Gilmer, H. O. McDevitt, and H. M. McConnell</td>
<td>774</td>
</tr>
<tr>
<td>K. Ozato and J. D. Ebert</td>
<td>786</td>
</tr>
<tr>
<td>L. S. F. Soderberg and A. H. Coons</td>
<td>806</td>
</tr>
<tr>
<td>S.-I. Tamura and K. Ishizaka</td>
<td>980</td>
</tr>
<tr>
<td>C. E. Moody, J. B. Innes, G. W. Siskind, and M. E. Weksler</td>
<td>844</td>
</tr>
<tr>
<td>J. Ngan and L. S. Kind</td>
<td>861</td>
</tr>
<tr>
<td>J. D. Haynes, R. W. Rosenstein, and P. W. Askenase</td>
<td>886</td>
</tr>
<tr>
<td>M. C. Howard, J. M. Fidler, J. Hamilton and K. Shortman</td>
<td>911</td>
</tr>
<tr>
<td>M. Sugimoto, R. N. Germain, L. Chedid, and B. Benacerraf</td>
<td>980</td>
</tr>
<tr>
<td>R. B. Markham, P. W. Stashak, B. Prescott, D. F. Amsbaugh, and P. J. Baker</td>
<td>986</td>
</tr>
<tr>
<td>J. A. Thoma, M. H. Touton, and W. R. Clark</td>
<td>991</td>
</tr>
<tr>
<td>R. L. Duncan, Jr., and W. P. McArthur</td>
<td>1014</td>
</tr>
<tr>
<td>D. Trizio and G. Cudkowicz</td>
<td>1028</td>
</tr>
<tr>
<td>M. D. Grebenau and G. J. Thorbecke</td>
<td>1046</td>
</tr>
<tr>
<td>R. P. Stankus, F. M. Cashner, and J. E. Salvaggio</td>
<td>685</td>
</tr>
<tr>
<td>B. F. Haynes and A. S. Fauci</td>
<td>700</td>
</tr>
<tr>
<td>H. S. Koren, D. B. Amos, and R. H. Buckley</td>
<td>796</td>
</tr>
</tbody>
</table>

### CLINICAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. P. Stankus, F. M. Cashner, and J. E. Salvaggio</td>
<td>685</td>
</tr>
<tr>
<td>B. F. Haynes and A. S. Fauci</td>
<td>700</td>
</tr>
<tr>
<td>H. S. Koren, D. B. Amos, and R. H. Buckley</td>
<td>796</td>
</tr>
</tbody>
</table>

- **T. A. Barber and P. M. Burkholder**: Enumeration and Ultrastructure of C4-Producing Free Alveolar Cells from Guinea Pig Lung
- **S. B. Singh and S. Leskowitz**: Immune Response in Guinea Pigs to Two Different Lipid Conjugates of Bovine Serum Albumin
- **U. Hammerling, R. Chua, and M. K. Hoffmann**: Polyclonal Activation of CR⁺ and CR⁻ B Lymphocytes: The Kinetics of Initiation of DNA and Immunoglobulin Synthesis by Lipopolysaccharide
- **P. J. Gilmer, H. O. McDevitt, and H. M. McConnell**: Inhibition of Specific Effector T Cell-Target Cell Conjugates by Target Cell Plasma Membranes
- **K. Ozato and J. D. Ebert**: Transfer of Concanavalin A between Responding Lymphocytes and Syngeneic Stimulating Cells in Cell-Mediated Mitogenic Response
- **L. S. F. Soderberg and A. H. Coons**: Complement-Dependent Stimulation of Normal Lymphocytes by Immune Complexes
- **S.-I. Tamura and K. Ishizaka**: Reaginic Antibody Formation in the Mouse. X. Possible Role of Suppressor T Cells in Transient IgE Antibody Responses
- **C. E. Moody, J. B. Innes, G. W. Siskind, and M. E. Weksler**: Tolerance Induced by TNP-Derivatized Syngeneic Erythrocytes: Evidence for Cooperation between Hapten-Specific T and Hapten-Specific B Lymphocytes in the Immune Response
- **J. Ngan and L. S. Kind**: Suppressor T Cells for IgE and IgG in Peyer's Patches of Mice Made Tolerant by the Oral Administration of Ovalbumin
- **J. D. Haynes, R. W. Rosenstein, and P. W. Askenase**: A Newly Described Activity of Guinea Pig IgG1 Antibodies: Transfer of Cutaneous Basophil Reactions
- **M. C. Howard, J. M. Fidler, J. Hamilton and K. Shortman**: Antigen-Initiated B Lymphocyte Differentiation. XII. Nonspecific Effects of Antigenic Stimulation on the Physical Properties of AFC-Progenitors
- **W. Newman, S. Gordon, U. Hammerling, A. Senik, and B. R. Bloom**: Production of Migration Inhibition Factor (MIF) and an Inducer of Plasminogen Activator (IPA) by Subsets of T Cells in MLC
- **M. Sugimoto, R. N. Germain, L. Chedid, and B. Benacerraf**: Enhancement of Carrier-Specific Helper T Cell Function by the Synthetic Adjuvant, N-Acetyl Muramyl-L-Alanyl-o-L-isoglutamine (MDP)
- **R. B. Markham, P. W. Stashak, B. Prescott, D. F. Amsbaugh, and P. J. Baker**: Generation of Low-Dose Paralysis in the Absence of the Ability to Secrete Antibody
- **J. A. Thoma, M. H. Touton, and W. R. Clark**: Interpretation of ⁵¹Cr-Release Data: A Kinetic Analysis
- **R. L. Duncan, Jr., and W. P. McArthur**: Partial Characterization and the Distribution of Chicken Mononuclear Cells Bearing the Fc Receptor
- **D. Trizio and G. Cudkowicz**: Effect of Selective T Cell Priming on Anti-sheep and Anti-hapten Humoral Responses. I. Acceleration, Augmentation, and Reversal of IgG:IgM Ratios
- **D. Trizio and G. Cudkowicz**: Effect of Selective T Cell Priming on Anti-sheep and Anti-hapten Humoral Responses. II. Separation by Nylon Wool Columns of the Activated Lymphocytes
- **M. D. Grebenau and G. J. Thorbecke**: T Cell Tolerance in the Chicken. I. Parameters Affecting Tolerance Induction to Human γ-Globulin in Agammaglobulinemic and Normal Chickens
- **R. P. Stankus, F. M. Cashner, and J. E. Salvaggio**: Bronchopulmonary Macrophage Activation in the Pathogenesis of Hypersensitivity Pneumonitis
- **B. F. Haynes and A. S. Fauci**: Activation of Human B Lymphocytes. V. Kinetics and Mechanisms of Suppression of Plaque-Forming Cell Responses by Concanavalin A-Generated Suppressor Cells
- **H. S. Koren, D. B. Amos, and R. H. Buckley**: Natural Killing in Immunodeficient Patients
Control of Human B Lymphocyte Responsiveness: Enhanced Suppressor T Cell Activity after in Vitro Incubation

Selective IgA Deficiency Associated with Total Villous Atrophy of the Small Intestine and an Organ-Specific Anti-epithelial Cell Antibody

DNA Synthesis and Proliferation of Human Lymphocytes in Vitro. I. Cell Kinetics of Response to Phytohemagglutinin

DNA Synthesis and Proliferation of Human Lymphocytes in Vitro. II. Characterization of the DNA Newly Synthesized after Phytohemagglutinin Stimulation

The Effect of d-Penicillamine on Mitogen-Induced Human Lymphocyte Proliferation: Synergistic Inhibition by d-Penicillamine and Copper Salts

Molecular Basis of B Cell Activation: Mitogenicity of Native and Modified Digitalis Glycosides

Isolation of an Fcγ-Binding Protein from the Cell Membrane of a Macrophage-Like Cell Line (P388D1) after Detergent Solubilization

Nonimmunosenpecific Protein-Protein Interactions of IgG: Studies of the Binding of IgG to IgG Immunoabsorbents

The Regulation of IgM Production in the Chick: Roles of the Bursa of Fabricius, Environmental Antigens, and Plasma IgG

Delineation of Spontaneous Erythrocyte Autoantibody Responses of NZB and Other Strains of Mice

Leukocyte Complement: Neoaantigens of the Membrane Attack Complex on the Surface of Human Leukocytes Prepared from Defibrinated Blood

Leukocyte Complement: Assembly of the Membrane Attack Complex by Human Peripheral Blood Leukocytes in the Presence and Absence of Serum

Membrane Receptors of Mouse Leukocytes. I. Two types of Complement Receptors for Different Regions of C3

Opsonic Activity of Guinea Pig Serum is Reduced by in Vivo Administration of Carcinogenic Nitrosamines

The Maintenance and Regulation of Serum Antibody Levels: Evidence Indicating a Role for Antigen Retained in Lymphoid Follicles

Immune Response to Immunization via the Anterior Chamber of the Eye. II. An Analysis of F1 Lymphocyte-Induced Immune Deviation

Structural Differences between the Mouse H-2D Products of the Mutant b10.D2.M504 (H-2a) and the Parental Nonmutant Strain B10.D2 (H-2b)

Effects of Restoring Lethally Irradiated Mice with Anti-Thy 1.2-Treated Bone Marrow: Graft-vs-Host, Host-vs-Graft, and Mitogen Reactivity

Structural and Genetic Studies on Chicken 7S Immunoglobulin Allotypes. IV. The Presence of an Unexpected Chicken Immunoglobulin Heavy Chain Allotype: Subclass or Pseudoallele?

Expression of Murine Ia Antigens during Embryonic Development

Structural Studies of Rabbit IgA Allotypes: Partial Amino Acid Sequences of α-Chain Allotypes Controlled by Allelic Genes at the Cα locus

Plasminogen Activator of Guinea Pig Basophilic Leukocytes: Probably Localization to the Plasma Membrane

Continued on page 4
Continued from page 3

T. Ishizaka and K. Ishizaka 800 Triggering of Histamine Release from Rat Mast Cells by Divalent Antibodies against IgE-Receptors

D. L. Marquardt, C. W. Parker, and T. J. Sullivan 871 Potentiation of Mast Cell Mediator Release by Adenosine


I. D. Gardner, and J. S. Remington 944 Aging and the Immune Response. II. Lymphocyte Responsiveness and Macrophage Activation in Toxoplasma gondii-Infected mice

M. E. Gershwin, R. M. Ikeda, W. L. Kruse, F. Wilson, M. Shiffrine, and W. Spangler 971 Age-Dependent Loss in New Zealand Mice of Morphologic and Functional Characteristics of Thymic Epithelial Cells

M. K. Bach and J. R. Brashler 998 Ionophore A 23187-Induced Production of Slow Reacting Substance of Anaphylaxis (SRS-A) by Rat Peritoneal Cells in Vitro: Evidence for Production by Mononuclear Cells

---

**TUMOR IMMUNOLOGY**

A. Saxon, R. H. Stevens, S. G. Quan, and D. W. Golde 777 Immunologic Characterization of Hairy Cell Leukemias in Continuous Culture


B. A. Smith, B. R. Ware, and R. A. Yankee 921 Electrophoretic Mobility Distributions of Normal Human T and B Lymphocytes and of Peripheral Blood Lymphoblasts in Acute Lymphocytic Leukemia: Effects of Neuraminidase and of Solvent Ionic Strength

L. P. Ruco and M. S. Meltzer 1054 Macrophage Activation for Tumor Cytotoxicity: Increased Lymphokine Responsiveness of Peritoneal Macrophages during Acute Inflammation

---

**VIRAL AND MICROBIAL IMMUNOLOGY**

J. Tanaka and M. Torisu 745 Anisakis and Eosinophil. I. Detection of a Soluble Factor Selectively Chemotactic for Eosinophils in the Extract from Anisakis Larvae

J. M. Mansfield and O. Bagasra 759 Lymphocyte Function in Experimental African Trypanosomiasis. I. B. Cell Responses to Helper T Cell-Independent and -Dependent Antigens

P. Anderson 866 Intrinsis Tritium Labeling of the Capsular Polysaccharide Antigen of Haemophilus influenzae Type b

B. Hammerberg and J. F. Williams 1033 Interaction between Taenia taeniaeformis and the Complement System

B. Hammerberg and J. F. Williams 1039 Physicochemical Characterization of Complement-Interacting Factors from Taenia taeniaeformis

P. A. Coulis, R. M. Lewert, and F. W. Fitch 1074 SplenicSuppressor Cells and Cell-Mediated Cytotoxicity in Murine Schistosomiasis (Correction of Article from Volume 120, Number 1, pages 58 to 60, 1978)

---

**COMMUNICATIONS**

R. H. Civil and A. A. F. Mahmoud 1070 Genetic Differences in BCG-Induced Resistance to Schistosoma mansoni are Not Controlled by Genes within the Major Histocompatibility Complex of the Mouse

Erratum 1073 Splenic Suppressor Cells and Cell-Mediated Cytotoxicity in Murine Schistosomiasis by P. A. Coulis, R. M. Lewert, and F. W. Fitch

Announcements 1077

Author Index 1080