Contents

CELLULAR IMMUNOLOGY


J. Yodoi, M. Hirashima, and K. Ishizaka 1436 Regulatory Role of IgE-Binding Factors from Rat T Lymphocytes. II. Glycoprotein Nature and Source of IgE-Potentiating Factor

M. Hirashima, J. Yodoi, and K. Ishizaka 1442 Regulatory Role of IgE-Binding Factors from Rat T Lymphocytes. III. IgE-Specific Suppressive Factor with IgE-Binding Activity

L. K. Curtiss and T. S. Edgington 1470 Differences in the Characteristics of Inhibition of Lymphocyte Stimulation by 25-Hydroxycholesterol and by the Immunoregulatory Serum Lipoprotein LDL-In

P. H. Brodeur and H. H. Wortis 1499 Regulation of Thymus-Independent Responses: Unresponsiveness to a Second Challenge of TNP-Ficoll is Mediated by Hapten-Specific Antibodies

R. O. Endres and H. M. Grey 1515 Antigen Recognition by T Cells. I. Suppressor T Cells Fail to Recognize Cross- Reactivity between Native and Denatured Ovalbumin

R. O. Endres and H. M. Grey 1521 Antigen Recognition by T Cells. II. Intravenous Administration of Native or Denatured Ovalbumin Results in Tolerance to Both Forms of the Antigen


T. Nagaki, N. Moriya, T. Miya- waki, H. Seki, M. Kubo, T. Yo- koi, N. Okuda, and N. Taniguchi 1589 Interferon Production by Human and Murine Lymphocytes in Response to Alloantigens

M. E. Sunday, J. Z. Weinberger, B. Benacerraf, and M. E. Dorf 1601 Hapten-Specific T Cell Responses to 4-Hydroxy-3-Nitrophenyl Acetyl. IV. Specificity of Cutaneous Sensitivity Responses

M. L. Thoman, E. L. Morgan, and W. O. Weigle 1630 Polyclonal Activation of Murine B Lymphocytes by Fc Fragments. II. Replacement of T Cells by a Soluble Helper T Cell-Replacing Factor (TRF)

I. Scher, A. K. Berning, S. Kessler, and F. D. Finkelman 1686 Development of B Lymphocytes in the Mouse; Studies of the Frequency and Distribution of Surface IgM and IgD in Normal and Immune-Defective CBA/N F, Mice

L. Varesio and H. T. Holden 1694 Regulation of Lymphocyte Activation: Macrophage-Dependent Suppression of T Lymphocyte Protein Synthesis

J. London 1702 Peanut Agglutinin. VI. Identification of Murine T Lymphocyte Subsets during Ontogeny by Use of Peanut Agglutinin and Ly-6.2 Antiserum


K. Bendtzen and R. E. Rocklin 1775 Use of Benzoyl-L-Phenylalanyl-L-Valyl-L-Arginine (H) Methyl Ester as a Sensitive and Selective Substrate for the Human Lymphokine, Leukocyte Migration Inhibitory Factor (LIF)

K. Kline and B. G. Sanders 1792 Developmental Profile of Chicken Splenic Lymphocyte Responsiveness to Con A and PHA and Studies on Chicken Splenic and Bone Marrow Cells Capable of Inhibiting Mitogen-Stimulated Blastogenic Responses of Adult Splenic Lymphocytes

K. Suzuki and T. B. Tomasi, Jr. 1806 Mechanism of Immune Suppression by Murine Neonatal Fluids

J. Vives, D. E. Parks, and W. O. Weigle 1811 Immunologic Unresponsiveness after Gastric Administration of Human γ-Globulin: Antigen Requirements and Cellular Parameters

J. R. Ortaldo, W. Phillips, K. Wasserman, and R. B. Herberman 1839 Effects of Metabolic Inhibitors on Spontaneous and Interferon-Boosted Human Natural Killer Cell Activity

H. W. Steer 1845 An Analysis of the Lymphocyte Content of Rat Lacteals

H. Braley-Mullen 1849 Direct Demonstration of Specific Suppressor T Cells in Mice Tolerant to Type III Pneumococcal Polysaccharide: Two-Step Requirement for Development of Detectable Suppressor Cells

D. H. Sherr, B. Benacerraf, and M. E. Dorf 1862 Immune Suppression in Vivo with Antigen-Modified Syngeneic Cells. V. Interacting T Cell Subpopulations in the Suppressor Pathway

Continued on page 4
Continued from page 3

CLINICAL IMMUNOLOGY

A. Bacigalupo, M. Podesta, M. C. Mingari, L. Moretta, M. T. Van Lint, and A. Marmont

M. C. Udey, D. D. Chaplin, H. J. Wedner, and C. W. Parker


M. Sumiya, S. Kano, N. Gonda, A. J. Tenner, and N. R. Cooper

C. F. Tam and R. L. Walford

P. Stashenko, L. M. Nadler, R. Hardy, and S. F. Schlossman

H. Northoff, C. Carter, and J. J. Oppenheim

1449 Immune Suppression of Hematopoiesis in Aplastic Anemia: Activity of T-γ Lymphocytes

1544 Early Activation Events in Lectin-Stimulated Human Lymphocytes: Evidence That Wheat Germ Agglutinin and Mitogenic Lectins Cause Similar Early Changes in Lymphocyte Metabolism

1578 The Expression of Deoxyguanosine Toxicity in T Lymphocytes at Different Stages of Maturation

1625 Generation of Autoreactive Cytotoxic Lymphocytes by Spontaneously Established Autologous Lymphoblastoid Cell Line

1658 Analysis of Receptor-Mediated C1q Binding to Human Peripheral Blood Mononuclear Cells

1665 Alterations in Cyclic Nucleotides and Cyclase-Specific Activities in T Lymphocytes of Aging Normal Humans and Patients with Down’s Syndrome

1678 Characterization of a Human B Lymphocyte-Specific Antigen

1823 Inhibition of Concanavalin A-Induced Human Lymphocyte Mitogenic Factor (Interleukin-2) Production by Suppressor T Lymphocytes

IMMUNOCHEMISTRY

D. Geltner, E. C. Franklin, and B. Frangione

B. W. Elliott, Jr., B. Friedenson, and K. L. Knight

Z. K. Ballas and R. C. Kuppers

M. R. Ruff and G. E. Gifford

K-I. Yamamoto

D. C. Hoessli and P. Vassalli

D. E. Isenman, J. S. Sundsmo, and N. R. Cooper

B. Dunlap, P. F. Mixter, B. Koller, A. Watson, M. B. Widmer, and F. H. Bach

1530 Antiidiotypic Activity in the IgM Fractions of Mixed Cryoglobulins

1611 Free Sulphydryl Groups of Rabbit Secretory IgA

1644 Naturally Occurring Antibodies Directed to TNBS-Modified Cell Surface but Not the Trinitrophenyl Moiety

1671 Purification and Physico-chemical Characterization of Rabbit Tumor Necrosis Factor

1745 Proteolysis of the C5b-7 Complex: Cleavage of the C5b and C6 Subunits and Its Effect on the Interaction of the Complex with Phospholipid Bilayers

1758 High Molecular Weight Surface Glycoproteins of Murine Lymphocytes

1798 The Effects of Mild Reduction on the Structure and Function of C3

1829 Molecular Relationships between Large Membrane Proteins (LMP) Expressed on T and B Lymphocytes

IMMUNOGENETICS AND TRANSPLANTATION

B. Boyer, S. Giselbrecht, P. Debre, I. McKenzie, and J. P. Levy

V. Quaranta, L. E. Walker, M. A. Pellegrino, and S. Ferrone

Y. Tanaka, K. Sugamura, Y. Hinuma, H. Satô, and K. Okochi

S. J. Burakoff, J. Riccio, P. Billings, B. Benacerraf, and M. E. Dorf

J. P. Moosic, A. Nilson, G. J. Hammerling, and D. J. McKeon

A. Altman and D. H. Katz

P. J. Morrissey, D. R. Parkinson, R. S. Schwartz, and S. D. Waksal

K. Tomonari, A. Wakisaka, and M. Aizawa

1415 Genetic Control of Sensitivity to Moloney Leukemia Virus in Mice. IV. Phenotypic Heterogeneity of the Leukemic Mice

1421 Purification of Immunologically Functional Subsets of Human Ia-Like Antigens on a Monoclonal Antibody (Q5/13) Immunoabsorbent

1426 Memory of Epstein-Barr Virus-Specific Cytotoxic T Cells in Normal Seropositive Adults as Revealed by an in Vitro Restimulation Method

1432 Genetic Control of Cytolytic T Lymphocyte Responses. III. The Role of K and I Region Alleles on the Specificity of the Cytolytic T Lymphocyte Response to Trinitrophenyl-Modified Syngeneic Cells

1463 Biochemical Characterization of Ia Antigens. I. Characterization of the 31K Polypeptide Associated with I-A Subregion Ia Antigens

1536 Existence of T Cells Manifesting Self-Reactivity Indistinguishable from Alloreactivity

1558 Immune Abnormalities in HRS/J Mice. I. Specific Deficit in T Lymphocyte Helper Function in a Mutant Mouse

1596 Self Recognition by Autologous Mixed Lymphocyte Reaction-Primed Cells

Continued on page 5
Continued from page 4

P. M. Hogarth, T. A. Potter, F. N. Cornell, R. McChlan, and I. F. C. McKenzie

Y. T. Kim, A. Schwartz, C. Moody, G. W. Siskind, and M. E. Wessler

T. G. Wegmann, J. Rosovsky, G. A. Carlson, E. Diener, and D. W. Drell

S. M. Hedrick and J. Watson

R. P. Polisson and G. M. Shearer

1618 Monoclonal Antibodies to Murine Cell Surface Antigens. I. Lyt-1.1

1724 Regulation of Immune Response in Allogeneic Mixed Spleen Cell Cultures. I. Influence of I-Region on the Generation of Suppressor Cells

1751 Models for the Production of Stable Hematopoietic Chimerism across Major Histocompatibility Barriers in Adults

1782 Genetic Control of the Immune Response to Collagen. III. Coordinate Restriction of Cellular Cooperation and Antigen Responsiveness by Thymus-Directed Maturation

1855 Mutual Recognition of Parental and F1 Lymphocytes. II. Analysis of Graft-vs-Host-Induced Suppressor Cell Activity for T Cell-Mediated Lympholysis to Trinitrophenyl Self and Alloantigens

IMMUNOPATHOLOGY

H. E. L. Jacobse-Geels, M. R. Daha, and M. C. Horzinek

C. Y. Lau, J. A. Freestone, and G. Goldstein

E. G. Neilson, S. A. Jimenez, and S. M. Phillips

E. J. Goetzl and W. C. Pickett

B. F. Driscoll, M. W. Kies, and E. C. Alvord, Jr.

L. H. Glimcher, A. D. Steinberg, S. B. House, and I. Green

1606 Isolation and Characterization of Feline C3 and Evidence for the Immune Complex Pathogenesis of Feline Infectious Peritonitis

1634 Effect of Thymopoietin Pentapeptide (TP5) on Autoimmunity. I. TP5 Suppression of Induced Erythrocyte Autoantibodies in C3H Mice

1708 Cell-Mediated Immunity in Interstitial Nephritis. III. T Lymphocyte-Mediated Fibroblast Proliferation and Collagen Synthesis: An Immune Mechanism for Renal Fibrogenesis

1789 The Human PMN Leukocyte Chemotactic Activity of Complex Hydroxy-Eicosa-tetraenoic Acids (HETEs)

1817 Enhanced Transfer of Experimental Allergic Encephalomyelitis with Strain 13 Guinea Pig Lymph Node Cells: Requirement for Culture with Specific Antigen and Allogeneic Peritoneal Exudate Cells

1832 The Autologous Mixed Lymphocyte Reaction in Strains of Mice with Autoimmune Disease

TUMOR IMMUNOLOGY

N. Bhoopalam, P. Heller, N. Meyerstein, and L. Hall


M. T. Lotze, B. R. Line, D. J. Mathisen, and S. A. Rosenberg

J. Ritz, J. M. Pesando, J. Notis-McConarty, and S. F. Schlossman

C. M. Macek, B. D. Kahan, and N. R. Pelis

E. S. Dye and R. J. North

C. W. Stackpole, P. Cremona, C. Leonard, and P. Stremmel


A. E. Eggers, C. A. Hibbard, C. I. Civin, and J. R. Wunderlich

1454 Effect of Dextran-S (α,1-3 Dextran) on the Growth of Plasmacytomas MOPC-104 E and J558

1481 Characterization of Cloned Murine Cytolytic T Cell Lines

1487 The in Vivo Distribution of Autologous Human and Murine Lymphoid Cells Grown in T Cell Growth Factor (TCGF): Implications for the Adoptive Immunotherapy of Tumors

1506 Modulation of Human Acute Lymphoblastic Leukemia Antigen Induced by Monoclonal Antibody in Vitro

1639 Delayed Hypersensitivity to Crude and Partially Purified Murine Tumor-Specific Transplantation Antigens and Alloantigens Utilizing the Footpad Swelling Assay

1650 Macrophage Accumulation in Murine Ascites Tumors. I. Cytotoxin-Induced Domiance of Macrophages over Tumor Cells and the Anti-tumor Effect of Endotoxin Antigenic Modulation as a Mechanism for Tumor Escape from Immune Destruction: Identification of Modulation-Positive and Modulation-Negative Mouse Lymphomas with Xenoantisera to Murine Leukemia Virus gp70

1730 Mechanism of B Cell Lymphoma Immunotherapy with Passive Xenogeneic Anti-Idiotypic Serum

1377 Chemical Enhancement of Tumor Immunogenicity

Continued on page 6
### VIRAL AND MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y. Katsura, M. Takaoki, Y. Kono, and N. Minato</td>
<td>1459</td>
</tr>
<tr>
<td>M. Rola-Pleszczynski</td>
<td>1475</td>
</tr>
<tr>
<td>R. T. Ogata and R. P. Levine</td>
<td>1494</td>
</tr>
<tr>
<td>A. H. Hale and M. J. Ruebush</td>
<td>1569</td>
</tr>
</tbody>
</table>

### COMMUNICATION

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. H. Roos, D. C. Shreffler, and S. Kornfeld</td>
<td>1869</td>
</tr>
</tbody>
</table>

### LETTERS TO THE EDITOR

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Snyderman and M. C. Pike</td>
<td>1872</td>
</tr>
<tr>
<td>M. S. Meltzer</td>
<td>1873</td>
</tr>
<tr>
<td>Announcements</td>
<td>1874</td>
</tr>
<tr>
<td>Erratum</td>
<td>1875</td>
</tr>
<tr>
<td>Author Index</td>
<td>1876</td>
</tr>
</tbody>
</table>