## Contents

### OPINION

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. F. Stenson and C. W. Parker</td>
<td>1</td>
<td>Prostaglandins, Macrophages, and Immunity</td>
</tr>
</tbody>
</table>

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. Deslauriers-Boisvert, G. Mercier, and L. Lafleur</td>
<td>47</td>
<td>Size Separation and Polyclonal Activation to Immunoglobulin Secretion of Early Precursors of B Lymphocytes</td>
</tr>
<tr>
<td>C. Shiozawa, M. B. Longenecker, and E. Diener</td>
<td>68</td>
<td>In Vitro Cooperation of Antigen-Specific T Cell-Derived Helper Factor, B Cells, and Adherent Cells or Their Secretory Product in a Primary IgM Response to Chicken MHC Antigens</td>
</tr>
<tr>
<td>K.-C. Lee and M. Wong</td>
<td>86</td>
<td>Functional Heterogeneity of Culture-Grown Bone Marrow-Derived Macrophages. I. Antigen Presenting Function</td>
</tr>
<tr>
<td>S. H. Gregory, D. H. Zimmerman, and M. Kern</td>
<td>102</td>
<td>The Lipid A Moiety of Lipopolysaccharide is Specifically Bound to B Cell Subpopulations of Responder and Nonresponder Animals</td>
</tr>
<tr>
<td>T. C. Chanh, A. A. Benedict, L. Q. Tam, H. Abplanalp, and M. E. Gershwin</td>
<td>108</td>
<td>Inherited 7S Immunoglobulin Deficiency in Chickens: Presence of Suppressor T Cells That Suppress Synthesis of 7S Immunoglobulin but Not IgM</td>
</tr>
<tr>
<td>B. A. Araneo and J. A. Kapp</td>
<td>118</td>
<td>Immunosuppressive Factor(s) from Lymphoid Cells of Nonresponder Mice Primed with L-Glutamic Acid-DL-Alanine-DL-Tyrosine (GAT). V. Inhibition of T Cell Proliferative Responses</td>
</tr>
<tr>
<td>R. H. DeKruyff, Y. T. Kim, G. W. Siskind, and M. E. Wekaler</td>
<td>142</td>
<td>Age Related Changes in the in Vitro Immune Response: Increased Suppressor Activity in Immature and Aged Mice</td>
</tr>
<tr>
<td>M. Suemura, J. Yodoi, M. Hirasuma, and K. Ishizaka</td>
<td>148</td>
<td>Regulatory Role of IgE-Binding Factors from Rat T Lymphocytes. I. Mechanism of Enhancement of IgE Response by IgE-Potententiating Factor</td>
</tr>
<tr>
<td>E. L. Morgan and W. O. Weigle</td>
<td>41</td>
<td>Aggregated Human γ-Globulin-Induced Proliferation and Polyclonal Activation of Murine B Lymphocytes</td>
</tr>
<tr>
<td>P. L. Romain, P. L. Cohen, F. Fish, M. Ziff, and E. S. Vitetta</td>
<td>246</td>
<td>The Specific B Cell Subset Lacking in the CBA/N Mouse Is Not Required for the Production of Autoantibody in (CBA/N × NZB)F1 Male Mice</td>
</tr>
<tr>
<td>K. Karjailainen, B. Bäng, and O. Makela</td>
<td>313</td>
<td>Fine Specificity and Idiotypes of Early Antibodies against (4-Hydroxy-3-Nitrophenyl)Acetyl (NP)</td>
</tr>
<tr>
<td>M. Letarte, H.-S. Teh, and G. Meghji</td>
<td>370</td>
<td>Increased Expression of Ia and Thy-1 Antigens on Mitogen-Activated Murine Spleen Lymphocytes</td>
</tr>
<tr>
<td>M. Letarte and G. Meghji</td>
<td>378</td>
<td>An Ia+ Subpopulation of Activated Spleen T Cells Is Generated by Concanavalin A Stimulation</td>
</tr>
</tbody>
</table>

### CLINICAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. R. Crabtree, A. Munck, and K. A. Smith</td>
<td>13</td>
<td>Glucocorticoids and Lymphocytes. II. Cell Cycle-Dependent Changes in Glucocorticoid Receptor Content</td>
</tr>
<tr>
<td>J. Shoham, I. Eshel, M. Aboud, and S. Salzberg</td>
<td>54</td>
<td>Thymin Hormonal Activity on Human Peripheral Blood Lymphocytes in Vitro. II. Enhancement of the Production of Immune Interferon by Activated Cells</td>
</tr>
<tr>
<td>P. E. Lipsky</td>
<td>155</td>
<td>Staphylococcal Protein A, a T Cell-Regulated Polyclonal Activator of Human B Cells</td>
</tr>
<tr>
<td>C. Staszak, J. S. Goodwin, G. M. Troup, D. R. Pathak, and R. C. Williams, Jr.</td>
<td>181</td>
<td>Decreased Sensitivity to Prostaglandin and Histamine in Lymphocytes from Normal HLA-B12 Individuals: A Possible Role in Autoimmunity</td>
</tr>
<tr>
<td>L. F. Thompson, G. R. Boss, H. L. Spiegelberg, A. Bianchino, and J. E. Seegmiller</td>
<td>190</td>
<td>Ecto-5'-Nucleotidase Activity in Lymphoblastoid Cell Lines Derived from Heterozygotes for Congenital X-Linked Agammaglobulinemia</td>
</tr>
<tr>
<td>M. Steinitz and G. Klein</td>
<td>194</td>
<td>ESV-Transformation of Surface IgA-Positive Human Lymphocytes</td>
</tr>
</tbody>
</table>

*Continued on page 4*
Continued from page 3

J.-P. Bouvet, P. Liacopoulos, J. Piliot, R. Banda, E. Tung, and A.-C. Wang 213 Three M-Components IgA λ + IgG κλ + TgG κλ in One Patient (DA): Lack of Shared Idiotypic Determinants between IgA and IgG, and the Presence of an Unusual κλ Chain of 30,000 M.W.
S. A. Rosenberg and P. E. Lipsky 232 The Role of Monocyte Factors in the Differentiation of Immunoglobulin Secreting Cells from Human Peripheral Blood B Cells
L. A. Fernandez and J. M. Mac-Sween 267 Generation of Suppressor Cells by Concanavalin A: A New Perspective
J. E. de Vries, J. Mendelsohn, and W. S. Bont 396 The Role of Target Cells, Monocytes, and Fc Receptor-Bearing Lymphocytes in Human Spontaneous Cell-Mediated Cytotoxicity and Antibody-Dependent Cellular Cytotoxicity
G. R. Crabtree 448 Fc Receptors of a Human Promyelocytic Leukemic Cell Line: Evidence for Two Types of Receptors Defined by Binding of the Staphylococcal Protein A-IgG Complex

IMMUNOCHEMISTRY

M. E. Frankel and P. A. Liberti 18 Characterization of a Calcium Dependent Immune Response to Human Serum Albumin
D. Yuan, J. W. Uhr, and E. S. Vi- 40 A Peptide Difference between the μ-Chains from Cell-Associated and Secreted IgM tetta J. K. Czop and K. F. Austen 124 Functional Discrimination by Human Monocytes between Their C3b Receptors and Their Recognition Units for Particulate Activators of the Alternative Complement Pathway
J. M. Norton and A. Munck 259 In Vitro Actions of Glucocorticoids on Murine Macrophages: Effects on Glucose
L. Rivat-Peran, F. W. Tischendorf, The Variable Region of Human Immunoglobulins. I. Serologic and Structural Correlations of Antigenic Markers Common to VIλ and VIIV Proteins (Isotypic Cross-relationships)
J. C. Gorman, R. Jackson, J. R. DeSantola, D. Shreffler, and J. P. Atkinson 390 The First Component of Complement. I. Purification and Properties of Native C1
R. G. Medicus and R. M. Chapuis 406 The Murine B Cell Response to TNP-Polyacrylamide Beads: The Relationship between the Epitope Density of the Antigen and the Requirements for T Cell Help and Surface IgD
S. G. Emerson, D. B. Murphy, and E. Pure and E. S. Vitetta 420 The Murine B Cell Response to TNP-Polyacrylamide Beads: The Relationship between the Epitope Density of the Antigen and the Requirements for T Cell Help and Surface IgD

IMMUNOGENETICS AND TRANSPLANTATION

K. Blaser, T. Nakagawa, and A. L. de Weck 24 Suppression of the Benzylpenicilloyl- (BPO) Specific IgE Formation with Isologous Anti-idiotype Antibodies in BALB/c Mice
C. Brezin and P.-A. Cazenave 50 Allotypy of Rabbit Immunoglobulins: A Fifth Allele at the a Locus
A. Gilman-Sachs, S. Dray, and W. J. Horng 96 A Common Idiotypic Specificity of Rabbit Antibodies to the a2 Allotype of the Immunoglobulin Heavy Chain Variable Region
J. M. D. Plate 288 Genetic Mapping of an H-2-Associated Antigen Expressed on Regulatory T Cells
L. A. Lampson and R. Levy 293 Two Populations of Ia-Like Molecules on a Human B Cell Line
M. Okada and C. S. Henney 300 The Differentiation of Cytotoxic T Cells in Vitro. II. Amplifying Factor(s) Produced in Primary Mixed Lymphocyte Cultures against K/D Stimuli Require the Presence of Lyt 2+ Cells but Not Lyt 1+ Cells
E. Young and E. G. Engleman 352 in Vitro Responses of Human Lymphocytes to Synthetic Polypeptide Antigens

Continued on page 5
IMMUNOPATHOLOGY

J. Radl, E. de Glopper, P. van den Berg, and M. J. van Zwieten
M. K. Bach, J. R. Brashler, S. Hammarskjoy, and B. Samuelsson
D. E. Tracey and N. F. Adkinson, Jr.
S. F. Falkenhein, H. MacDonald, M. L. Huber, D. Koch, and C. W. Parker
G. Lavie, D. Zucker-Franklin, and E. C. Franklin
A. M. Welch, J. H. Hols, and R. H. Swanborg
S. Tannenbaum, H. Oertel, W. Henderson, and M. Kaliner
S. Kitagawa, F. Takaku, and S. Sakamoto
L. Naglekerken, R. C. Aalberse, H. K. van Walbeek, and T. A. Out

TUMOR IMMUNOLOGY

P. A. Paciucci, S. Macphail, F. H. Bach, and J. M. Zarling
V. S. Rao, J. A. Bennett, F. W. Shen, R. T. Gershon, and M. S. Mitchell
I. Yon, T. A. Wood, Jr., P. J. Spiess, and S. A. Rosenberg
O. Alaba and L. W. Law
L. K. Roberts and R. A. Daynes
S. Haskill, F. Ritter, and S. Becker

VIRAL AND MICROBIAL IMMUNOLOGY

R. S. Fujinami and M. B. A. Oldstone
K. W. Hunter, F. D. Finkelman, G. T. Strickland, P. C. Sayles, and L. Scher
H. F. McFarland, C. A. Pedone, E. S. Mingioli, and D. E. McFarlin

Idiopathic Paraproteinemia. III. Increased Frequency of Paraproteinemia in Thyromectomized Aging C57BL/KaWRI and CBA/BaARj Mice
Identification of Leukotriene C-1 as a Major Component of Slow-Reacting Substance from Rat Mononuclear Cells
Prostaglandin Synthesis Inhibitors Potentiate the BCG-Induced Augmentation of Natural Killer Cell Activity
Effect of the 5-Hydroperoxide of Eicosatetraenoic Acid and Inhibitors of the Lipoxygenase Pathway on the Formation of Slow Reacting Substance by Rat Basophilic Leukemia Cells; Direct Evidence That Slow Reacting Substance Is a Product of the Lipoxygenase Pathway
The Biologic Activity of Mast Cell Granules. I. Elicitation of Inflammatory Responses in Rat Skin
A Comparison of the Superoxide-Releasing Response in Human Polymorphonuclear Leukocytes and Monocytes
Preparation of Antisera Directed against the Idiotype(s) of Immunoglobulin G from the Cerebrospinal Fluid of Patients with Multiple Sclerosis
Characterization of a Human Macrophage-Like Cell Line Stimulated in Vitro: A Model of Macrophage Functions
Requirements for T Cells in Alloantigen-Induced Generation of Non-T Cell-Mediated Cytotoxicity against Syngeneic Mouse Sarcoma Cells
Antigen-Antibody Complexes Generate Lyt 1 Inducers of Suppressor Cells
In Vitro Growth of Murine T Cells. V. The Isolation and Growth of Lymphoid Cells Infiltrating Syngeneic Solid Tumors
Staphylococcus aureus Cowan 1-Induced Immunoglobulin Production in Human Cord Blood Lymphocytes
Specific Induction of Syngeneic Cytotoxic T Lymphocytes by Solubilized Tumor Antigen: Fractionation of the Specific R-MuLV-Induced Leukemia Antigen
Modification of the Immunogenic Properties of Chemically Induced Tumors Arising in Hosts Treated Concomitantly with Ultraviolet Light
Effect of C. parvum on Intratumor Immunity to the T1699 Mammary Adenocarcinoma
Alterations in Expression of Measles Virus Polypeptides by Antibody: Molecular Events in Antibody-Induced Antigenic Modulation
Murine Malaria: Analysis of Erythrocyte Surface-Bound Immunoglobulin by Flow Microfluorimetry
The Response of Human Lymphocyte Subpopulations to Measles, Mumps, and Vaccinia Viral Antigens

Continued on page 6
Continued from page 5

M. I. Greene and H. L. Weiner 283 Delayed Hypersensitivity in Mice Infected with Reovirus. II. Induction of Tolerance and Suppressor T Cells to Viral Specific Gene Products
J. J. Ellner, G. R. Olds, R. Kamel, G. S. Osman, A. El Kholy, and A. A. F. Mahmoud 308 Suppressor Splenic T Lymphocytes in Human Hepatosplenic Schistosomiasis mansoni
M. Rizzetto, J. W.-K. Shih, and J. L. Gerin 318 The Hepatitis B Virus-Associated δ Antigen: Isolation from Liver, Development of Solid-Phase Radioimmunoassays for δ Antigen and Anti-δ and Partial Characterization of δ Antigen
R. P. Ciavarra, C. Y. Kang, and J. Forman 336 Vesicular Stomatitis Antigens Recognized by Cytotoxic Cells: Analysis with Detrimental Interfering Particles and Reconstituted Membrane Vesicles
A. H. Hale, M. J. Ruebush, and D. T. Harris 428 Elicitation of Anti-Viral Cytotoxic T Lymphocytes with Purified Viral and H-2 Antigens
F. A. Fitzpatrick and D. A. Stringfellow 431 Virus and Interferon Effects on Cellular Prostaglandin Biosynthesis

COMMUNICATION

J. R. Klein, M. I. Collector, P. H. Hardy, Jr., and A. A. Monjan 459 In Vitro Antigen-Specific Response of Spleen Cells from Treponema pallidum-Infected Mice
A. M. Dvorak 460 Ultrastructural Evidence for Release of Major Basic Protein-Containing Crystalline Cores of Eosinophil Granules in vivo. Cytotoxic Potential in Crohn's Disease Chemotactically Responsive and Nonresponsive Forms of a Continuous Human Monocyte Cell Line
D. G. Fischer, M. C. Pike, H. S. Koren, and R. Snyderman 463

LETTERS TO THE EDITOR

D. Fumarola 466 Ascorbic Acid and Mitogenic Influences in Lymphocytes
N. J. Roberts, Jr. 466 Reply to N. J. Roberts, Jr.
J. M. Yoder, P. K. Johnson, and E. C. Adams 466 Apparent Cross-Species Serum Protein Immunoreactivity
V. Nussenzweig 467 Reply to J. M. Yoder, P. K. Johnson, and E. C. Adams
Announcements 468
Author Index 469