Contents

CELLULAR IMMUNOLOGY


P. A. Campbell, J. M. Collins, and K. E. Stedman 1385 A Spleen-Derived Maturation Factor Allows Immature Thymocytes, Prepared as Cells Bearing Low Amounts of Surface Sialic Acid, to Become Cytotoxic T Cells


A. M. Van Buskirk and H. Braley-Mullen 1400 In Vitro Activation of Specific Helper and Suppressor T Cells by the Type 2 Antigen Polyvinylpyrrolidone (PVP)


M. K. Heiskala, O. Carpén, E. Saksela, and T. Timonen 1414 Mechanism of Cell Contact-Mediated Inhibition of Natural Killer Activity

G. Doris, C. Mancini, D. Frasca, and L. Adorini 1419 Age Restriction in Antigen-Specific Immunosuppression

J. Merino, S. Schurmans, S. Lurzy, S. Izui, P. Vassalli, and P. H. Lambert 1426 Autoimmune Syndrome after Induction of Neonatal Tolerance to Allotransgens: Effects of In Vitro Treatment with Anti-T Cell Subset Monoclonal Antibodies

J. B. Splawski and P. E. Lipsky 1432 Antigen-Induced Proliferation and Immunoglobulin A Secretion by a Human-Human Hybridoma

N. Muggiano, L. M. Larocca, M. Piantelli, O. Acuto, and P. Musiani 1438 Expression of T Cell Receptor-α and -β Subunits in Human Thymocytes: An Immunocytologic Study

F. J. Ramsdell and S. H. Golub 1446 Generation of Lymphokine-Activated Killer Cell Activity from Human Thymocytes

S. Yoshida, K. Dorshkind, E. Bearer, J. J. Castles, A. Ahmed, and M. E. Gershwin 1454 Abnormalities of B Lineage Cells Are Demonstrable in Long-Term Lymphoid Bone Marrow Cultures of New Zealand Black Mice

P. Lebrun and H. L. Spiegelberg 1459 Concomitant Immunoglobulin and Immunoglobulin G1 Formation in Nippostrongylus brasiliensis-Infected Mice

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

P. L. Cohen, R. L. Check, J. A. Hadler, W. J. Yount, and R. A. Eisenberg 1466 The Subclass Distribution of Human IgG Rheumatoid Factor

J. J. Proust, C. R. Filburn, S. A. Harrison, M. A. Buchholz, and A. A. Nordin 1472 Age-Related Defect in Signal Transduction during Lectin Activation of Murine T Lymphocytes

M. D. Chapman, P. W. Heymann, and T. A. E. Platt-Mills 1479 Epitope Mapping of Two Major Inhalant Allergens, Der p 1 and Der f 1, from Mites of the Genus Dermatophagoides

S. Sriram, D. J. Topham, and L. Carroll 1485 Haplotype-Specific Suppression of Experimental Allergic Encephalomyelitis with Anti-IA Antibodies

Continued on page 4
C. G. Romball and W. O. Weigle


N. K. Damle, A. L. Childs, and L. V. Doyle

K. Ishihashi, S. Hanada, and S. Hashimoto

B. A. Woda and C. Padden


Continued from page 3

1490 The Effect of Aging on the Induction of Experimental Autoimmune Thyroiditis

1496 Elevated Titers of Cell-Free Interleukin 2 Receptor in Serum of Lupus Mice

1501 Immunoregulatory T Lymphocytes in Man: Soluble Antigen-Specific Suppressor-Inducer T Lymphocytes Are Derived from the CD4+CD45R-p80+ Subpopulation

1509 Expression of HTLV-I in Serum of HTLV-I-Related Subjects and the Early Detection of Overt ATL in HTLV-I Carriers

1514 Biobreeding/Worcester (BB/Wor) Rats Deficient in the Generation of Functional Cytotoxic T Cells

1518 Murine Interstitial Nephritis. VII. Suppression of Renal Injury after Treatment with Soluble Suppressor Factor TsFl

CYTOKINES • MEDIATORS • REGULATORY MOLECULES


S. N. Ho, R. T. Abraham, A. Nilson, B. S. Handwerger, and D. J. McKean

P. Seckinger, K. Williamson, J.-F. Balavoine, B. Mach, G. Mazzeti, A. Shaw, and J.-M. Dayer

P. Seckinger, J. W. Lowenthal, K. Williamson, J.-M. Dayer, and H. R. MacDonald


D. V. Messadi, J. S. Pober, W. Fiers, M. A. Gimbrone, Jr., and G. F. Murphy

Y. Richard, C. Leprince, B. Dugas, D. Treton, and P. Galanaud

1525 Activity of a Partially Purified Human BCGF On Murine Assays for B Cell Stimulatory Factors. II. Synergy between Two Distinct BCGF Il-Like Factors in Promoting B Cell Differentiation

1532 Interleukin 1-Mediated Activation of Interleukin 4 (IL-4):Producing T Lymphocytes: Proliferation by IL-4-Dependent and IL-4-Independent Mechanisms

1541 A Urine Inhibitor of Interleukin 1 Activity Affects Both Interleukin 1α and 1β But Not Tumor Necrosis Factor α

1546 A Urine Inhibitor of Interleukin 1 Activity that Blocks Ligand Binding

1550 Direct Activation of Human Resting T Cells by IL 2: The Role of an IL 2 Receptor Distinct from the TAC Protein

1557 Induction of an Activation Antigen on Postcapillary Venular Endothelium in Human Skin Organ Culture

1563 Reactivity of LEU-1+ Tonsillar B Cells to a High Molecular Weight B Cell Growth Factor

IMMUNOCHEMISTRY

P. A. Rosa, D. S. Sepich, D. M. Robins, and R. T. Ogata

B. S. Fox, C. Chen, E. Fraga, C. A. French, B. Singh, and R. H. Schwartz


W. C. Hanly, L. Cook, M. Kingzette, W. Cox, S. Frutiger, G. J. Hughes, and J.-C. Jaton

S. Hosoi, A. Circolo, and T. Borссos

D. P. Snider and D. M. Segal

1568 Constitutive Expression of Slp Genes in Mouse Strain B10.WR Directed by C4 Regulatory Sequences

1578 Functionally Distinct Agretopic and Epitopic Sites: Analysis of the Dominant T Cell Determinant of Moth and Pigeon Cytochromes c with the Use of Synthetic Peptide Antigens

1589 Tissue Distribution and Biochemical and Functional Properties of Tp55 (CD27), a Novel T Cell Differentiation Antigen

1597 Rabbit Secretory Components: Identification of a Third Allotype, t63

1602 Activation of Human C1: Analysis with Western Blotting Reveals Slow Self-Activation

1609 Targeted Antigen Presentation Using Cross-linked Antibody Heteroaggregates

Continued on page 5
**IMMUNOPHARMACOLOGY**

M. Itaka, Y. Iwatani, V. V. Row., and R. Volpé  
Induction of Monocyte Procoagulant Activity with OKT3 Antibody  
1617

M. V. White and M. A. Kaliner  
Neutrophils and Mast Cells. I. Human Neutrophil-Derived Histamine-Releasing Activity  
1624

K. M. Skubitz and R. W. Snook II  
Monoclonal Antibodies that Recognize Lacto-N-fucopentaose III (CD15) React with the Adhesion-Promoting Glycoprotein Family (LFA-1/HMAC-1/GP 150.95) and CR1 on Human Neutrophils  
1631

H. R. Katz, J. S. Levine, and K. F. Austen  
Interleukin 3-Dependent Mouse Mast Cells Express the Cholera Toxin-Binding Acidic Glycosphingolipid, Ganglioside GMI, and Increase Their Histamine Content in Response to Toxin  
1640

**MICROBIAL IMMUNOLOGY**

M. F. Lima and F. Kierszenbaum  
Lactoferrin Effects on Phagocytic Cell Function. II. The Presence of Iron Is Required for the Lactoferrin Molecule to Stimulate Intracellular Killing by Macrophages But Not to Enhance the Uptake of Particles and Microorganisms  
1647

R. B. Lal, T. J. Lynch, and T. B. Nutman  
Brugia malayi Antigens Associated with Lymphocyte Activation in Filariasis  
1652

A. Charbit, E. Sobczak, M.-L. Michel, A. Molle, P. Tiollais, and M. Hofnung  
Presentation of Two Epitopes of the preS2 Region of Hepatitis B Virus on Live Recombinant Bacteria  
1658

Divergent Changes in Antimicrobial Activity after Immunologic Activation of Mouse Peritoneal Macrophages  
1665

J. T. van Dissel, J. J. M. Stikkelbroeck, B. C. Michel, M. Th. van den Barselaar, P. C. J. Leijh, and R. van Furth  
Inability of Recombinant Interferon-γ to Activate the Antibacterial Activity of Mouse Peritoneal Macrophages against Listeria monocytogenes and Salmonella typhimurium  
1673

P. Romero, E. P. Heimer, S. Herrera, A. M. Felix, R. S. Nussenzweig, and F. Zavala  
Antigenic Analysis of the Repeat Domain of the Circumsporozoite Protein of Plasmodium vivax  
1679

**MOLECULAR BIOLOGY • MOLECULAR GENETICS**

Structural Diversity of Murine Serum Amyloid A Genes: Evolutionary Implications  
1683

S. Hoch and J. Schwaber  
Identification and Sequence of the Vh Gene Elements Encoding a Human Anti-DNA Antibody  
1689

S. H. Benedict, G. B. Mills, and E. W. Gelfand  
Interleukin 2 Activates a Receptor-Associated Protein Kinase  
1694

Immunologic Memory to PC-KLH: Participation of the Q52 Vh Gene Family  
1698

C. A. Biron, P. van den Eis, M. M. Tutt, P. Medveczky, V. Kumar, and C. Terhorst  
Murine Natural Killer Cells Stimulated In Vivo Do Not Express the T Cell Receptor α, β, γ, T3δ, or T3ε Genes  
1704

Continued on page 6
Continued from page 5

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y. Ina, Y. Koide, N. Nezu, and T. O. Yoshida</td>
<td>1711</td>
<td>Regulation of HLA Class II Antigen Expression: Intracellular Signaling Molecules Responsible for the Regulation by IFN-γ and Cross-Linking of Fc Receptors in HL-60 Cells</td>
</tr>
<tr>
<td>C. Nottenburg, T. St. John, and I. L. Weissman</td>
<td>1718</td>
<td>Unusual Immunoglobulin DNA Sequences from the Nonexpressed Chromosome of Mouse Normal B Lymphocytes: Implications for Allelic Exclusion and the DNA Rearrangement Process</td>
</tr>
<tr>
<td>P. P. Chen, K. Albrandt, T. J. Kipps, V. Radoux, F.-T. Liu, and D. A. Carson</td>
<td>1727</td>
<td>Isolation and Characterization of Human VkIII Germ-Line Genes: Implications for the Molecular Basis of Human VkIII Light Chain Diversity</td>
</tr>
</tbody>
</table>

**TUMOR IMMUNOLOGY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. E. Street, R. J. Fulton, V. M. Sanders, and E. S. Vitetta</td>
<td>1734</td>
<td>Inhibition of the Helper Function of Murine T Cells with Fab'-Anti-L3T4 Ricin A Chain Immunotoxin</td>
</tr>
<tr>
<td>R. C. Roozemond, M. Mevissen, D. C. Urli, and B. Bonavida</td>
<td>1739</td>
<td>Effect of Altered Membrane Structure on NK Cell-Mediated Cytotoxicity. III. Decreased Susceptibility to Natural Killer Cytotoxic Factor (NKCF) and Suppression of NKCF Release by Membrane Rigidification</td>
</tr>
</tbody>
</table>

Erratum 1747
Announcements 1747
Author Index 1749