This information is current as of April 19, 2017.
## Contents

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. Berry, K. Ase, U. Kikkawa, A. Kishimoto, and Y. Nishizuka</td>
<td>Human T Cell Activation by Phorbol Esters and Diacylglycerol Analogues</td>
<td>1407</td>
</tr>
<tr>
<td>M. Brunswick, C. H. June, F. D. Finkelman, and J. J. Mond</td>
<td>Different Patterns of Inositol Polyphosphate Production Are Seen in B Lymphocytes after Cross-Linking of sIg by Anti-Ig Antibody or by a Multivalent Anti-Ig Antibody Dextran Conjugate</td>
<td>1414</td>
</tr>
<tr>
<td>D. Burstyn and M. Zauderer</td>
<td>Requirements for Stimulation of Autoreactive T Cells by Thymic Stroma</td>
<td>1422</td>
</tr>
<tr>
<td>P. B. Ernst, S. Tone-Lee, J. Maeba, J. Bienenstock, A. M. Stanisz, and F. Paraskevas</td>
<td>A Role for Iso[te-Specific Binding Factors in the Regulation of IgA- and IgG-Specific Responses by the Anti/Contrasuppressor T Cell Circuit</td>
<td>1426</td>
</tr>
<tr>
<td>R. Guy and R. J. Hodes</td>
<td>Antigen-Specific, MHC-Restricted B Cell Activation by Cell-Free Th2 Cell Products: Synergy between Antigen-Specific Helper Factors and IL-4</td>
<td>1433</td>
</tr>
<tr>
<td>W. R. Heath, A. Vitiello, and L. A. Sherman</td>
<td>Mapping of Epitopes Recognized by Alloreactive Cytotoxic T Lymphocytes Using Inhibition by MHC Peptides</td>
<td>1441</td>
</tr>
<tr>
<td>S. Jiang, P. M. Persechini, B. Perussia, and J. D.-E. Young</td>
<td>Resistance of Cytolytic Lymphocytes to Perforin-Mediated Killing: Murine Cytotoxic T Lymphocytes and Human Natural Killer Cells Do Not Contain FunctionalSoluble Homologous Restriction Factor or Other Specific Soluble Protective Factors</td>
<td>1453</td>
</tr>
<tr>
<td>M. A. Kolber, R. R. Quinones, F. Ramsdell, and B. J. Fowlkes</td>
<td>Target Cell Lysis by Cytotoxic T Lymphocytes Redirected by Antibody-Coated Polystyrene Beads</td>
<td>1461</td>
</tr>
<tr>
<td>F. Ramsdell and B. J. Fowlkes</td>
<td>Engagement of CD4 and CD8 Accessory Molecules Is Required for T Cell Maturation</td>
<td>1467</td>
</tr>
<tr>
<td>A. B. Reske-Kunz, D. Landais, J. Peccoud, C. Benoist, and D. Mathis</td>
<td>Functional Sites on the Aα-Chain: Polymorphic Residues Involved in Antigen Presentation to Insulin-Specific, Aα:Aβ3 Restricted T Cells</td>
<td>1472</td>
</tr>
<tr>
<td>J. Rhodes</td>
<td>Evidence for an Intercellular Covalent Reaction Essential in Antigen-Specific T Cell Activation</td>
<td>1482</td>
</tr>
<tr>
<td>F. Rousset, M. Billaud, D. Blanchard, C. Figdor, G. M. Lenoir, H. Spits, and J. E. de Vries</td>
<td>IL-4 Induces LFA-1 and LFA-3 Expression on Burkitt's Lymphoma Cell Lines: Requirement of Additional Activation by Phorbol Myristate Acetate for Induction of Homotypic Cell Adhesions</td>
<td>1490</td>
</tr>
<tr>
<td>S. R. Schell and F. W. Fitch</td>
<td>Pretreatment of Cloned Helper T Lymphocytes with IL-2 Induces Unresponsiveness to Antigen and Concanavalin A, Associated with Decreased Inositol Phosphate and Diacylglycerol Production</td>
<td>1499</td>
</tr>
<tr>
<td>H. Spits, X. Paliard, and J. E. de Vries</td>
<td>Antigen-Specific, But Not Natural Killer, Activity of Cell Receptor-γδ Cytotoxic T Lymphocyte Clones Involves Secretion of αα-Benzoyloxyxycarbonyl-L-lysine-Thiobenzyl Ester Serine Esterase and Influx of Ca 2+ Ions</td>
<td>1506</td>
</tr>
<tr>
<td>A. Vitiello, W. R. Heath, and L. A. Sherman</td>
<td>Consequences of Self-Presentation of Peptide Antigen by Cytolytic T Lymphocytes</td>
<td>1512</td>
</tr>
<tr>
<td>N. Yamashita and L. T. Clement</td>
<td>Phenotypic Characterization of the Post-Thymic Differentiation of Human Alloantigen-Specific CD8+ Cytotoxic T Lymphocytes</td>
<td>1518</td>
</tr>
</tbody>
</table>

Continued on page 4
Continued from page 3

**CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY**

E. Azuma, H. Yamamoto, and J. Kaplan
J.-P. Bouvet, J. Couderc, Y. Bouthillier, B. Franc, C. Decreusefond, and D. Mouton
M. J. Crain, S. K. Sanders, J. L. Butler, and M. D. Cooper
K. B. Elkon, E. Bonfa, R. Llovet, and R. A. Eisenberg
A. R. Hayward and M. Shreiber
E. C. McKinney and J. W. Streilein
P. K. A. Mongini, C. Blessinger, D. N. Posnett, and S. M. Rudich
J. L. Roberts, D. J. Volkman, and R. H. Buckley
Y. Tanaka, K. Saito, H. Suzuki, S. Eto, and U. Yamashita

1524 Use of Lymphokine-Activated Killer Cells to Prevent Bone Marrow Graft Rejection and Lethal Graft-vs-Host Disease
1530 Enhancement by Various Cytokines or 2-3-Mercaptoethanol of 1a Antigen Expression on Langerhans Cells in Skin from Normal and Aged and Young Mice: Effect of Cyclosporine A
1537 Collagen-Induced Arthritis in Blozzi Mice: Joint Involvement Is Not Correlated with Collagen II IgG2a Autoantibodies nor Restricted to Only H-2's and H-2'
1543 Epstein-Barr Virus Preferentially Induces Proliferation of Primed B Cells
1549 Association between Anti-Sm and Anti-Ribosomal P Protein Autoantibodies in Human Systemic Lupus Erythematosus and MRL/lPR Mice
1555 Neonatal Injection of CD3 Antibody into Nonobese Diabetic Mice Reduces the Incidence of Insulitis and Diabetes
1560 On the Extraordinary Capacity of Allogeneic Epidermal Langerhans Cells to Prime Cytotoxic T Cells In Vivo
1565 Membrane IgD and Membrane IgM Differ in Capacity to Transduce Inhibitory Signals within the Same Human B Cell Clonal Populations
1575 Modified MHC Restriction of Donor-Origin T Cells in Humans with Severe Combined Immunodeficiency Transplanted with Haploidentical Bone Marrow Stem Cells
1580 FK-506, a Potent Novel Immunosuppressive Agent, Binds to a Cytosolic Protein Which Is Distinct from the Cyclosporin A-Binding Protein, Cyclophilin
1584 Inhibitory Effect of Anti-Class II Antibody on the Spontaneous Activation of B Cells in Patients with Systemic Lupus Erythematosus: Analysis with IL-1 Production and IL-1 Receptor Expression

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

W. F. Chen, M. Fischer, G. Frank, and A. Zlotnik
J. S. Hunt, M. J. Soares, M.-G. Lei, R. N. Smith, D. Wheaton, R. A. Atherton, and D. C. Morrison
W. J. Johnson, A. Kelley, J. R. Connor, B. J. Dalton, and P. C. Meunier
M. Mawatari, K. Kohno, H. Mizoguchi, T. Matsuda, K.-I. Asoh, J. Van Damme, H. G. Weigus, and M. Kuwano
M. Sticherling, J.-M. Schröder, and E. Christophers
M. D. Wewers and D. J. Herzyk

1591 Transforming Growth Factor-β, Selectively Inhibits IL-3-Dependent Mast Cell Proliferation without Affecting Mast Cell Function or Differentiation
1598 Distinct Patterns of Lymphokine Requirement for the Proliferation of Various Subpopulations of Activated Thymocytes in a Single-Cell Assay
1606 Products of Lipopolysaccharide-Activated Macrophages (Tumor Necrosis Factor-α, Transforming Growth Factor-β) But Not Lipopolysaccharide Modify DNA Synthesis by Rat Trophoblast Cells Exhibiting the 80-kDa Lipopolysaccharide-Binding Protein
1614 Inhibition of IFN-γ-Induced 1a Antigen Expression on Synovial Fibroblasts by IL-1
1619 Effects of Tumor Necrosis Factor and Epidermal Growth Factor on Cell Morphology, Cell Surface Receptors, and the Production of Tissue Inhibitor of Metalloproteinases and IL-6 in Human Microvascular Endothelial Cells
1628 Production and Characterization of Monoclonal Antibodies against the Novel Neutrophil Activating Peptide NAP/IL-8
1635 Alveolar Macrophages Differ from Blood Monocytes in Human IL-1β Release: Quantitation by Enzyme-Linked Immunoassay

Continued on page 5
J. C. Edberg, P. B. Redecha, J. E. Salmon, and R. P. Kimber
P. M. Guyre, R. F. Graziano, B. A. Vance, P. M. Morganelli, and M. W. Fanger
C. Mold
A. Perianin and R. Snyderman
J. K. Pullen, H. D. Hunt, R. M. Horton, and L. R. Pease

**IMMUNOCHEMISTRY**

J. K. Pullen, H. D. Hunt, R. M. Horton, and L. R. Pease

1642 Human FcγRIII (CD16). Isoforms with Distinct Allelic Expression, Extracellular Domains, and Membrane Linkages on Polymorphonuclear and Natural Killer Cells

1650 Monoclonal Antibodies That Bind to Distinct Epitopes on FcγRI Are Able to Trigger Receptor Function

1656 Interaction between Hybrid Mouse Monoclonal Antibodies and the Human High-Affinity IgG FcR, huFcγRI, on U937: Involvement of Only One of the mIgG Heavy Chains in Receptor Binding

1663 Effect of Membrane Phospholipids on Activation of the Alternative Complement Pathway

1669 Mastoparan, a Wasp Venom Peptide, Identifies Two Discrete Mechanisms for Elevating Cytosolic Calcium and Inositol Trisphosphates in Human Polymorphonuclear Lymphocytes

1674 The Functional Significance of Two Amino Acid Polymorphisms in the Antigen-Presenting Domain of Class I MHC Molecules: Molecular Dissection of Kbm3

**IMMUNOPHARMACOLOGY**

D. English, M. T. Rizzo, G. Tricot, and R. Hoffman
G. A. Koretzky, M. Wahi, M. E. Newton, and A. Weiss
D. J. Kusner and C. H. King

1680 Structures of Histamine-Releasing Peptides Formed by the Action of Acid Proteases on Mammalian Albumin(s)

1685 Involvement of Guanine Nucleotides in Superoxide Release by Fluoride-Treated Neutrophils. Implications for a Role of a Guanine Nucleotide Regulatory Protein

1692 Heterogeneity of Protein Kinase C Isoenzyme Gene Expression in Human T Cell Lines: Protein Kinase C-β is Not Required for Several T Cell Functions

1696 Protease-Modulation of Neutrophil Superoxide Response

**MICROBIAL IMMUNOLOGY**

G. A. Jarvis and J. M. Griffiss
J. Roesler, E. Gröttrup, M. Baccarini, and M.-L. Lohmann-Mattes
M. C. Seguin, W. R. Ballou, and C. A. Nacy

1703 Human IgA1 Initiates Complement-Mediated Killing of Neisseria meningitidis

1710 Efficient Natural Defense Mechanisms against Listeria monocytogenes In T and B Cell-Deficient Allogeneic Bone Marrow Radiation Chimeras. Preactivated Macrophages Are the Main Effector Cells in an Early Phase after Bone Marrow Transfer

1716 Interactions of Plasmodium berghei Sporozoites and Murine Kupffer Cells In Vitro

**MOLECULAR BIOLOGY • MOLECULAR GENETICS**

A. Aruffo and B. Seed
M. R. Clark, S. B. Clarkson, P. A. Ory, N. Stollman, and I. M. Goldstein

1723 Expression of cDNA Clones Encoding the Thymocyte Antigens CD1a, b, c Demonstrates a Hierarchy of Exclusion in Fibroblasts

1731 Molecular Basis for a Polymorphism Involving Fc Receptor II on Human Monocytes

Announcements
Author Index