Contents

COMMUNICATIONS

J. M. Depper, W. J. Leonard, M. Kronke, T. A. Waldmann, and W. C. Greene
A. Fontana, E. Weber, and J.-M. Dayer
E. J. Winchell, L. T. Ling, and R. J. M. Wilson

1691 Augmented T Cell Growth Factor Receptor Expression in HTLV-Infected Human Leukemic T Cells

1696 Synthesis of Interleukin 1/Endogenous Pyrogen in the Brain of Endotoxin-Treated Mice: A Step in Fever Induction?

1699 An Association between Susceptibility to Experimental Autoimmune Uveitis and Choroidal Mast Cell Numbers

1702 A Molecular Basis for Strain Specificity in S Antigens of Plasmodium falciparum

CELLULAR IMMUNOLOGY

G. Strassman and F. H. Bach
W. A. Sewell, J. J. Munoz, R. Scollay, and M. A. Vadas
H.-Y. Lei and C. Waltonbaugh
C. Waltonbaugh and H.-Y. Lei
K. Taniguchi, H. Gondo, and K. Nomoto
D. N. Shapiro, T. P. Bender, J. L. Claflin, and J. E. Niederhuber
A. K. Bhalia, E. P. Amento, and B. Serog
M. G. Masucci, S. Torsteindottir, W. Pear, A. Carstensen, and E. Klein
N. J. G. Pimlott and R. G. Miller
P. J. Fink, H.-G. Rammensee, and M. J. Bevan
S. R. S. Gottesman, R. L. Wolford, and G. J. Thorbecke

1705 OKT4+ Cytotoxic T Cells Can Lyse Targets Via Class I Molecules and Can Be Blocked by Monoclonal Antibody against T4 Molecules

1710 Cell Cycle Analysis of a Cell Proliferation-Associated Human Nuclear Antigen Defined by the Monoclonal Antibody Ki-67

1716 Studies on the Mechanism of the Enhancement of Delayed-Type Hypersensitivity by Pertussigen

1723 Regulation of Immune Responses by I-J Gene Products. IV. Distinct Suppressor Factors Derived from "Nonsuppressor" A Strain Mice

1730 Regulation of Immune Responses by I-J Gene Products. V. Heterogeneity of I-J Gene Products as Detected by Anti-I-J Monoclonal Antibodies

1735 Role of the Thymus in Control of Autoreactivity or Allotolerance in Syngeneic and Allogeneic Bone Marrow Chimeras Treated with Bacterial Adjuvants

1740 Anti-Idiotypic Regulation of an Insulin-Reactive T Cell Clone

1748 1.25-Dihydroxyvitamin D3 Inhibits Antigen-Induced T Cell Activation

1755 Phorbol Esters Inhibit the Functional Activation of Cytotoxic Precursors in Mixed Lymphocyte Cultures

1763 A Glycopeptide Extract Can Inhibit Cytotoxic T Lymphocyte-Target Cell Conjugation in an H-2-Restricted Manner

1769 Studies on the Mechanism of Suppression of Primary Cytotoxic Responses by Cloned Cytotoxic T Lymphocytes

1775 Cloned Cytolytic T Cells Can Suppress Primary Cytotoxic Responses Directed against Them

1782 Proliferative and Cytotoxic Immune Functions in Aging Mice. II. Decreased Generation of Specific Suppressor Cells in Alloreactive Cultures

Continued on page 4
Phorbol Esters Inhibit Murine B Cell Differentiation to Immunoglobulin Secretion but not Proliferation

T Lymphocyte-Dependent B Lymphocyte Proliferative Response to Antigen. II. Induction of Polyclonal B Lymphocyte Activation of Normal B Cells and of Lyb-5- B Cells from xid Mice Via Recognition of Self-IA Antigens

Selective Activation by Thymus-Dependent Antigens of Distinct B Cell Subpopulations Expressing a Major Cross-Reactive Idiotype

Membrane and Metabolic Requirements for Tolerance Induction of Neonatal B Cells

Cholera Toxin B Subunit as a Carrier Protein to Stimulate a Mucosal Immune Response

Selective Activation by Thymus-Dependent Antigens of Distinct B Cell Subpopulations Expressing a Major Cross-Reactive Idiotype

Membrane and Metabolic Requirements for Tolerance Induction of Neonatal B Cells

Cholera Toxin B Subunit as a Carrier Protein to Stimulate a Mucosal Immune Response

Selective Activation by Thymus-Dependent Antigens of Distinct B Cell Subpopulations Expressing a Major Cross-Reactive Idiotype

Membrane and Metabolic Requirements for Tolerance Induction of Neonatal B Cells

Cholera Toxin B Subunit as a Carrier Protein to Stimulate a Mucosal Immune Response

Selective Activation by Thymus-Dependent Antigens of Distinct B Cell Subpopulations Expressing a Major Cross-Reactive Idiotype

Membrane and Metabolic Requirements for Tolerance Induction of Neonatal B Cells

Cholera Toxin B Subunit as a Carrier Protein to Stimulate a Mucosal Immune Response

Selective Activation by Thymus-Dependent Antigens of Distinct B Cell Subpopulations Expressing a Major Cross-Reactive Idiotype

Membrane and Metabolic Requirements for Tolerance Induction of Neonatal B Cells

Cholera Toxin B Subunit as a Carrier Protein to Stimulate a Mucosal Immune Response
Continued from page 4

J. E. Merrill, C. Mohlstrom, C. Uittenbogaart, V. Kermani-Arab, G. W. Ellison, and L. W. Myers
S. W. Brostoff and D. W. Mason
S. W. Brostoff and D. W. Mason
N. S. Hayosh, L. I. Simon, and R. H. Swanborg
F. Takei
P. A. Smathers, T. J. Santoro, T. M. Chused, J. P. Reeves, and A. D. Steinberg
D. J. Anderson, P. Narayan, and W. C. DeWolf

1931 Response to and Production of Interleukin 2 by Peripheral Blood and Cerebrospinal Fluid Lymphocytes of Patients with Multiple Sclerosis
1938 Experimental Allergic Encephalomyelitis: Successful Treatment In Vivo with a Monoclonal Antibody that Recognizes T Helper Cells
1943 Autoimmune Effector Cells. VI. Transfer of Experimental Allergic Encephalomyelitis with Spleen Cells Activated in Mixed Lymphocyte Cultures
1946 A Permanent Rat T Cell Line that Mediates Experimental Allergic Neuritis in the Lewis Rat In Vivo
1951 Unique Surface Phenotype of T Cells in Lymphoproliferative Autoimmune MRL/Mp-lpr/lpr Mice
1955 Studies of Lymphoproliferation in MRL/lpr/lpr Mice
1962 Major Histocompatibility Antigens Are Not Detectable on Post-Meiotic Human Testicular Germ Cells

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

D. R. Kaplan, V. L. Braciale, and T. J. Braciale
B. Caplan and E. Rothenberg
C. Leclerc, A. Morin, E. Deriaud, and L. Chedid
T. L. Bowlin, A. N. Scott, and J. N. Ihle
P. Miossec, C.-L. Yu, and M. Ziff
M. Hirashima, K. Tashiro, K.-m. Sakata, T. Yoshimura, and H. Hayashi
K. Kato and P. W. Askenase
R. D. Irons, R. W. Pfeifer, T. M. Aune, and C. W. Pierce
Y. Ron, J. P. Dougherty, G. W. Duff, and R. K. Gershon

1966 Antigen-Dependent Regulation of Interleukin 2 Receptor Expression on Cloned Human Cytotoxic T Lymphocytes
1970 The Murine IL 2 Receptor. I. Monoclonal Antibodies that Define Distinct Functional Epitopes on Activated T Cells and React with Activated B Cells
1976 The Murine IL 2 Receptor. II. Monoclonal Anti-IL 2 Receptor Antibodies as Specific Inhibitors of T Cell Function In Vitro
1983 High-Level Secretion of Interleukin 2 by a Subset of Proliferating Thymic Lymphoblasts
1992 Comparison of Allogeneic and Self-Restricted Stimulation of Lymphokine Production by Dual-Reactive Cloned T Cells
1996 Inhibition of Human IL 2 Production by MDP and Derivatives
2001 Biologic Properties of Interleukin 3. II. Serologic Comparison of 20-SDH-Inducing Activity, Colony-Stimulating Activity and WEHI-3 Growth Factor Activity by Using an Antiserum against IL 3
2007 Lymphocyte Chemotactic Activity of Human Interleukin 1
2012 Difference in Requirement of Macrophages Products for Concanavalin A-Induced Production of Eosinophil Chemotactic Factor and Macrophage Chemotactic Factor from Guinea Pig Lymphocytes In Vitro
2018 Induction of Cytotoxic Lymphocyte Responses by Antigen-Specific Helper Factors
2025 Reconstitution of an Inactive Antigen-Specific T Cell Suppressor Factor by Incubation of the Factor with Prostaglandins
2032 Soluble Immune Response Suppressor (SIRS) Inhibits Microtubule Assembly In Vitro
2037 The Effect of Febrile Temperatures on Biologic Actions of Interferons: Abrogation of Suppression of Delayed-Type Hypersensitivity and Antibody Production
2043 P Cell-Stimulating Factor and Glucocorticoids Oppose the Action of Interferon-γ in Inducing la Antigens on T-Dependent Mast Cells (P Cells)
2051 Effects of Monoclonal Antibodies Directed against Murine T Lymphocyte Cell Surface Antigens on Lymphokine Production by Cloned T Lymphocytes Reactive with Class I MHC or Mls Alleles

Continued on page 6

Continued on page 6
IMMUNOCHEMISTRY

P. M. Snow, G. Keizer, J. E. Coligan, and C. Terhorst

R. Shimonkevitz, S. Colon, J. W. Kappler, P. Marrack, and H. M. Grey

F. Manca, J. A. Clarke, A. Miller, E. E. Sercarz, and N. Shastri

C. Horgan, J. Burge, L. Crawford, and R. P. Taylor

D. S. Pisetsky, K. F. Semper, and R. A. Eisenberg

M. Kuroki, M. Kuroki, Y. Koga, and Y. Matsuoka

A. Velardi, H. Kubagawa, and J. F. Kearney

S. Forsgren, G. Pobor, A. Coutinho, and M. Pierres

J. B. Splawski, C. S. Woodward, R. M. Denney, and R. M. Goldblum

C. S. Woodard, J. B. Splawski, R. M. Goldblum, and R. M. Denney

C. Glad and C. A. K. Borregaard

V. W. Hu and M. L. Shin

IMMUNOPHARMACOLOGY

S. T. Holgate, G. B. Burns, C. Robinson, and M. K. Church


A. Ferrante, C. M. Rzepczyk, and A. J. Saul

I. G. Colditz and H. Z. Movat

I. G. Colditz and H. Z. Movat

R. M. Crapper, W. R. Thomas, and J. W. Schrader

L. M. Zheutlin, S. J. Ackerman, G. J. Gleich, and L. L. Thomas

Anaphylactic- and Calcium-Dependent Generation of Prostaglandin D2 (PGD2), Thromboxane B2, and Other Cyclooxygenase Products of Arachidonic Acid by Dispersed Human Lung Cells and Relationship to Histamine Release

Macrophages Release Arachidonic Acid, Prostaglandin E2 and Thromboxane A2 in Response to Late Complement Components

Enhanced Release of Oxygen Metabolites by Monocyte-Derived Macrophages Exposed to Proteolytic Enzymes: Activity of Neutrophil Elastase and Cathepsin G

Polyamine Oxidase-Mediated Trypanosome Killing: The Role of Hydrogen Peroxide and Aldehydes

Desensitization of Acute Inflammatory Lesions to Chemotaxins and Endotoxin

Kinetics of Neutrophil Accumulation in Acute Inflammatory Lesions Induced by Chemotaxins and Chemoxicins

In Vivo Transfer of Persisting (P) Cells: Further Evidence for their Identity with T-Dependent Mast Cells

Stimulation of Basophil and Rat Mast Histamine Release by Eosinophil Granule-Derived Cationic Proteins

Continued on page 7
### MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. A. N. Wabuke-Bunoti, A. Taku, R. G. Webster, and D. P. Fan</td>
<td>2186</td>
</tr>
<tr>
<td>Stimulation of Anti-Influenza Cytolytic T Lymphocytes by a Synthetic Peptide of the Influenza Hemagglutinin Can Be Modulated by at Least Three Independent Helper Factors</td>
<td></td>
</tr>
<tr>
<td>M. A. N. Wabuke-Bunoti, A. Taku, D. P. Fan, S. Kent, and R. G. Webster</td>
<td>2194</td>
</tr>
<tr>
<td>Cytolytic T Lymphocyte and Antibody Responses to Synthetic Peptides of Influenza Virus Hemagglutinin</td>
<td></td>
</tr>
<tr>
<td>A Human Monoclonal Antibody to Cytomegalovirus (CMV)</td>
<td></td>
</tr>
<tr>
<td>G. A. Bishop, S. D. Marlin, S. A. Schwartz, and J. C. Glorioso</td>
<td>2206</td>
</tr>
<tr>
<td>Human Natural Killer Cell Recognition of Herpes Simplex Virus Type 1 Glycoproteins: Specificity Analysis with the Use of Monoclonal Antibodies and Antigenic Variants</td>
<td></td>
</tr>
<tr>
<td>R. M. Iorio and M. A. Bratt</td>
<td>2215</td>
</tr>
<tr>
<td>Monoclonal Antibodies as Functional Probes of the HN Glycoprotein of Newcastle Disease Virus: Antigenic Separation of the Hemagglutinating and Neuraminidase Sites</td>
<td></td>
</tr>
<tr>
<td>I. van de Rijn and M. George</td>
<td>2220</td>
</tr>
<tr>
<td>Immunochemical Study of Nutritionally Variant Streptococci</td>
<td></td>
</tr>
<tr>
<td>T. Une and R. R. Brubaker</td>
<td>2226</td>
</tr>
<tr>
<td>Roles of V Antigen in Promoting Virulence and Immunity in Yersinia</td>
<td></td>
</tr>
<tr>
<td>M. J. Stadecker and S. A. Ebner</td>
<td>2231</td>
</tr>
<tr>
<td>Characterization of Mononuclear Phagocytes in Schistosomal Egg Granulomas of Athymic Mice</td>
<td></td>
</tr>
<tr>
<td>R. G. Hamilton, R. Hussain, and E. A. Ottesen</td>
<td>2237</td>
</tr>
<tr>
<td>Immunoradiometric Assay for Detection of Filarial Antigens in Human Serum</td>
<td></td>
</tr>
<tr>
<td>B. Delvinquier, P. Goumand, M. Dubarry, G. Tronchin, and D. Camus</td>
<td>2243</td>
</tr>
<tr>
<td>Renal Deposits of Lipoprotein-Immunoglobulin Complexes in <em>Plasmodium chabaudi</em>-Infected Mice</td>
<td></td>
</tr>
<tr>
<td>H. W. Murray, B. Y. Rubin, S. Carriero, and A. M. Acousta</td>
<td>2250</td>
</tr>
<tr>
<td>Reversible Defect in Antigen-Induced Lymphokine and γ-Interferon Generation in Cutaneous Leishmaniasis</td>
<td></td>
</tr>
<tr>
<td>K. Elkins and E. S. Metcalf</td>
<td>2255</td>
</tr>
<tr>
<td>Monoclonal Antibodies Demonstrate Multiple Epitopes on the O Antigens of <em>Salmonella typhimurium</em> LPS</td>
<td></td>
</tr>
</tbody>
</table>

### MOLECULAR GENETICS • MOLECULAR BIOLOGY

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. L. Tykocinski, P. N. Marche, E. E. Max, and T. J. Kindt</td>
<td>2261</td>
</tr>
<tr>
<td>Rabbit Class I MHC Genes: cDNA Clones Define Full-Length Transcripts of an Expressed Gene and a Putative Pseudogene</td>
<td></td>
</tr>
</tbody>
</table>

### TUMOR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhancing Effects of Monocytes on Modulation of a Lymphocyte Membrane Antigen</td>
<td></td>
</tr>
</tbody>
</table>

Letters 2278
Announcements 2280
Author Index 2282