Contents

COMMENTARY

M. F. Good
1715 T Cells, T Sites, and Malaria Immunity—Further Optimism for Vaccine Development

CELLULAR IMMUNOLOGY

1717 Graft-Versus-Host Reaction-Induced Immune Modulation. I. Donor-Recipient Genetic Disparity and the Differential Expression of Lyt-2, L3T4, and Ly-6 during Acute Reactions in the Host Thymus

S. R. Abromson-Leeman, J. C. Laning, and M. E. Dorf
1726 T Cell Recognition of Mls" Determinants

P. Anderson, M.-L. Blue, and S. F. Schlossman
1732 Comodulation of CD3 and CD4: Evidence for a Specific Association between CD4 and Approximately 5% of the CD3:T Cell Receptor Complexes on Helper T Lymphocytes

O. Baadsgaard, D. A. Fox, and K. D. Cooper
1738 Human Epidermal Cells from Ultraviolet Light-Exposed Skin Preferentially Activate Autoreactive CD4"2H4" Suppressor-Inducer Lymphocytes and CD8" Suppressor/Cytotoxic Lymphocytes

D. Blanchard, C. Van Els, J.-P. Aubry, J. E. de Vries, and H. Spits
1745 CD4 Is Involved in a Post-Binding Event in the Cytolytic Reaction Mediated by Human CD4" Cytotoxic T Lymphocyte Clones

N. K. Damle, L. V. Doyle, L. S. Grosmaire, and J. A. Ledbetter
1753 Differential Regulatory Signals Delivered by Antibody Binding to the CD28 (Tb44) Molecule during the Activation of Human T Lymphocytes

R. Jemmerson and R. Blankfeld
1762 Clonal Analysis of the BALB/c Secondary B Cell Repertoire Specific for a Self-Antigen, Cytochrome c

K. P. Kearse, D. R. Cassatt, A. M. Kaplan, and D. A. Cohen
1770 The Requirement for Surface Ig Signaling as a Prerequisite for T Cell:B Cell Interactions: a Possible Role for Desialylation

G. C. Miescher, R. C. Howe, R. K. Lees, and H. R. MacDonald
1779 CD3-Associated a/b and g/b Heterodimeric Receptors Are Expressed by Distinct Populations of CD4" CD8" Thymocytes

S. R. S. Gottesman, J. M. Edington, and G. J. Thorbecke
1783 Proliferative and Cytotoxic Immune Functions in Aging Mice. IV. Effects of Suppressor Cell Populations from Aged and Young Mice

A. Pezzutto, P. S. Rabinovitch, B. Dörken, G. Moldenhauer, and E. A. Clark
1791 Role of the CD22 Human B Cell Antigen in B Cell Triggering by Anti-immunoglobulin

1796 Antigen as a Positive and Negative Regulator of Proliferation in Cytotoxic Lymphocytes: a Model for the Differential Regulation of Proliferation and Lytic Activity

Continued on page 4
### CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802</td>
<td>A T Cell Surface Molecule Different from CD2 Is Involved in Spontaneous Rosette Formation with Erythrocytes</td>
</tr>
<tr>
<td>1808</td>
<td>Recognition of Hepatitis B Surface Antigen by Human T Lymphocytes: Proliferative and Cytotoxic Responses to a Major Antigenic Determinant Defined by Synthetic Peptides</td>
</tr>
<tr>
<td>1816</td>
<td>Clearance and Organ Localization of Small DNA Anti-DNA Immune Complexes in Mice</td>
</tr>
<tr>
<td>1823</td>
<td>Effects of Tobacco Glycoprotein (TGP) on the Immune System. II. TGP Stimulates the Proliferation of Human T Cells and the Differentiation of Human B Cells into Ig Secreting Cells</td>
</tr>
<tr>
<td>1830</td>
<td>Specificity of the T Cell Immune Response to Acetylcholine Receptor in Experimental Autoimmune Myasthenia Gravis: Response to Subunits and Synthetic Peptides</td>
</tr>
<tr>
<td>1838</td>
<td>Detection of Arthritogenic Factor in Adjuvant Arthritis</td>
</tr>
</tbody>
</table>

### CYTOKINES • MEDIATORS • REGULATORY MOLECULES

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1883</td>
<td>Endothelial Activation during Interleukin 2 Immunotherapy: a Possible Mechanism for the Vascular Leak Syndrome</td>
</tr>
<tr>
<td>1889</td>
<td>Recombinant Murine IL-3 Fails to Stimulate T or B Lymphopoiesis in Vivo, but Enhances Immune Responses to T Cell-Dependent Antigens</td>
</tr>
<tr>
<td>1895</td>
<td>Analysis of the Suppression of IL-1α and IL-1β Production in Human Peripheral Blood Mononuclear Adherent Cells by a Glucocorticoid Hormone</td>
</tr>
<tr>
<td>1903</td>
<td>Increased Binding of IL-2 and Increased IL-2 Receptor mRNA Synthesis Are Expressed by an NK-Like Cell Line in Response to IL-1</td>
</tr>
<tr>
<td>1910</td>
<td>Response of Resident Murine Peritoneal Macrophages to in Vivo Administration of Granulocyte-Macrophage Colony-Stimulating Factor</td>
</tr>
<tr>
<td>1916</td>
<td>Expression of the Tumor Necrosis Factor Locus Is Not Necessary for the Cytolytic Activity of T Lymphocytes</td>
</tr>
</tbody>
</table>
C. Mold, G. R. Nemerow, B. M. Bradt, and N. R. Cooper
1923 CR2 Is a Complement Activator and the Covalent Binding Site for C3 during Alternative Pathway Activation by Raji Cells

M. K. Newell, L. B. Justement, C. R. Miles, and J. H. Freed
1930 Biochemical Characterization of Proteins That Co-Purify with Class II Antigens of the Murine MHC

1939 Role of C3 in Humoral Immunity: Defective Antibody Production in C3-Deficient Dogs

---

R. Alam, D. M. Lewis, and S. A. Olenczock
1946 Production and Properties of Histamine-Releasing Factor of Guinea Pigs

D. J. Heavey, P. B. Ernst, R. L. Stevens, A. D. Befus, J. Bienenstock, and K. F. Austen
1953 Generation of Leukotriene C4, Leukotriene B4, and Prostaglandin D2 by Immunologically Activated Rat Intestinal Mucosa Mast Cells

M. Peters-Golden and C. Shelly
1958 Inhibitory Effect of Exogenous Arachidonic Acid on Alveolar Macrophage 5-Lipoxygenase Metabolism: Role of ATP Depletion

M. C. Pike and C. Arndt
1967 Characterization of Phosphatidylinositol and Phosphatidylinositol-4-Phosphate Kinases in Human Neutrophils

1974 Direct Human T Helper Cell-Induced B Cell Activation Is Not Mediated by Inositol Lipid Hydrolysis

D. M. Howell and E. Martz
1982 Low Calcium Concentrations Support Killing by Some but Not All Cytolytic T Lymphocytes, and Reveal Inhibition of a Postconjugation Step by Calcium Antagonists

---

D. A. Brake, C. A. Long, and W. P. Weldenaz
1989 Adoptive Protection against Plasmodium chabaudi adami Malaria in Athymic Nude Mice by a Cloned T Cell Line

D. M. Fishwild, C. J. Benike, and E. G. Engleman
1994 Activation of HLA-Restricted EBV-Specific Cytotoxic T Cells Does Not Require CD4+ (Helper) T Cells or Exogenous Cytokines

1999 Cell-Mediated Immune Responses in Human Infection with Onchocerca volvulus

M. George and I. van de Rijn
2008 Nutritionally Variant Streptococcal Serotype I Antigen: Characterization as a Lipid-Substituted Poly(Ribitol Phosphate)

S. F. Grammer, G. Y. Ishioka, and R.W. Chesnut
2016 Studies on the Capacity of B Cells As Well As T Cells to Serve As Accessory Cells for the Activation of Herpes Simplex Virus-Specific Cytolytic T Cells

2023 Identification of Antigens and Antibodies Specific for Pneumocystis carinii

R. B. Lal and E. A. Ottesen
2032 Characterization of Stage-Specific Antigens of Infective Larvae of the Filarial Parasite Brugia malayi

R. B. Markham and W. G. Powederly
2039 Exposure of Mice to Live Pseudomonas aeruginosa Generates Protective Cell-Mediated Immunity in the Absence of an Antibody Response

S. Shak, M. A. Davitz, M. L. Wolinsky, V. Nussenzweig, M. J. Turner, and A. Gurnett
2046 Partial Characterization of the Cross-Reacting Determinant, a Carbohydrate Epitope Shared by Decay Accelerating Factor and the Variant Surface Glycoprotein of the African Trypanosoma brucei

Continued on page 6
Continued from page 5

D. S. Strayer, K. Korber, and J. Dombrowski
D. S. Strayer, J. Mulloy, and J. L. Leibowitz
A. Suzumura, E. Lavi, S. Bhat, D. Murasko, S. R. Weiss, and D. H. Silberberg

2051  Immunosuppression during Viral Oncogenesis. IV. Generation of Soluble Virus-Induced Immunologic Suppressor Molecules
2060  Lympocyte-Virus Interactions: Identification of a Restriction Fragment Permitting Virus Replication in Lymphocytes
2068  Induction of Glial Cell MHC Antigen Expression in Neurotropic Coronavirus Infection: Characterization of the H-2-Inducing Soluble Factor Elaborated by Infected Brain Cells

MOLECULAR BIOLOGY • MOLECULAR GENETICS

Y. Bergman and D. Shavit

2073  Regulation of the Ig κ-Chain Enhancer by the Edenvirus E1A Gene Products: Repression in Lymphoid Cells, Activation in Fibroblasts
2081  Cell Surface Expression of the Amino-Terminal Domain of A2: Recognition of an Isolated MHC Antigenic Structure by Allospecific T Cells but Not Alloantibodies

TUMOR IMMUNOLOGY

S. I. Abrams and Z. Brahmi
E. Gorelik, Y. Gunji, and R. B. Herberman
F. M. Uckun, D. E. Myers, J. A. Ledbetter, S. E. Swaim, K. J. Gajl-Peczalska, and D. A. Vallera

2090  Target Cell Directed NK Inactivation: Concomitant Loss of NK and Antibody-Dependent Cellular Cytotoxicity Activities
2096  H-2 Antigen Expression and Sensitivity of BL6 Melanoma Cells to Natural Killer Cell Cytotoxicity
2103  Use of Colony Assays and Anti-T Cell Immunotoxins to Elucidate the Immunobiologic Features of Leukemic Progenitor Cells in T-Lineage Acute Lymphoblastic Leukemia

Announcements
Author Index