Contents

CELLULAR IMMUNOLOGY

D. A. Carson, J. Kaye, and D. B. Wasson 8 Differences in Deoxyadenosine Metabolism in Human and Mouse Lymphocytes
J. M. Fidler, E. L. Morgan, and W. O. Weigle 13 B Lymphocyte Differentiation in the CBA/N Mouse: A Delay in Maturation Rather Than a Total Arrest
J. L. Maryanski, H. R. MacDonald, and J.-C. Cerottini 42 Limiting Dilution Analysis of Alloantigen- Reactive T Lymphocytes. IV. High Frequency of Cytolytic T Lymphocyte Precursor Cells in MLC Blasts Separated by Velocity Sedimentation
J. P. McKearn and J. Quintáns 77 Delineation of Tolerance-Sensitive and Tolerance-Insensitive B Cells in Normal and Immune Defective Mice
S. H. C. Ip, J. Abraham, and R. A. Cooper 87 Enhancement of Blastogenesis in Cholesterol-Enriched Lymphocytes
A. Altman, J. M. Cardenas, T. E. Bechtold, and D. H. Katz 114 The Biologic Effects of Allogeneic Effect Factor on T Lymphocytes. II. The Specificity of AEF-Induced Cytotoxic T Lymphocytes
R. J. Hodes, K. S. Hatchcock, and A. Singer 134 Cellular and Genetic Control of Antibody Responses. VII. Absence of Detectable Suppression Maintaining the H-2 Restricted Recognition of F, → Parent Helper T Cells
C. G. Romball, R. J. Ulevitch, and W. O. Weigle 151 Role of C3 in the Regulation of a Splenic PFC Response in Rabbits
W. Knapp and B. Posch 168 Concanavalin A-Induced Suppressor Cell Activity: Opposing Effects of Hydrocortisone
B. L. Baskin and A. S. Rosenthal 184 Determinant Specific Suppression of Antigen-Induced T Cell Proliferation in the Guinea Pig. I. Quantitation of Suppressed Antigen-Specific T Cell Responses As a Consequence of Prior Exposure to Antigen in Incomplete Freund's Adjuvant
B. L. Baskin, J. T. Blake, and A. S. Rosenthal 189 Determinant Specific Suppression of Antigen-Induced T Cell Proliferation in the Guinea Pig. II. Determinant Specific Suppression of in Vitro T Cell Responsiveness Parallels a Selective Suppression of Anti-Hapten but Not Anti-carrier Antibody Responses
T. Kalland 194 Alterations of Antibody Response in Female Mice after Neonatal Exposure to Diethylstilbestrol
T. V. Tittle, and M. B. Rittenberg 199 IgG Memory Cell Subpopulations: Differences in Susceptibility to Stimulation by TI-1 and TI-2 Antigens
R. J. Sanderson, K. Rulon, E. G. Groeneboer, and D. W. Talmage 207 The Response of Murine Splenic Lymphocytes to Concanavalin A and to Costimulator
A. R. Brown, C. L. DeWitt, M. J. Bosma, and A. Nisonoff 250 Dominance of an Immune Response by Secondary Cells: Quantitation by Allotype Analysis
E. C. Lattime, H. E. Gershon, and O. Stutman 274 Allogeneic Radiation Chimeras Respond to TNP-Modified Donor and Host Targets
D. O. Adams / 266 Effector Mechanisms of Cytolytically Activated Macrophages. I. Secretion of Neutral Proteases and Effect of Protease Inhibitors
D. O. Adams, K.-J. Kao, R. Farb, and S. V. Pizzo / 293 Effector Mechanisms of Cytolytically Activated Macrophages. II. Secretion of a Cytolytic Factor by Activated Macrophages and Its Relationship to Secreted Neutral Proteases
I. Lowy, C. Leclerc, E. Bourgeois, and L. Chedid 320 Inhibition of Mitogen-Induced Polyclonal Activation by a Synthetic Adjuvant, Muramyl Dipeptide (MDP)
M.-K. Ho, A. S. Kong, and S. I. Morse 362 The in Vitro Effects of Bordetella pertussis Lymphocytosis Promoting Factor on Murine Lymphocytes. V. Modulation of T Cell Proliferation by Helper and Suppressor Lymphocytes
D. Gemsa, W. Kramer, M. Brenner, G. Till, and K. Resch

H. R. Petty, B. R. Ware, H. G. Remold, and R. E. Rocklin

J. E. Bubbers, J. H. Elder, and F. J. Dixon

P. J. Jensen and H. S. Koren

S. L. Swain and R. W. Dutton

R. P. Cleveland and H. N. Claman

376 Induction of Prostaglandin E Release from Macrophages by Colchicine

381 The Effects of Stimulated Lymphocyte Supernatants on the Electrophoretic Mobility Distribution of Peritoneal Macrophages

388 Stimulation of Murine Lymphocytes by Rauscher Leukemia Virus in Vitro

395 Heterogeneity within the Population of NK and K Cells

437 Production of Con A-Induced Helper T Cell Replacing Factor Requires a T Cell and an La-Positive Non-T Cell

474 T Cell Signals: Tolerance to DNFB is Converted to Sensitization by a Separate Nonspecific Second Signal

---

J. L. Roberts and E. J. Lewis


D. K. Fujii and T. S. Edgington


S. R. Findlay, L. M. Lichtenstein, and J. A. Grant


W. J. Yount, C. R. Fuller, and J. G. Simmons

127 Immunochemical Demonstration of Cryoprecipitable Anti-native DNA Antibody and DNA in the Serum of Patients with Glomerulonephritis

140 The Protein-A Plaque Assay: A New System for the Detection of Cells Secreting a Given Idiotype

156 Direct Suppression of Lymphocyte Induction by the Immunoregulatory Human Serum Low Density Lipoprotein, LDL-In

227 Stimulating Cell Types in the Autologous Mixed Leukocyte Reaction in Man

238 Generation of Slow Reacting Substance by Human Leukocytes. II. Comparison of Stimulation by Antigen, Anti-IgE, Calcium Ionophore, and C5-Peptide

243 Human Granulocyte-Specific Nuclear Antigen(s). II. Detection of Antigens in Human Proliferative Syndromes

431 Distribution of IgG Subclasses in Human B Lymphocytes: Evidence for Dual Expression of Subclasses in Surface and Cytoplasmic IgG in Minor B Lymphocyte Subpopulations

---

R. L. Riley, D. J. Addis, and R. P. Taylor

M. Loos, A.-B. Laurell, A. G. Sjöholm, U. Martensson, and A. I. Berkel

P. J. Baker and S. G. Ososky

I. Lowy, J. Theze, and L. Chedid


B. N. Manjula and V. A. Fischetti

C. R. Kiefer, H. M. Patton, Jr., B. S. McGuire, Jr., and F. A. Garver

D. E. Isenman, E. R. Podack, and N. R. Cooper

1 Stability of DNA/Anti-DNA Complexes. II. Salt Lability and Avidity

57 Immunochemical and Functional Analyses of a Complete C1q Deficiency in Man: Evidence That C1r and C1s Are in the Native Form, and That They Reassociate with Purified C1q to Form Macromolecular C1

81 Activation of Human Complement by Heat-Killed, Human Kidney Cells Grown in Cell Culture

100 Stimulation of the in Vivo Dinitrophenyl Antibody Response to the DNP Conjugate of L-Glutamic Acidβ-L-Alanineα-L-Tyrosineα (GAT) Polymer by a Synthetic Adjuvant, Muramyl Dipeptide (MDP): Target Cells for Adjuvant Activity and Isotypic Pattern of MDP-Stimulated Response

173 A New Lymphocyte Surface Protein Present in Normal Urine. I. Isolation and Physicochemical Properties

178 A New Lymphocyte Surface Protein Present in Normal Urine. II. Cellular Distribution and Biologic Properties

261 Studies on Group A Streptococcal M-Proteins: Purification of Type 5 M-Protein and Comparison of Its Amino Terminal Sequence with Two Immunologically Unrelated M-Protein Molecules

301 The V Region Sequence of λ Bence-Jones Protein Wh: Evidence for Separate Germ-Line Sets within λ-Subgroups

326 The Interaction of C5 with C5b in Free Solution: A Sufficient Condition for Cleavage by a Fluid Phase C3/C5 Convertase

Continued on page 4
Continued from page 3

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. R. Skelly, P. Munkenbeck, and D. C. Morrison</td>
<td>468</td>
<td>Immune Responses to Hapten-Lipopolysaccharide Conjugates in Mice. II. Characterization of the Molecular Requirements for the Induction of Antibody Synthesis</td>
</tr>
</tbody>
</table>

**IMMUNOGENETICS AND TRANSPLANTATION**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. B. Widmer and H. R. MacDonald</td>
<td>48</td>
<td>Cytolytic T Lymphocyte Precursors Reactive against Mutant K6 Alloantigens Are As Frequent as Those Reactive against a Whole Foreign Haplotype</td>
</tr>
<tr>
<td>A. Dessein, S.-T. Ju, M. E. Dorf, B. Benacerraf, and R. N. German</td>
<td>71</td>
<td>IgE Response to Synthetic Polypeptide Antigens. II. Idiotypic Analysis of the IgE Response to L-Glutamic Acid(^{20})-L-Alanine(^{20})-L-Tyrosine(^{15}) (GAT)</td>
</tr>
<tr>
<td>B. Rubin, P. Golstein, O. Nordfang, and B. Hertel-Wulff</td>
<td>161</td>
<td>Generation of H-2-Responsive T Cell Lines That Bear the 5936 Idiotype(s)</td>
</tr>
<tr>
<td>R. C. Newton and C. M. Warner</td>
<td>233</td>
<td>Genetic Control of the Immune Response of Mice to Highly Dinitrophenylated Human (\gamma)-Globulin (DNP(_9)HGG)</td>
</tr>
<tr>
<td>R. P. Polisson, H. Fujiwara, and G. M. Shearer</td>
<td>349</td>
<td>H-2-Linked Genetic Control of Priming for Secondary Cytotoxic Responses to Autologous Cells Modified with Low Concentrations of Trinitrobenzene Sulfonate</td>
</tr>
</tbody>
</table>

**IMMUNOPATHOLOGY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. E. Callard, B. Fazekas De St. Groth, A. Basten, and I. F. C. McKenzie</td>
<td>52</td>
<td>Immune Function in Aged Mice vs. Role of Suppressor Cells</td>
</tr>
<tr>
<td>M. Yoshinaga, K. Nishime, S. Nakamura, and F. Goto</td>
<td>94</td>
<td>A PMN-Derived Factor That Enhances DNA-Synthesis in PHA or Antigen-Stimulated Lymphocytes</td>
</tr>
<tr>
<td>N. F. Peirce and F. T. Koster</td>
<td>307</td>
<td>Priming and Suppression of the Intestinal Immune Response to Cholera Toxoid/Toxin by Parenteral Toxoid in Rats</td>
</tr>
<tr>
<td>R. A. Clark and S. J. Klebanoff</td>
<td>399</td>
<td>Neutrophil-Platelet Interaction Mediated by Myeloperoxidase and Hydrogen Peroxide</td>
</tr>
<tr>
<td>G. B. Toews, P. R. Bergstresser, and J. W. Streilein</td>
<td>445</td>
<td>Epidermal Langerhans Cell Density Determines Whether Contact Hypersensitivity or Unresponsiveness Follows Skin Painting with DNFB</td>
</tr>
</tbody>
</table>

**TUMOR IMMUNOLOGY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. L. Parker and E. Martz</td>
<td>25</td>
<td>Lectin-Induced Nonlethal Adhesions between Cytolytic T Lymphocytes and Antigenically Unreco...</td>
</tr>
<tr>
<td>M. J. Caulfield and J. Cerny</td>
<td>255</td>
<td>Analysis of Cytotoxic Effector Cell Function in Patients with Leukemia or Aplastic Anemia before and after Marrow Transplantation</td>
</tr>
</tbody>
</table>

Continued on page 5
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lipopolysaccharide Regulation of the Immune Response: Comparison of Responses to LPS in Germfree, <em>Escherichia coli</em>-Monoassociated and Conventional Mice</td>
<td>36</td>
</tr>
<tr>
<td>Viral Inhibition of Lymphocyte Mitogenesis. I. Evidence for the Nonspecificity of the Effect</td>
<td>64</td>
</tr>
<tr>
<td>Polyclonal B Lymphocyte Activation during <em>Trypanosoma cruzi</em> Infection</td>
<td>121</td>
</tr>
<tr>
<td>Mechanisms of Recovery from Viral Infections: Destruction of Infected Cells by Neutrophils and Complement</td>
<td>312</td>
</tr>
<tr>
<td>Physical Properties of Cytomegalovirus Immune Complexes Prepared with IgG Neutralizing Antibody, Anti-IgG, and Complement</td>
<td>337</td>
</tr>
<tr>
<td>Host Defense Mechanisms against <em>Trichinella spiralis</em> Infection in the Mouse: Eosinophil-Mediated Destruction of Newborn Larvae <em>in Vitro</em></td>
<td>355</td>
</tr>
<tr>
<td>Surface Markers of a Purified Peritoneal Eosinophil Population from <em>Mesocestoides corti</em>-Infected BALB/c Mice</td>
<td>406</td>
</tr>
<tr>
<td>Neonatal Susceptibility of MHV3 Infection in Mice. II. Role of Natural Effector Marrow Cells in Transfer of Resistance</td>
<td>418</td>
</tr>
<tr>
<td>Characterization of Lymphocyte Responsiveness in Early Experimental Syphilis. I. <em>In Vitro</em> Response to Mitogens and <em>Treponema pallidum</em> Antigens</td>
<td>454</td>
</tr>
<tr>
<td>Characterization of Lymphocyte Responsiveness in Early Experimental Syphilis. II. Nature of Cellular Infiltration and <em>Treponema pallidum</em> Distribution in Testicular Lesions</td>
<td>461</td>
</tr>
</tbody>
</table>