Contents

CELLULAR IMMUNOLOGY

J. Alcalay and M. L. Kripke  1717 Antigen-Presenting Activity of Draining Lymph Node Cells from Mice Painted with a Contact Allergen during Ultraviolet Carcinogenesis

T. B. Barrett, G. Shu, and E. A. Clark  1722 CD40 Signaling Activates CD11a/CD18 (LFA-1)-Mediated Adhesion in B Cells

T. C. Chiles, J. Liu, and T. L. Rothstein  1730 Cross-Linking of Surface Ig Receptors on Murine B Lymphocytes Stimulates the Expression of Nuclear Tetradecanoyl Phorbol Acetate-Response Element-Binding Proteins

B. Endler-Jobst, B. Schraven, B. Hutmacher, and S. C. Meuer  1736 Human T Cell Responses to IL-1 and IL-6 Are Dependent on Signals Mediated through CD2

C. L. Fisher, J. Ghysdael, and J. C. Cambier  1743 Ligation of Membrane Ig Leads to Calcium-Mediated Phosphorylation of the Proto-Oncogene Product, Ets-1

T. F. Gajewski, M. Pinnas, T. Wong, and F. W. Fitch  1750 Murine Th1 and Th2 Clones Proliferate Optimally in Response to Distinct Antigen-Presenting Cell Populations

L. K. Gilliland, H. S. Teh, F. M. Uckun, N. A. Norris, S.-J. Teh, G. L. Schieven, and J. A. Ledbetter  1759 CD4 and CD8 Are Positive Regulators of T Cell Receptor Signal Transduction in Early T Cell Differentiation

C. Hivroz, E. Fischer, M. D. Kazatchkine, and C. Grillo-Courvalin  1766 Differential Effects of the Stimulation of Complement Receptors CR1 (CD35) and CR2 (CD21) on Cell Proliferation and Intracellular Ca²⁺ Mobilization of Chronic Lymphocytic Leukemia B Cells

P. Kuhlman, V. T. Moy, B. A. Lollo, and A. A. Brian  1773 The Accessory Function of Murine Intercellular Adhesion Molecule-1 in T Lymphocyte Activation: Contributions of Adhesion and Co-Activation

J. T. Kung, M. Castillo, P. Heard, K. Kerbacher, and C. A. Thomas III  1783 Subpopulations of CD8⁺ Cytotoxic T Cell Precursors Collaborate in the Absence of Conventional CD4⁺ Helper T Cells

P. K. A. Mongini, C. A. Blessinger, and J. P. Dalton  1791 Affinity Requirements for Induction of Sequential Phases of Human B Cell Activation by Membrane IgM-Cross-Linking Ligands

H. F. J. Savelkoul, B. W. P. Seymour, and R. L. Coffman  1801 IL-4 Can Correct Defective IgE Production in SJA/9 Mice

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY


Y. Kono, K. W. Beagley, K. Fujihashi, J. R. McGhee, T. Taga, T. Hirano, T. Kishimoto, and H. Kiyono  1812 Cytokine Regulation of Localized Inflammation: Induction of Activated B Cells and IL-6-Mediated Polyclonal IgG and IgA Synthesis in Inflamed Human Gingiva


C. W. Ward, J.-C. Virchow Jr., P. L. B. Bruijnzeel, and K. Blaser  1829 T Cell Subsets and Their Soluble Products Regulate Eosinophilia in Allergic and Nonallergic Asthma

K. Zhang, E. A. Clark, and A. Saxon  1836 CD40 Stimulation Provides an IFN-γ-Independent and IL-4-Dependent Differentiation Signal Directly to Human B Cells for IgE Production

Continued on page 4
### CYTOKINES • MEDIATORS • REGULATORY MOLECULES

<table>
<thead>
<tr>
<th>Authors</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Han, G. Huez, and B. Beutler</td>
<td>1943</td>
<td>Interactive Effects of the Tumor Necrosis Factor Promoter and 3'-Untranslated Regions</td>
</tr>
</tbody>
</table>

### IMMUNOCHEMISTRY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Guha and R. E. Cone</td>
<td>1858</td>
<td>IFN-γ Retards the Turnover of H-2Dd Antigens by Splenic Lymphocytes</td>
</tr>
<tr>
<td>J. H. Hochman, H. Jiang, L. Matys, M. Eddin, and B. Pernis</td>
<td>1862</td>
<td>Endocytosis and Dissociation of Class I MHC Molecules Labeled with Fluorescent β-2 Microglobulin</td>
</tr>
<tr>
<td>S. Ihara, A. Takahashi, H. Hatasue, K. Sumitomo, K. Doi, and M. Kawakami</td>
<td>1874</td>
<td>Major Component of Ra-Reactive Factor, a Complement-Activating Bactericidal Protein, in Mouse Serum</td>
</tr>
<tr>
<td>T. Ota, S. Oda, S. Chiba, H. Suzuki, and S. Eto</td>
<td>1880</td>
<td>A Waldenström's Macroglobulin with Anti-G3m(b̄) Antibody Activity</td>
</tr>
<tr>
<td>E. W. St. Clair, D. Kenan, J. A. Burch, Jr., J. D. Keene, and D. S. Pisetsky</td>
<td>1885</td>
<td>Anti-La Antibody Production by MRL-1pr/1pr Mice: Analysis of Fine Specificity</td>
</tr>
<tr>
<td>C. R. Wira, J. E. Bodwell, and R. H. Prabhala</td>
<td>1893</td>
<td>In Vivo Response of Secretory Component in the Rat Uterus to Antigen, IFN-γ, and Estradiol</td>
</tr>
<tr>
<td>H. C. Yohe, C. L. Cuny, L. J. Macala, M. Salto, W. J. McMurray, and J. L. Ryan</td>
<td>1900</td>
<td>The Presence of Sialidase-Sensitive Sialosylgangliotetraosyl Ceramide (Gm1β) in Stimulated Murine Macrophages: Deficiency of Gm1β In Escherichia coli-Activated Macrophages from the C3H/HeJ Mouse</td>
</tr>
</tbody>
</table>

### IMMUNOPHARMACOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.-M. Liang, C.-M. Liang, M. E. Hargrove, and C.-C. Ting</td>
<td>1909</td>
<td>Regulation by Glutathione of the Effect of Lymphokines on Differentiation of Primary Activated Lymphocytes: Influence of Glutathione on Cytotoxic Activity of CD3-ACK</td>
</tr>
<tr>
<td>B. Mazer, J. Domenico, H. Sawami, and E. W. Gelfand</td>
<td>1914</td>
<td>Platelet-Activating Factor: Increases an Increase in Intracellular Calcium and Expression of Regulatory Genes in Human B Lymphoblastoid Cells</td>
</tr>
<tr>
<td>M. J. Smyth</td>
<td>1921</td>
<td>Glutathione Modulates Activation-Dependent Proliferation of Human Peripheral Blood Lymphocyte Populations without Regulating Their Activated Function</td>
</tr>
<tr>
<td>M. Takema, K. Inaba, K. Uno, K.-I. Kakihara, K. Tawara, and S. Muramatsu</td>
<td>1928</td>
<td>Effect of L-Arginine on the Retention of Macrophage Tumoricidal Activity</td>
</tr>
</tbody>
</table>

### MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. L. Fidel, Jr. and D. L. Boros</td>
<td>1941</td>
<td>Regulation of Granulomatous Inflammation in Murine Schistosomiasis. V. Antigen-Induced T Cell-Derived Suppressor Factors Down-Regulate Proliferation and IL-2, but not IL-4, Production by CD4+ Effector T Cells</td>
</tr>
<tr>
<td>J. Haber, G. Paradis, and C. M. Grinnell</td>
<td>1949</td>
<td>Dominant Low Responsiveness in the IgG Response of Mice to the Complex Protein Antigen Type I Fimbriae from Actinomyces viscosus T14V</td>
</tr>
</tbody>
</table>

Continued on page 5
M. T. Kasaian, K. A. Leite-Morris, and C. A. Biron
F. Manca, J. Habeshaw, and A. Dalgleish
K. B. Renegar and P. A. Small, Jr.
J. R. Rodgers, P. R. Wyde, and R. R. Rich
I. W. Wolowczuk, C. Auriault, M. Bossus, D. Boulanger, H. Gras-Masse, C. Mazingue, R. J. Pierce, D. Grezel, G. D. Reid, A. Tartar, and A. Capron

1955 The Role of CD4+ Cells in Sustaining Lymphocyte Proliferation during Lymphocytic Choriomeningitis Virus Infection
1964 The Naive Repertoire of Human T Helper Cells Specific for gp120, the Envelope Glycoprotein of HIV
1972 Passive Transfer of Local Immunity to Influenza Virus Infection by IgA Antibody
1979 Mutational Analysis of Regulation of MHC and Anti-Viral Genes
1987 Antigenicicy and Immunogenicity of a Multiple Peptidic Construction of the Schistosoma mansoni Sm-28 GST Antigen in Rat, Mouse and Monkey. 1. Partial Protection of Fischer Rat after Active Immunization

MOLECULAR BIOLOGY • MOLECULAR GENETICS

L. A. Bangs, I. E. Sanz, and J. M. Teale
M. M. Brigido and B. D. Stollar
D. L. French, R. R. Pollock, H. L. Aguila, and M. D. Scharff
B. J. Kobrin, S. Buhl, M. J. Shulman, and M. D. Scharff
E. J. Rayhel, M. H. Dehoff, and V. M. Holers

1996 Comparison of D, Jh, and Junctional Diversity in the Fetal, Adult, and Aged B Cell Repertoires
2005 Two Induced Anti-Z-DNA Monoclonal Antibodies Use VH Gene Segments Related to Those of Anti-DNA Autoantibodies
2010 The Molecular and Biochemical Characterization of Mutant Monoclonal Antibodies with Increased Antigen Binding
2017 A V Region Mutation in a Phosphocholine-Binding Monoclonal Antibody Results in Loss of Antigen Binding
2021 Characterization of the Human Complement Receptor 2 (CR2, CD21) Promoter Reveals Sequences Shared with Regulatory Regions of Other Developmentally Restricted B Cell Proteins
2027 Latent a1 VH Germline Genes in an a2a2 Rabbit: Evidence for Gene Conversion at Both the Germline and Somatic Levels

TUMOR IMMUNOLOGY

L. Banks, F. Moreau, K. Vousden, D. Pim, and G. Matlashewski
R. M. Karpati, S. M. Banks, B. Malissen, S. A. Rosenberg, M. A. Sheard, J. S. Weber, and R. J. Hodes
A. Lichtenstein, J. F. Gera, J. Andrews, J. Berenson, and C. F. Ware
D. J. Peace, W. Chen, H. Nelson, and M. A. Cheever
T. Utsugi and I. J. Fidler

2037 Expression of the Human Papillomavirus E7 Oncogene during Cell Transformation Is Sufficient to Induce Susceptibility to Lysis by Activated Macrophages
2043 Phenotypic Characterization of Murine Tumor-Infiltrating T Lymphocytes
2052 Inhibitors of ADP-Ribose Polymerase Decrease the Resistance of HER2/neu-Expressing Cancer Cells to the Cytotoxic Effects of Tumor Necrosis Factor
2059 T Cell Recognition of Transforming Proteins Encoded by Mutated ras Proto-Oncogenes
2066 Prostaglandin E2 Does Not Inhibit Tumoricidal Activity of Mouse Macrophages against Adherent Tumor Cells

Letters to the Editor 2072
Erratum 2073
Author Index 1