Contents

CELLULAR IMMUNOLOGY

A. E. Postlethwaite and A. H. Kang

Latent Lymphokines: Isolation of Guinea Pig Latent Lymphocyte-Derived Chemotactic Factor for Monocytes: Its Activation by Trypsin and a Soluble Factor from Macrophages

M. J. Stadecker and E. R. Unanue

The Regulation of Thymidine Secretion by Macrophages

A. C. Stern, P. Erb, and R. H. Gisler

Ia-Bearing Bone Marrow-Cultured Macrophages Induce Antigen-Specific Helper T Cells for Antibody Synthesis

G. Fernandes, F. Carandente, E. Halberg, F. Halberg, and R. A. Good

Circadian Rhythm in Activity of Lympholytic Natural Killer Cells from Spleens of Fischer Rats

A. Kijlstra, L. A. van Es, and M. R. Daha

Effects of C1 on the Size of Soluble Immune Aggregates and on Their Processing by Macrophages

F. UytdeHaag, C. J. Heijn, K. H. Pot, and R. E. Ballieux

The Chicken’s Femoral-Lymph Nodules: T and B Cells and the Immune Response

F. M. McCorkle, R. S. Stinson, I. Olah, and B. Glick

IgG-Recruiting Component (GRC): B Cell-Derived Signal for IgG Antibody Synthesis

S. M. Hinchman and J. R. Battisto

Cloning of B Cells Positive or Negative for Surface IgD. I. Triggering and Tolerance in T-Independent Systems

J. E. Layton, J. M. Teale, and G. J. V. Nossal

Cloning of B Cells Positive or Negative for Surface IgD. II. Triggering and Tolerance in the T-Dependent Splenic Focus Assay


Interaction between T Cells and Non-T Cells in Suppression of Cytotoxic Lymphocyte Responses

R. Auerbach and Y. A. Sidky

Nature of the Stimulus Leading to Lymphocyte-Induced Angiogenesis

D. W. Thomas, S. K. Meltz, and G. D. Wilner

Nature of T Lymphocyte Recognition of Macrophage-Associated Antigens. I. Response of Guinea Pig T Cells to Human Fibrinopeptide B

M. Hansson, K. Karre, R. Kiesel, J. Roder, B. Andersson, and P. Hayry

Natural NK-Cell Targets in the Mouse Thymus: Characteristics of the Sensitive Cell Population

K. Shortman and P. Golstein

Target Cell Recognition by Cytolytic T Cells: Different Requirements for the Formation of Strong Conjugates or for Proceeding to Lysis

D. E. Tracey

The Requirement for Macrophages in the Augmentation of Natural Killer Cell Activity by BCG

A. H. Greenberg and P. M. Lydyard

Observations of IgG1 Anti-DNP Hybridoma-Mediated ADCC and the Failure of Three IgM Anti-DNP Hybridomas to Mediate ADCC

M. Suemura and K. Ishizaka

Potentiation of IgE Response in Vitro by T Cells from Rats Infected with Nippostrongylus brasiliensis

D. C. Parker, J. J. Fothergill, and D. C. Wadsworth

B Lymphocyte Activation by Insoluble Anti-immunoglobulin: Induction of Immunoglobulin Secretion by a T Cell-Dependent Soluble Factor

CLINICAL IMMUNOLOGY

T. Ishizaka, A. R. Sterk, and K. Ishizaka

Demonstration of Fcy Receptors on Human Basophil Granulocytes

T. Sakane and I. Green

Specificity and Suppressor Function of Human T Cells Responsive to Autologous Non-T Cells

R. H. Tomar and P. A. John

Mononuclear Cells Contain Human Transfer Factor as Assayed Locally on the Skin of Dogs

D. O. Thueson, L. S. Speck, M. A. Lett-Brown, and J. A. Grant

Histamine-Releasing Activity (HRA). I. Production by Mitogen- or Antigen-Stimulated Human Mononuclear Cells

D. O. Thueson, L. S. Speck, M. A. Lett-Brown, and J. A. Grant

Histamine-Releasing Activity (HRA). II. Interaction with Basophils and Physicochemical Characterization

B. Perussia, G. Trinchieri, and J. C. Cerottini

Functional Studies of Fc Receptor-Bearing Human Lymphocytes: Effect of Treatment with Proteolytic Enzymes
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Role of Cyclic AMP in Modulating Cytotoxic T Lymphocytes. I. In Vivo-Generated Cytotoxic Lymphocytes, But Not In Vitro-Generated Cytotoxic Lymphocytes, Are Inhibited by Cyclic AMP-Active Agents</td>
<td>692</td>
</tr>
<tr>
<td>Fc Receptors for IgA on Human B and Human Non-B, Non-T Lymphocytes</td>
<td>714</td>
</tr>
<tr>
<td>Cyclic Nucleotide Phosphodiesterase Activity in Human Peripheral Blood Lymphocytes and Monocytes</td>
<td>725</td>
</tr>
<tr>
<td>Effects of Concanavalin A-Induced Cells on the Proliferative Response of T Cells. I. Concanavalin A-Induced Suppressor and Amplifier Cells to the Proliferative Response of Human T Cells to Trinitrophenyl-Modified Autologous Lymphocytes</td>
<td>772</td>
</tr>
<tr>
<td>Fractionation of Human Lymphocytes with Plant Lectins. II. <em>Lens culinaris</em> Lectin and Wheat Germ Agglutinin Identify Distinct Lymphocyte Subclasses</td>
<td>806</td>
</tr>
<tr>
<td>Cyclic AMP-Dependent Protein Kinase Activation and the Induction of Ornithine Decarboxylase during Lymphocyte Mitogenesis</td>
<td>817</td>
</tr>
<tr>
<td>Activation of Human B Lymphocytes. XIV. Characterization of the Precursor of the Pokeweed Mitogen-Induced Anti-Sheep Red Blood Cell Plaque-Forming Cell</td>
<td>890</td>
</tr>
</tbody>
</table>

**IMMUNOCHEMISTRY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complement Receptor Binding of C3b-Coated Cells Treated with C3b Inactivator, ( \beta )1H Globulin and Trypsin</td>
<td>523</td>
</tr>
<tr>
<td>The Alternative Pathway C3/C5 Convertase: Chemical Basis of Factor B Activation</td>
<td>529</td>
</tr>
<tr>
<td>Complement-Mediated Solubilization of Immune Precipitates Prepared with Antibodies of Different Avidity</td>
<td>535</td>
</tr>
<tr>
<td>Characterization of Functional Fc-Receptor Material from Human Lymphoblastoid Cell Lines. II. Serologic and Cellular Analysis</td>
<td>543</td>
</tr>
<tr>
<td>Role of Surface IgM and IgD in the Functional Differentiation of Human B Lymphocytes: Effect of Papain Treatment</td>
<td>557</td>
</tr>
<tr>
<td>C3e: An Acidic Fragment of Human C3 with Leukocytosis-Inducing Activity</td>
<td>616</td>
</tr>
<tr>
<td>Immunoglobulin Classes Implicated in Intestinal Disturbances of Calves Associated with Soya Protein Antigens</td>
<td>676</td>
</tr>
<tr>
<td>Further Evidence for the Antibody Nature of C3 Nephritic Factor (C3NeF)</td>
<td>755</td>
</tr>
<tr>
<td>Active Disassembly of the First Complement Component, C1, by C1 Inactivator</td>
<td>788</td>
</tr>
<tr>
<td>Sequentially Derived Mutants of the Constant Region of the Heavy Chain of Murine Immunoglobulins</td>
<td>793</td>
</tr>
<tr>
<td>Idiotypic Analysis of Anti-GAT Antibodies. V. Distribution of an Interspecies Cross-Reactive Idiotype</td>
<td>877</td>
</tr>
<tr>
<td>IgD is Present on the Cell Surface of Murine Lymphocytes in Two Forms: ( \delta )L2 and ( \delta )L</td>
<td>896</td>
</tr>
<tr>
<td>Membrane Immunoglobulin is Present on Thymic and Splenic Lymphocytes of the Trout <em>Salmo gairdneri</em></td>
<td>910</td>
</tr>
<tr>
<td>The Relationship Between Surface Immunoglobulin Isotype and Immune Function of Murine B Lymphocytes. IV. Role of IgD-Bearing Cells in the Propagation of Immunologic Memory</td>
<td>925</td>
</tr>
</tbody>
</table>

**IMMUNOGENETICS AND TRANSPLANTATION**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Trypsin Cleavage Distinguishes MHC and Thymus-Leukemia Antigens</td>
<td>551</td>
</tr>
<tr>
<td>The Role of H-2-Linked Genes in Helper T Cell Function. V. ( \beta )-Region Control of Helper T Cell Interaction with Antigen-Presenting Macrophages</td>
<td>654</td>
</tr>
<tr>
<td>H-2-Linked ( \beta )-Gene Control of Antibody Responses to Insulin. I. Anti-insulin Plaque-Forming Cell Primary Responses</td>
<td>670</td>
</tr>
<tr>
<td>The Association of Immune Responsiveness, Mixed Lymphocyte Responses, and ( \alpha ) Antigens in Natural Populations of Norway Rats</td>
<td>778</td>
</tr>
<tr>
<td>Ia Antigens in Mouse Skin are Predominantly Expressed on Langerhans Cells</td>
<td>784</td>
</tr>
<tr>
<td>Modulation of Natural Cytotoxicity by Alloantibodies. I. Alloantisera Enhancement of Cytotoxicity of Mouse Spleen Cells Toward a Human Myeloid Cell Line</td>
<td>846</td>
</tr>
</tbody>
</table>

*Continued on page 4*
Continued from page 3

G. F. Dancey, J. Cutler, and B. D. Schwartz

G. B. Ahmann, P. I. Nadler, A. Birnkrant, and R. J. Hodes

S. Slavin and S. Strober

---

**IMMUNOPATHOLOGY**

N. M. Hadler, J. K. Spitznagel, and R. J. Quinet

D. Senitzer, W. Cafruny, R. Rae-der, and E. H. Freimer

S. L. Wechsler, H. L. Weiner, and B. N. Fields

---

**TUMOR IMMUNOLOGY**

P. D. Greenberg, M. Cheever, and A. Fefer

P. C. Levy, G. M. Shaw, and A. F. LoBuglio

J. J. Mulé, F. R. Jones, I. Hellstrom, and K. E. Hellstrom

E. Lotzová and J. U. Gutterman

B. S. Kim, W. Liang, and E. P. Cohen

B. S. Kim

C-C. Ting and D. Rodrigues

F. Plata, H. R. MacDonald, and B. Shain

---

**VIRAL AND MICROBIAL**

F. J. Ramalho-Pinto, S. R. Smithers, and J. H. L. Playfair


---

**COMMUNICATIONS**

S. Natsuume-Sakai, J-I. Hayakawa, S. Amano, and M. Takeda

J. J. Ellner and A. A. F. Mahmoud

F. D. Finkelman, S. W. Kessler, and I. Scher

J. F. Burdick, S. V. Jooste, and H. J. Winn

Announcements

Erratum

Author Index