Contents

COMMUNICATION

A. D. O'Brien and E. S. Metcalf 1349 Control of Early *Salmonella typhimurium* Growth in Innately *Salmonella*-Resistant Mice Does Not Require Functional T Lymphocytes

CELLULAR IMMUNOLOGY

B. C. Cole, R. A. Daynes, and J. R. Ward 1352 Stimulation of Mouse Lymphocytes by a Mitogen Derived from *Mycoplasma arthritidis*. III. Ir Gene Control of Lymphocyte Transformation Correlates with Binding of the Mitogen to Specific la-Bearing Cells

K. L. Rock 1360 The Role of la Molecules in the Activation of T Lymphocytes. I. The Activation of an IL 1-Dependent IL 2-Producing T Cell Hybridoma by Con A Requires an Interaction, Which Is Not H-2-Restricted, with an la-Bearing Accessory Cell

T. Kishimoto, Y. Miki, H. Kishi, A. Muraguchi, S. Kishimoto, and Y. Yamamura 1367 IgG Induction in a Human B Cell Line by Red Cell-Mediated Microinjection of the Cytoplasm from T Cell Factor-Stimulated B Cells

M. V. Sitkovsky, M. S. Pasternack, and H. N. Eisen 1372 Inhibition of Cytotoxic T Lymphocyte Activity by Concanaavalin A


T. Uede, T. F. Huff, and K. Ishizaka 1384 Formation of IgE-Binding Factors by Rat T Lymphocytes. V. Effect of Adjuvant for the Priming Immunization on the Nature of IgE-Binding Factors Formed by Antigenic Stimulation

T. Uede and K. Ishizaka 1391 Formation of IgE-Binding Factors by Rat T Lymphocytes. VI. Cellular Mechanisms for the Formation of IgE-Potentiating Factor and IgE-Suppressive Factor by Antigenic Stimulation of Antigen-Primed Spleen Cells

H. J. Leibson, P. Marrack, and J. Kappler 1398 B Cell Helper Factors. II. Synergy among Three Helper Factors in the Response of T Cell- and Macrophage-Depleted B Cells

T. Hamano, K. J. Kim, W. M. Leiserson, and R. Asofsky 1403 Establishment of B Cell Hybridomas with B Cell Surface Antigens


D. W. Thomas and M. D. Hoffman 1416 Evidence for Covert Cellular Interaction Sites Expressed by Activated T Lymphocytes

CLINICAL IMMUNOLOGY

C. D. Tsoukas, D. A. Carson, S. Fong, and J. H. Vaughan 1421 Molecular Interactions in Human T Cell-Mediated Cytotoxicity to EBV. II. Monoclonal Antibody OKT3 Inhibits a Post-Killer-Target Recognition/Adhesion Step

M. Horita, H. Suzuki, T. Onodera, F. Ginsberg-Felner, A. S. Fauci, and A. L. Notkins 1426 Abnormalities of Immunoregulatory T Cell Subsets in Patients with Insulin-Dependent Diabetes Mellitus

D. D. F. Ma, T. A. Sylwestrowicz, S. Granger, M. Massaia, R. Franks, G. Janossy, and A. V. Hoffbrand 1430 Distribution of Terminal Deoxynucleotidyl Transferase and Purine Degradative and Synthetic Enzymes in Subpopulations of Human Thymocytes

Continued on page 4
Continued from page 3

J. J. Rinehart, D. Wuest, and G. A. Ackerman
T. Yokoi, T. Miyawaki, A. Yachie, S. Ohzeki, and N. Taniguchi
T. Issekutz, E. Chu, and R. S. Geha
G. F. Burns, A. W. Boyd, and P. C. L. Beverley
H. Rumpold, D. Kraft, G. Obexer, G. Bock, and W. Gebhart
J. R. Lamb, J. N. Woody, R. J. Hartzman, and D. D. Eckels
N. A. Owens, H. L. Hui, and F. A. Green
W. A. Tekoff, W. D. Biddison, R. D. Aster, and S. Shaw

Corticosteroid Alteration of Human Monocyte to Macrophage Differentiation
Discrepancy in Expression Ability of Tac Antigen and la Determinants Defined by Monoclonal Antibodies on Activated or Cultured Cord Blood T Lymphocytes
Antigen Presentation by Human B Cells: T Cell Proliferation Induced by Epstein Barr Virus B Lymphoblastoid Cells
Two Monoclonal Anti-human T Lymphocyte Antibodies Have Similar Biologic Effects and Completely Serve Surface Antigen
A Monoclonal Antibody against a Surface Antigen Shared by Human Large Granular Lymphocytes and Granulocytes
In Vitro Influenza Virus-Specific Antibody Production in Man: Antigen-Specific and HLA-Restricted Induction of Helper Activity Mediated by Cloned Human T Lymphocytes
The Binding Characteristics of Anti-Rho(D)-Positive Human and Chimpanzee Erythrocytes Measured with 14C Protein A
Two Subgroups of HLA Bw44 Defined by Cell-Mediated Lympholysis That Differ in Bw44 Expression on Platelets and in Patterns of Genetic Linkage Disequilibrium

IMMUNOCHEMISTRY

A. Circolo and T. Borsos
D. S. Pisetsky and E. A. Lerner
D. J. McCormick, W. W. Fredericks, T. H. Tebo, and N. J. Calvanico
J. E. Gootenberg, F. W. Ruscetti, and R. C. Gallo
A. Ferreira, D. Eichinger, and V. Nussenzweig
R. M. Chapuis, G. Hauptmann, E. Grosshans, and H. Isliker
M. H. Nahm, B. L. Clevinger, and J. M. Davie
J.-P. Bouvet, P. Liacopoulos, J. Pilott, R. Banda, E. Tung, and A.-C. Wang

Detection of IgG Bound within Human Trophoblast
C4 Does Not Bind to Human and Rabbit IgM during Activation of the Classical Complement Pathway on the Red Cell
Idiotypic Analysis of a Monoclonal Anti-Sm Antibody
The Antigens of Pigeon Breeder’s Disease. VII. Isoelectric Focusing Studies on Unfractionated Pigeon Dropping Extract
A Biochemical Variant of Human T Cell Growth Factor Produced by a Cutaneous T Cell Lymphoma Cell Line
The Murine Sex-Limited Protein (Slp): Reassessment of Its Sex Limitation
Structural and Functional Studies in C1q Deficiency
Monoclonal Antibodies to Streptococcal Group A Carbohydrate. I. A Dominant Idiotype Determinant Is Located on Vκ
Three M Components Iguλ + IgGκ + IgGλ in One Patient. Ii. Structurally Different κ and λ Chains Associated with H(γ) Chains Sharing Idiotypic Determinants

IMMUNOGENETICS AND TRANSPLANTATION

R. B. Levy and G. M. Shearer
C. J. Schlagel and A. Ahmed
J. J. Kenny, L. S. Wicker, G. Guede, and I. Scher
S. K. Datta, F. L. Owen, J. E. Womack, and R. J. Riblet
R. L. Riley, L. D. Wilson, R. N. Germain, and D. C. Benjamin
S. P. Chang, M. Brown, and M. B. Rittenberg

Cell-Mediated Lympholysis Responses against Autologous Cells Modified with Haptenic Sulfhydryl Reagents. IV. Self-Determinants Recognized by Wild-Type Anti-H-2K and H-2D-Restricted Cytotoxic T Cells Specific for Sulfhydryl and Unreactive Haptens Are Absent in Certain H-2 Mutant Strains
Evidence for Genetic Control of Microwave-Induced Augmentation of Complement Receptor-Bearing B Lymphocytes
Regulation of T15 Idiotype Dominance. I. Mice Expressing the xid Immune Defect Provide Normal Help to T15 + B Cell Precursors
Analysis of Recombinant Inbred Lines Derived from “Autoimmune” (NZB) and “High” Leukemia” (C58) Strains: Independent Multigenic Systems Control B Cell Hyperactivity, Retrovirus Expression, and Autoimmunity
Idiotypes of Anti-Id Antibodies. II. Effects of in Vivo Treatment with Xenogeneic Anti-idiotype
Immune Responses to Complex Protein Antigens. I. MHC Control of Immune Responses to Bovine Albumin
Immunologic Memory to Phosphorylcholine. III. IgM Includes a Fine Specificity Population Distinct from TEPC 15

Continued on page 5
## IMMUNOPATHOLOGY

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1563</td>
<td>The Role of T Cell Differentiation Markers in Antigen-Specific and Lectin-Dependent Cellular Cytotoxicity Mediated by T8⁺ and T4⁺ Human Cytotoxic T Cell Clones Directed at Class I and Class II MHC Antigens</td>
<td>H. Spits, J. Borst, C. Terhorst, and J. E. de Vries</td>
</tr>
<tr>
<td>1578</td>
<td>T Cell Subsets in Allograft Rejection. In Situ Characterization of T Cell Subsets in Human Skin Allografts by the Use of Monoclonal Antibodies</td>
<td>A. K. Bhan, M. C. Mihm, Jr., and H. F. Dvorak</td>
</tr>
<tr>
<td>1584</td>
<td>Functional Characteristics of a Ficoll-Separated Mouse Bone Marrow Cell Population Involved in Skin Allograft Prolongation</td>
<td>J. J. Gozzo, M. Crowley, T. Maki, and A. P. Monaco</td>
</tr>
</tbody>
</table>

## MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1570</td>
<td>The Capsule of Cryptococcus neoformans Passively Inhibits Phagocytosis of the Yeast by Macrophages</td>
<td>E. Conway de Macario, A. J. L. Macario, and O. Kandler</td>
</tr>
</tbody>
</table>
Continued from page 5


L. H. Kasper, J. H. Crabb, and E. R. Pfefferkorn


D. J. Wyler and L. J. Rosenwasser

J. Hamburger, S. Lustigman, T. K. A. Siongok, J. H. Ouma, and A. A. F. Mahmoud

K. M. Esser, M. J. Schoenbechler, and J. B. Gingrich

M. S. Meltzer, C. A. Nacy, M. M. Stevenson, and E. Skamene

D. L. Ewert and M. S. Halpern

B. Fleischer

T. T. Hecht and W. E. Paul

K. H. Leung and H. S. Koren

A. M. Krensky, K. A. Ault, C. S. Reiss, J. L. Strominger, and S. J. Burakoff

T. Abo, M. D. Cooper, and C. M. Balch

T. Abo and C. M. Balch

N. Dorfman, D. Winkler, R. C. Burton, N. Kossayda, P. Sabia, and J. Wunderlich

R. I. Fisher and F. Bostick-Bruton


J. C. Hiserodt, L. J. Britvan, and S. R. Targan

1688 Enhanced Resistance to Nocardia brasiliensis Infection in Mice Depleted of Antigen-Specific B Cells

1694 Isolation and Characterization of a Monoclonal Antibody-Resistant Antigenic Mutant of Toxoplasma gondii

1700 Variable and Common Antigens of Babesia bovis Parasites Differing in Strain and Virulence

1706 Fibroblast Stimulation in Schistosomiasis. II. Functional and Biochemical Characteristics of Egg Granuloma-Derived Fibroblast-Stimulating Factor

1711 Analysis and Preliminary Purification of Glycoproteins Isolated from Eggs in the Urine of Patients with Schistosoma haematobium Infection

1715 Trypanosoma rhodesiense Blood Forms Express All Antigen Specificities Relevant to Protection against Metacyclic (Insect Form) Challenge

1719 Macrophages in Resistance to Rickettsial Infections: Genetic Analysis of Susceptibility to Lethal Effects of Rickettsia akari Infection and Development of Activated, Cytotoxic Macrophages in A and B10.A Mice

1724 B Cell Expression of Endogenous Retroviral Envelope Antigen: Biochemical and Immunofluorescence Characterization

1731 Cloned Lines of Human Cytotoxic T Lymphocytes with Specificity for Influenza Virus

1736 Limitation of VSV Infection by the Host’s Response to VSV-Associated Cellular Antigens

TUMOR IMMUNOLOGY

K. H. Leung and H. S. Koren 1742 Regulation of Human Natural Killing. II. Protective Effect of Interferon on NK Cells from Suppression by PGE2


T. Abo, M. D. Cooper, and C. M. Balch 1752 Characterization of HNK-1+ (Leu-7) Human Lymphocytes. I. Two Distinct Phenotypes of Human NK Cells with Different Cytotoxic Capability

T. Abo and C. M. Balch 1758 Characterization of HNK-1 (Leu-7) Human Lymphocytes. II. Distinguishing Phenotypic and Functional Properties of Natural Killer Cells from Activated NK-Like Cells

N. Dorfman, D. Winkler, R. C. Burton, N. Kossayda, P. Sabia, and J. Wunderlich 1762 Broadly Reactive Murine Cytotoxic Cells Induced in Vitro under Syngeneic Conditions

R. I. Fisher and F. Bostick-Bruton 1770 Depressed T Cell Proliferative Responses in Hodgkin’s Disease: Role of Monocyte-Mediated Suppression via Prostaglandins and Hydrogen Peroxide


Announcements 1788

Erratum 1789

Author Index 1800