Contents

CELLULAR IMMUNOLOGY

P. A. Campbell, J. M. Collins, and K. E. Stedman  1385  A Spleen-Derived Maturational 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. Schurman, S. Luzuy, S. Izui, P. Vassalli, and P. H. Lambert  1426  Autoimmune Syndrome after Induction of Neonatal Tolerance to Alloantigens: Effects of In Vitro Treatment with Anti-T Cell Subset Monoclonal Antibodies
J. B. Saplowski and P. E. Lipsky  1432  Antigen-Induced Proliferation and Immunoglobulin A Secretion by a Human-Human Hybridoma
N. Mazziano, 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 I and Der f I, 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
Continued from page 3

C. G. Romball and W. O. Weigle


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

K. Ishibashi, S. Hanada, and S. Hashimoto

B. A. Woda and C. Padden


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/Worchester (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 TsF₁

---

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**


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. Borsos

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 Agretonic 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
M. Iitaka, Y. Iwatani, V. V. Row, and R. Volpé

1617 Induction of Monocyte Procoagulant Activity with OKT3 Antibody

M. V. White and M. A. Kaliner

1624 Neutrophils and Mast Cells. I. Human Neutrophil-Derived Histamine-Releasing Activity

K. M. Skubitz and R. W. Snook

1631 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

H. R. Katz, J. S. Levine, and K. F. Austen

1640 Interleukin-3-Dependent Mouse Mast Cells Express the Cholera Toxin-Binding Acidic Glycosphingolipid, Ganglioside G, and Increase Their Histamine Content in Response to Toxin

M. F. Lima and F. Kierszenbaum

1647 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

R. B. Lal, T. J. Lynch, and T. B. Nutman

1652 Brugia malayi Antigens Associated with Lymphocyte Activation in Filariasis

A. Charbit, E. Sobczak, M.-L. Michel, A. Molle, P. Tiollais, and M. Hofnung

1658 Presentation of Two Epitopes of the preS2 Region of Hepatitis B Virus on Live Recombinant Bacteria


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

J. T. van Dissel, J. J. M. Stikkelbroeck, B. C. Michel, M. Th. van den Barselaar, P. C. J. Leijn, and R. van Furth

1673 Inability of Recombinant Interferon-γ to Activate the Antibacterial Activity of Mouse Peritoneal Macrophages against Listeria monocytogenes and Salmonella typhimurium

P. Romero, E. P. Heimer, S. Herrera, A. M. Felix, R. S. Nussenzweig, and F. Zavala

1679 Antigenic Analysis of the Repeat Domain of the Circumsporozoite Protein of Plasmodium vivax


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

S. Hoch and J. Schwaber

1694 Interleukin 2 Activates a Receptor-Associated Protein Kinase

S. H. Benedict, G. B. Mills, and E. W. Gelfand

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


1704 Murine Natural Killer Cells Stimulated In Vivo Do Not Express the T Cell Receptor α, β, γ, T3δ, or T3ε Genes

C. A. Biron, P. van den Eisden, M. M. Tutt, P. Medveczky, V. Kumar, and C. Terhorst

Continued on page 6
### 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

Y. Ina, Y. Koide, N. Nezu, and T. O. Yoshida

1711

### Unusual Immunoglobulin DNA Sequences from the Nonexpressed Chromosome of Mouse Normal B Lymphocytes: Implications for Allelic Exclusion and the DNA Rearrangement Process

C. Nottenburg, T. St. John, and I. L. Weissman

1718

### Isolation and Characterization of Human VkIII Germ-Line Genes: Implications for the Molecular Basis of Human VkIII Light Chain Diversity

P. P. Chen, K. Albrandt, T. J. Kipps, V. Radoux, F.-T. Liu, and D. A. Carson

1727

### Inhibition of the Helper Function of Murine T Cells with Fab’-Anti-L3T4 Ricin A Chain Immunotoxin

N. E. Street, R. J. Fulton, V. M. Sanders, and E. S. Vitetta

1734

### 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

R. C. Roozemond, M. Mevissen, D. C. Urli, and B. Bonavida

1739

### TUMOR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. E. Street, R. J. Fulton, V. M. Sanders, and E. S. Vitetta</td>
<td>1734</td>
</tr>
<tr>
<td>R. C. Roozemond, M. Mevissen, D. C. Urli, and B. Bonavida</td>
<td>1739</td>
</tr>
</tbody>
</table>

### Erratum

1747

### Announcements

1747

### Author Index

1749