Contents

COMMUNICATIONS

S. H. Lee, B. B. Aggarwal, E. Rinderknecht, F. Assisi, and H. Chiu 1083 The Synergistic Anti-Proliferative Effect of γ-Interferon and Human Lymphtoxin
D. J. Jeske, J. Jarvis, C. Milstein, and J. D. Capra 1090 Junctional Diversity Is Essential to Antibody Activity

CELLULAR IMMUNOLOGY

P. L. Romain, S. F. Schlossman, and E. L. Reinherz 1093 Surface Molecules Involved in Self-Recognition and T Cell Activation in the Autologous Mixed Lymphocyte Reaction
B. A. Kyewski, M. Travis, and H. S. Kaplan 1117 Differentiation of Thymocytes in Fetal Organ Culture: Analysis of Phenotypic Changes Accompanying the Appearance of Cytolytic and Interleukin 2-Producing Cells
W. Ptak, M. Bereta, M. Ptak, R. K. Gershon, and D. R. Green 1124 Antigen-Specific T Contrasuppressor Factor in Cell-Mediated Immunity: Interactions Leading to Eradication of the Tolerant State
T. Sumida, I. Takei, and M. Taniguchi 1131 Activation of Acceptor-Suppressor Hybridoma with Antigen-Specific Suppressor T Cell Factor of Two-Chain Type: Requirement of the Antigen and the I-J-Restricting Specificity
M. Usui, I. Aoki, G. H. Sunshine, and M. E. Dorf 1137 Requirements for Suppressor T Cell Activation
D. H. Sherr and M. E. Dorf 1142 Characterization of Anti-Idiotypic Suppressor T Cells (Tsid) Induced after Antigen Priming
T. L. Rothstein and A. P. Vastola 1151 Homologous Monoclonal Antibodies Induce Idiotope-Specific Suppression in Neonates through Maternal Influence and in Adults Exposed During Fetal and Neonatal Life
A. Y. Eastman and D. A. Lawrence 1155 The Allogeneic Effect: The Mechanism of Allosuppression by Lyt-1, la- T Cells
R. M. O'Hara and W. R. Duncan 1163 Antigen-Specific Xenogeneic CTL Activity in the Syrian Hamster
J. A. Bluestone, T. A. Potter, S. Chatterjee-Hasrouni, and T. V. Rajan 1168 CTL Recognize Different Determinants from Those Defined Serologically on Ld Somatic Cell Mutants
C. Clayberger, R. H. DeKruyff, R. Fay, M. Pavliakis, and H. Cantor 1174 Immunoregulation of T-Dependent Responses by a Cloned Dendritic Cell
C. Guidos, M. Wong, and K.-C. Lee 1179 A Comparison of the Stimulatory Activities of Lymphoid Dendritic Cells and Macrophages in T Proliferative Responses to Various Antigens

Continued on page 4
Continued from page 3

L. M. Killar and T. K. Eisenstein

F. M. Hofman, J. Danilovs, L. Husmann, and C. R. Taylor

M. R. Harris, C. S. Kindle, A. F. Abruzzini, C. W. Pierce, and S. E. Cullen

Y.-W. Chen, E. B. Jacobson, and G. W. Siskind

N. Shastrl, D. J. Kawahara, A. Miller, and E. E. Sercarz

1190 Differences in Delayed-Type Hypersensitivity Responses in Various Mouse Strains in the C3H Lineage Infected with Salmonella typhimurium, Strain SL3235

1197 Ontogeny of B Cell Markers in the Human Fetal Liver

1202 Antigen Presentation by the BCL1 Murine B Cell Line: In Vitro Stimulation by LPS

1209 Ontogeny of B Lymphocyte Function. XV. A Role for Thymus Cells in the Maturation of the Capacity of a Subpopulation of B Cells to Re-express Surface Immunoglobulin after Treatment with Anti-Immunoglobulin

1215 Antigen-Specific T Helper Clones in a Nonresponder Strain Require Augmentation for Expression of Helper Activity; Evidence for a Possible Antigen Presentation Defect in B Cells

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

R. J. van de Griend, M. J. Giphart, B. A. van Krimpen, and R. L. H. Bolhuis

G. R. Burmester, B. Jahn, M. Gramatzki, J. Zacher, and J. R. Kalden

N. K. Damle, N. Mohagheghpour, and E. G. Englmer


H. H. Birdssall and R. D. Rossen


Y. Miyagawa

P. D. Zalewski, I. J. Forbes, L. Valente, and R. Comacchio

A. Muraguchi, K. Miyazaki, J. H. Kehrl, and A. S. Fauci

J. A. Brieva and R. H. Stevens

M. Zembala, W. Uracz, I. Ruggiero, and B. Mytarr

G. Nuñez, R. C. Giles, E. J. Ball, C. K. Hurley, J. D. Capra, and P. Stastny

C. K. Abrass and M. Hori

Y. Miyagawa

P. D. Zalewski, I. J. Forbes, L. Valente, and R. Comacchio

A. Muraguchi, K. Miyazaki, J. H. Kehrl, and A. S. Fauci

J. A. Brieva and R. H. Stevens

M. Zembala, W. Uracz, I. Ruggiero, and B. Mytarr

G. Nuñez, R. C. Giles, E. J. Ball, C. K. Hurley, J. D. Capra, and P. Stastny

C. K. Abrass and M. Hori

H. E. Prince, V. Kermani-Arab, and J. L. Fahey

K. R. Bray, M. E. Gershwin, T. Chused, and A. Ahmed

M. L. Miller, E. S. Raveche, C. A. Laskin, D. M. Klinman, and A. D. Steinberg

1222 Human T Cell Clones Exerting Multiple Cytolytic Activities Show Heterogeneity in Susceptibility to Inhibition by Monoclonal Antibodies

1230 Activated T Cells In Vivo and In Vitro: Divergence in Expression of Tac and Ia Antigens in the Nonblastoid Small T Cells of Inflammation and Normal T Cells Activated In Vitro

1235 Activation of Antigen-Specific Suppressor T Lymphocytes in Man Involves Dual Recognition of Self Class I MHC Molecules and LEU-4/T3-Associated Structures on the Surface of Inducer T Lymphocytes

1241 The Human Thymic Microenvironment: Cortical Thymic Epithelium Is an Antigenically Distinct Region of the Thymic Microenvironment

1250 Ta,, A Novel 105 KD Human T Cell Activation Antigen Defined by a Monoclonal Antibody

1257 Regulation of Antibody Release by Naturally Occurring Anti-Immunoglobulins in Cultures of Pokeweed Mitogen-Stimulated Human Peripheral Blood Lymphocytes

1265 Localization of Human Myeloid-Associated Surface Antigen Detected by a Panel of 20 Monoclonal Antibodies to the q12-qter region of Chromosome 11

1270 Further Characterization of IgM Antibodies against Maternal Alloreactive T Cells Produced by Cloned Epstein Barr Virus-Transformed Cord B Cells

1278 Mechanism of Induction of Mouse Erythrocye Receptor Switch in Human B Cells

1283 Inhibition of Human B Cell Activation by Diterpine Forskolin: Interference with B Cell Growth Factor-Induced G1 to S Transition of the B Cell Cycle

1288 Involvement of the Transferrin Receptor in the Production and NK-Induced Suppression of Human Antibody Synthesis

1293 Isolation and Functional Characteristics of FcR+ and FcR- Human Monocyte Subsets

1300 Expression of HLA-DR, MB, MT, and SB Antigens on Human Mononuclear Cells: Identification of Two Phenotypically Distinct Monocyte Populations

1307 Alterations in Fc Receptor Function of Macrophages from Streptozotocin-Induced Diabetic Rats

1313 Depressed Interleukin 2 Receptor Expression in Acquired Immune Deficiency and Lymphadenopathy Syndromes

1318 Characteristics of a Spontaneous Monoclonal Thymocytotoxic Antibody from New Zealand Black Mice; Recognition of a Specific NTA Determinant

1325 Genetic Studies in NZB Mice. VI. Association of Autoimmune Traits in Recombinant Inbred Lines

Continued on page 5
R. J. Booth and J. D. Watson
J. Ansel, T. A. Luger, A. Kock, D. Hochstein, and I. Green
L. N. McKernan and M. T. Largen
K. Kitamura, H. Nakauchi, S. Koyasu, I. Yahara, K. Okumura, and T. Tada
L. K. Curtiss, T. M. Forte, and P. A. Davis

Cleavage of Human Interleukin 1: Isolation of a Peptide Fragment from Plasma of Febrile Humans and Activated Monocytes

Growth of a Cloned Helper T Cell Line Induced by a Monoclonal Antibody Specific for the Antigen Receptor: Interleukin 1 Is Required for the Expression of Receptors for Interleukin 2

Interleukin 1 Induces Proliferation in Two Distinct B Cell Subpopulations Responsive to Two Different Murine B Cell Growth Factors

The Effect of In Vitro UV Irradiation on the Production of IL 1 by Murine Macrophages and P388D1 Cells

Interleukin 2 Receptors on an Insulin-Specific T Cell Line: Dynamics of Receptor Expression

Thymocyte Differentiation Activity from the Cloned Monocyte/Macrophage Cell Line RAW 264.7 Alterations in the Expression of Immature Thymocyte Surface Antigens

Characterization of an Antigen-Specific Suppressive Factor Derived from a Cloned Suppressor Effector T Cell Line

Cord Blood Plasma Lipoproteins Inhibit Mitogen-Stimulated Lymphocyte Proliferation

J. A. Werkmeister, G. F. Burns, and T. Triglia
G. F. Burns, J. A. Werkmeister, and T. Triglia
S. O. Hoch and P. B. Billings
S.-T. Ju and M. E. Dorf
D. M. Shaut, E. K. Wakeland, P. H. Maurer, and A. B. Peck
H. P. Godfrey, C. V. Angadi, R. A. Wolstencroft, and C. Bianco
T. J. Holzer, K. M. Edwards, H. Gewurz, and C. Mold
A. Sekizawa, T. Fujii, and S. Tochini
A. Sekizawa, T. Fujii, and C. Katagiri
J. J. Houle and E. M. Hoffman
S. Bhakdi and J. Tranum-Jensen
K. Hong, Y. Takata, K. Sayama, H. Kozono, J. Takeda, Y. Nakano, T. Kinoshita, and K. Inoue

Anti-Idiotypic Antibodies to the 9.1C3 Blocking Antibody Used to Probe the Lethal Hit Stage of NK Cell-Mediated Cytolysis

A Novel Antigenic Cell Surface Protein Associated with T200 Is Involved in the Post-Activation Stage of Human NK Cell-Mediated Lysis

Characterization of the La (SS-B) Antigen from Several Mammalian Sources

Preferential Induction of Specific λ-Isotypic Antibodies in Mice

Changes in the Ir Gene Controlled Response Phenotypes in Mice of the Aα and Aa Family of Alleles Expressing Naturally Occurring Variant Molecules

Localization of Macrophage Agglutination Factor Activity to the Gelatin-Binding Domain of Fibronectin

Binding of C-Reactive Protein to the Pneumococcal Capsule or Cell Wall Results in Differential Localization of C3 and Stimulation of Phagocytosis Membrane Receptors on Xenopus Macrophages for Two Classes of Immunoglobulins (IgM and IgY) and the Third Complement Component (C3)

Isolation and Characterization of the Third Component of Complement in the Serum of the Clawed Frog, Xenopus laevis

Evidence for Restriction of the Ability of Complement to Lyse Homologous Erythrocytes

On the Cause and Nature of C9-Related Heterogeneity of Terminal Complement Complexes Generated on Target Erythrocytes through the Action of Whole Serum

Inhibition of Immune Precipitation by Complement

Continued on page 6
### IMMUNOPHARMACOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. Harvath and R. R. Aksamit</td>
<td>1471</td>
<td>Oxidized N-formylmethionyl-leucyl-phenylalanine: Effect on the Activation of Human Monocyte and Neutrophil Chemotaxis and Superoxide Production</td>
</tr>
<tr>
<td>A. L. Sagone, Jr., R. Husney, H. Guter, and L. Clark</td>
<td>1488</td>
<td>Effect of Catalase on the Proliferation of Human Lymphocytes to Phorbol Myristate Acetate</td>
</tr>
<tr>
<td>J. S. Berman, R. G. McFadden, W. W. Cruikshank, D. M. Center, and D. J. Beer</td>
<td>1495</td>
<td>Functional Characteristics of Histamine Receptor-Bearing Mononuclear Cells. II. Identification and Characterization of Two Histamine-Induced Human Lymphokines that Inhibit Lymphocyte Migration</td>
</tr>
<tr>
<td>M. Iwata, M. Akasaki, and K. Ishizaka</td>
<td>1505</td>
<td>Modulation of the Biologic Activities of IgE Binding Factor. VI. The Activation of Phospholipase by Glycosylation Enhancing Factor</td>
</tr>
<tr>
<td>K. Furuchi, J. Rivera, and C. Isersky</td>
<td>1513</td>
<td>The Fate of IgE Bound to Rat Basophilic Leukemia Cells. III. Relationship between Antigen-Induced Endocytosis and Serotonin Release</td>
</tr>
<tr>
<td>I. M. Katona, J. F. Urban, Jr., J. A. Titus, D. A. Stephany, D. M. Segal, and F. D. Finkelman</td>
<td>1521</td>
<td>Characterization of Murine Lymphocyte IgE Receptors by Flow Microfluorometry</td>
</tr>
<tr>
<td>G. Marone, M. Columbo, L. Soppelsa, and M. Condorelli</td>
<td>1542</td>
<td>The Mechanism of Basophil Histamine Release Induced by Pepstatin A</td>
</tr>
<tr>
<td>S. Chamat, J. Hoebeke, and A. D. Strosberg</td>
<td>1547</td>
<td>Monoclonal Antibodies Specific for β-Adrenergic Ligands</td>
</tr>
</tbody>
</table>

### MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Jackson, T. M. Folks, D. L. Wetterskog, and T. J. Kindt</td>
<td>1553</td>
<td>A Rabbit Helper T CellClone Reactiveagainst Group-Specific Streptococcal Carbohydrate</td>
</tr>
<tr>
<td>S. G. Reed, J. A. Inverso, and S. B. Roters</td>
<td>1558</td>
<td>Heterologous Antibody Responses in Mice with Chronic T. cruzi Infection: Depressed T Helper Function Restored with Supernatants Containing Interleukin 2</td>
</tr>
<tr>
<td>R. L. Tarleton and R. E. Kuhn</td>
<td>1570</td>
<td>Restoration of In Vitro Immune Responses of Spleen Cells from Mice Infected with Trypanosoma cruzi by Supernatants Containing Interleukin 2</td>
</tr>
<tr>
<td>I. S. Barsoum, H. S. S. Dahawi, F. M. Gamil, M. Habib, M. A. El Alamy, and D. G. Colley</td>
<td>1576</td>
<td>Immune Responses and Immunoregulation in Relation to Human Schistosomiasis in Egypt. II. Cimetidine Reversal of Histamine-Mediated Suppression of Antigen-Induced Blastogenesis</td>
</tr>
<tr>
<td>R. Correa-Oliveira, A. Sher, and S. L. James</td>
<td>1581</td>
<td>Defective Vaccine-Induced Immunity to Schistosoma mansoni in P Strain Mice. I. Analysis of Antibody Responses</td>
</tr>
<tr>
<td>S. L. James, R. Correa-Oliveira, and E. J. Leonard</td>
<td>1587</td>
<td>Defective Vaccine-Induced Immunity to Schistosoma mansoni in P Strain Mice. II. Analysis of Cellular Responses</td>
</tr>
</tbody>
</table>

Continued on page 7
Continued from page 6

R. G. Titus, G. C. Lima, H. D. Engers, and J. A. Louis 1594 Exacerbation of Murine Cutaneous Leishmaniasis by Adoptive Transfer of Parasite-Specific Helper T Cell Populations Capable of Mediating Leishmania Major-Specific Delayed-Type Hypersensitivity

C. F. Ockenhouse, S. Schuman, and H. L. Shear 1601 Induction of Crisis Forms in the Human Malaria Parasite Plasmodium falciparum by γ-Interferon-Activated, Monocyte-Derived Macrophages


R. Epstein, R. Finberg, M. L. Powers, and H. L. Weiner 1614 Interaction of Reovirus with Cell Surface Receptors. IV. The Reovirus Type 3 Receptor is Expressed Predominantly on Murine Lyt-2,3* and Human T8* Cells

MOLECULAR BIOLOGY • MOLECULAR GENETICS

R. Sackstein and H. R. Colten 1618 Molecular Regulation of MHC Class III (C4 and Factor B) Gene Expression in Mouse Peritoneal Macrophages

Y. Argon and C. Milstein 1627 Intracellular Processing of Membrane and Secreted Immunoglobulin δ-Chains

TUMOR IMMUNOLOGY


P. Giacomini, A. Aguzzi, S. Pestka, P. B. Fisher, and S. Ferrone 1649 Modulation by Recombinant DBA Leukocyte (a) and Fibroblast (B) Interferons of the Expression and Shedding of HLA- and Tumor-Associated Antigens by Human Melanoma Cells


S. K. Ghosh and R. B. Bankert 1677 Generation of Heavy Chain-Loss Mutants in a B Cell Hybrid Mediated by Syngeneic Idiotype-Specific Spleen Cells

Letters 1683
Announcements 1684
Erratum 1687
Author Index 1688