# CONTENTS

## CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. N. Shek</td>
<td>83</td>
<td>Enhancement of the DNA Synthetic Response of Antigen-Primed Lymph Node Cells by Splenic Promoter Cells: Characterization of the Splenic Promoter Cells.</td>
</tr>
<tr>
<td>S. Sell, H. W. Sheppard, Jr., and M. Poler</td>
<td>98</td>
<td>Effects of α-Fetoprotein on Murine Immune Responses. II. Studies on Rats.</td>
</tr>
<tr>
<td>R. I. Mishell, A. Lucas, and B. B. Mishell</td>
<td>118</td>
<td>The Role of Activated Accessory Cells in Preventing Immunosuppression by Hydrocortisone.</td>
</tr>
<tr>
<td>M. Suemura, T. Kishimoto, Y. Hirai, and Y. Yamamura</td>
<td>149</td>
<td>Regulation of Antibody Response in Different Immunoglobulin Classes. III. In Vitro Demonstration of &quot;IgE Class-Specific&quot; Suppressor Functions of DNP-Mycobacterium-Primed T Cells and the Soluble Factor Releases from These Cells.</td>
</tr>
<tr>
<td>P. Erb, P. Vogt, B. Meier, and M. Feldmann</td>
<td>206</td>
<td>The Role of Macrophages in the Generation of T Helper Cells. V. Evidence for Differential Activation of Short-Lived T1 and Long-Lived T2 Lymphocytes by the Macrophage Factors GRF and NMF.</td>
</tr>
<tr>
<td>J. L. Reinertsen and A. D. Steinberg</td>
<td>217</td>
<td>In Vivo Immune Response Suppression by the Supernatant from Concanavalin A-Activated Spleen Cells.</td>
</tr>
<tr>
<td>R. E. Rocklin and A. S. Rosenthal</td>
<td>249</td>
<td>Evidence that Human Leukocyte Inhibitory Factor (LIF) is an Esterase.</td>
</tr>
<tr>
<td>D. C. Benjamin</td>
<td>311</td>
<td>Neonatally Induced Tolerance to HGG: Duration in B Cells and Absence of Specific Suppressor Cells.</td>
</tr>
<tr>
<td>J. W. Moorhead</td>
<td>315</td>
<td>Soluble Factors in Tolerance and Contact Sensitivity to 2,4-Dinitrofluorobenzene in Mice. I. Suppression of Contact Sensitivity by Soluble Suppressor Factor Released in Vitro by Lymph Node Cell Populations Containing Specific Suppressor Cells.</td>
</tr>
<tr>
<td>K. Tanphaichitr and B. H. Hahn</td>
<td>330</td>
<td>Studies of Tolerance to DNA in NZB/NZW F1, Mice.</td>
</tr>
</tbody>
</table>

## CLINICAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>U. Galili, E. Klein, and M. Schlesinger</td>
<td>104</td>
<td>Human T Lymphocyte Receptors for Sheep Red Blood Cells and Specific Antigens: Are They Identical Sites on the Cell Membrane?</td>
</tr>
</tbody>
</table>
P. T. Fan, D. T. Y. Yu, C. M. Pearson, and R. Bluestone

A. H. Laughter and J. J. Twomey

S. S. Ogra, D. Weintraub, and P. L. Ogra

D. A. Carson, S. Lawrance, M. A. Catalano, J. H. Vaughan, and G. Abraham

K. A. Ault and E. R. Unanue

J. E. Volanakis, R. E. Schroenloher, and R. M. Stroud


173 Suppression of Lymphoproliferation by High Concentrations of Normal Human Mononuclear Leukocytes.

245 Immunologic Aspects of Human Colostrum and Milk. III. Fate and Absorption of Cellular and Soluble Components in the Gastrointestinal Tract of the Newborn.

295 Radioimmunoassay of IgG and IgM Rheumatoid Factors Reacting with Human IgG.

327 Failure of B Lymphocytes in Human Blood to Regenerate Surface Immunoglobulin after Its Removal by Antibody.

337 Human Factor D of the Alternative Complement Pathway: Purification and Characterization.

IMMUNOCHEMISTRY


P. H. Morgan and I. G. Nair

T. Sasaki, Y. Ono, and N. Ishida

K. Inoue, T. Kinoshita, M. Okada, and Y. Akiyama

T. Kinoshita, K. Inoue, M. Okada, and Y. Akiyama

C. Isersky, G. R. Mendoza, and H. Metzger

N. E. Goeken and J. S. Thompson

R. E. Scott and A. S. Rosenthal

R. J. Mandle, Jr., J. A. McConnell-Mapes, and U. R. Nilsson

D. R. Claus, J. Siegel, K. Petras, A. P. Osmand, and H. Gewurz

M. J. Brunda, P. Minden, T. R. Sharpton, J. K. McClatchy, and R. S. Farr

J. E. Hall, Jr. and C. A. Alper

M. N. Margolies, L. E. Cannon, T. J. Kindt, and B. Fraser

M. H. Nahm, L. A. Herzenberg, K. Little, and J. R. Little

H. B. Dickler, M. T. Kubicek, R. D. Arbelt, and S. O. Sharrow

1 On the Mechanism of Cell Membrane Damage by Complement: Evidence on Insertion of Polypeptide Chains from C8 and C9 into the Lipid Bilayer of Erythrocytes.

19 Hydrolysis of a Synthetic Amide Substrate by Human C1 Esterase (C18).


65 Release of Phospholipids from Complement-Mediated Lesions on the Surface Structure of Escherichia coli.

75 Release of Phospholipids from Liposomal Model Membrane Damaged by Antibody and Complement.

123 The Binding of Antibodies to the Solubilized and Membrane-Integrated Mouse and Rat Receptor for IgE.

139 Conditions Affecting the Immunosuppressive Properties of Human α-Fetoprotein.

143 Isolation of Receptor-Bearing Plasma Membrane Vesicles from Guinea Pig Macrophages.

180 Inhibition of Complement by Mouse Serum: Selective Inactivation of the Fourth Component of Human Complement.

187 Interactions of C-Reactive Protein with the First Component of Human Complement.

193 Precipitation of Radiolabeled Antigen-Antibody Complexes with Protein A-Containing Staphylococcus aureus.

253 Genetic Polymorphism of the Sixth Component of Complement (C6) in the Rhesus Monkey.

287 The Structural Basis of Rabbit V_{H} Allotypes: Serologic Studies on α1 H Chains with Defined Amino Acid Sequence.

301 A New Method of Applying the Sips Equation.

348 Studies on the Nature of the Relationship between Ia Antigens and Fc Receptors on Murine B Lymphocytes.

IMMUNOGENETICS AND TRANSPLANTATION

P. J. Buckley and H. J. Wedner

L. Wofsy, H. O. McDevitt, and C. Henry


D. W. Thomas, U. Yamashita, and E. M. Shevach

S. A. Ben-Sasson and P. A. Henkart

9 Variation in DNA and RNA Synthetic Responses during Activation of Lymphocytes from Inbred Strains of Mice.

61 No Direct Association between Ia Antigens and Fc Receptors on the B Cell Membrane.

31 Regulation of Cytotoxic Lymphocyte Responses in Vitro by Alloantigen-Activated Spleen Cells.

223 Nature of the Antigenic Complex Recognized by T Lymphocytes. IV. Inhibition of Antigen-Specific T Cell Proliferation by Antibodies to Stimulator Macrophage Ia Antigens.

227 Enhancement of Weak Mixed Lymphocyte-Type Reactions by Hydrophilic Polymers.

Continued on page 12
IMMUNOPATHOLOGY


L. M. Glode, A. Jacques, S. E. Mergenhagen, and D. L. Rosenstreich

L. C. Altman, C. T. Furukawa, and S. J. Klebanoff

J. T. O'Flaherty, D. L. Kreutzer, and P. A. Ward

E. M. Allen, V. L. Moore, and J. O. Stevens

S. Sawada, R. J. Pillarisetty, J. P. Michalski, D. W. Palmer, and N. Talal

38 Isolation of the Cytoplasmic Granules of Guinea Pig Basophilic Leukocytes: Identification of Esterase and Protease Activities.

162 Resistance of Macrophages from C3H/HeJ Mice to the in Vitro Cytotoxic Effects of Endotoxin.

199 Depressed Mononuclear Leukocyte Chemotaxis in Thermally Injured Patients.

232 Neutrophil Aggregation and Swelling Induced by Chemotactic Agents.

343 Strain Variation in BCG-Induced Chronic Pulmonary Inflammation in Mice. I. Basic Model and Possible Genetic Control by Non-H-2 Genes.

355 Lymphocytes Binding Polyriboadenylic Acid and Synthesizing Antibodies to Nucleic Acids in Autoimmune and Normal Mice.

TUMOR IMMUNOLOGY

W. F. Piessens

C. M. Renk and E. M. Hoffmann

J. P. Leung, E. F. Plow, Y. Edgington

R. A. Rudders and J. P. Howard

J. L. McCoy, M. Padarathsingh, J. H. Dean, O. Henriksen, T. Natoli, and L. W. Law

R. B. Herberman, S. Bartram, J. S. Haslillt, M. Nunn, H. T. Hold, and W. H. West

167 Increased Binding and Killing of Neuraminidase-Galactose Oxidase-Treated Tumor Cells by Normal Macrophages.

263 Identification of RNA as a Complement Inhibitory Component in an Extract of Ehrlich Ascites Tumor Cells.

271 Delineation of Three Classes of CEA Antigenic Determinants: Identification of Membrane-Associated CEA as an Independent Species of CEA.

283 Pathways of Human B Lymphocyte Differentiation: A Clonal Transition between IgM and IgG Synthesis in Leukemic B Lymphocytes.

306 Migration inhibition by an Agarose Microdroplet Assay: Monitoring of Tumor-Associated Antigens on a Simian Virus 40-Induced Sarcoma.

322 Fc Receptors on Mouse Effector Cells Mediating Natural Cytotoxicity against Tumor Cells.

VIRAL AND MICROBIAL IMMUNOLOGY

B. B. Knowles, S. R. Ford, and D. P. Aden

H. J. Lustig, V. Nussenzweig, and R. S. Nussenzweig

S. G. Devare, S. Chander, B. S. Samagh, and J. R. Stephenson

79 Reactivity to SV40 T Antigen in Athymic (Nude), Anti-Thymocyte Serum-Treated, and Normal Mice.

210 Erythrocyte Membrane-Associated Immunoglobulins during Malaria Infection of Mice.

277 Evaluation of Radioimmunoprecipitation for the Detection of Bovine Leukemia Virus Infection in Domestic Cattle.

COMMUNICATION

H. C. Morse III, J. H. Goode, Jr., and S. Rudikoff

361 Murine Plasma Cells Secreting More than One Class of Immunoglobulin Heavy Chain. IV. Sequence Differences between κ-Chains of SAMM 368 IgG2b and IgA.

Announcements 364

Author Index 365