Contents

CELLULAR IMMUNOLOGY

R. Buelow, R. E. O’Hehir, R. Schreifels, T. J. Kummerelli, G. Riley, and J. R. Lamb
E. P. Grant and K. L. Rock
K.-M. Kim, T. Ishigami, D. Hata, Y. Higaki, M. Morita, K. Yamaoka, M. Mayumi, and H. Mikawa
Z. Liu, N. S. Braunstein, and N. Suciu-Foca
T. H. Pielia-Smith, T. Aune, L. Aneiro, E. Nuveen, and J. H. Korn
M. J. Smyth, Y. Northisa, and J. R. Ortaldo

1 Localization of the Immunologic Activity in the Superantigen Staphylococcal Enterotoxin B using Truncated Recombinant Fusion Proteins

7 Endogenous Loading of HLA-A2 Molecules with an Analog of the Influenza Virus Matrix Protein-Derived Peptide and Its Inhibition by an Exogenous Peptide Antagonist

13 MHC Class I-Restricted Presentation of Exogenous Antigen by Thymic Antigen-Presenting Cells in Vitro and in Vivo

19 Expression of Variable Exon A-, B-, and C-Specific CD45 Determinants on Peripheral and Thymic T Cell Populations

29 Anti-IgM but not Anti-IgD Antibodies Inhibit Cell Division of Normal Human Mature B Cells

35 T Cell Recognition of Allopeptides in Context of Syngeneic MHC

41 Impairment of Lymphocyte Adhesion to Cultured Fibroblasts and Endothelial Cells by γ-Irradiation

47 Central Role for TCR/CD3 Ligation in the Differentiation of CD4+ T Cells Toward a Th1 or Th2 Functional Phenotype

55 Multiple Cytolytic Mechanisms Displayed by Activated Human Peripheral Blood T Cell Subsets

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

E. W. Johnson, L. A. Jones, and R. W. Kozak
T. W. Kuijpers, M. Hoogerwerf, and D. Roos
R. A. Swerlick, K. H. Lee, T. M. Wick, and T. J. Lawley

63 Expression and Function of Insulin-Like Growth Factor Receptors on Anti-CD3-Activated Human T Lymphocytes

72 Neutrophil Migration Across Monolayers of Resting or Cytokine-Activated Endothelial Cells: Role of Intracellular Calcium Changes and Fusion of Specific Granules with the Plasma Membrane

78 Human Dermal Microvascular Endothelial but not Human Umbilical Vein Endothelial Cells Express CD36 in Vivo and in Vitro

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

O. Bakouche, J. L. Moreau, and L. B. Lachman
S. H. Chan, M. Kobayashi, D. Santoli, B. Perussia, and G. Trinchieri

84 Secretion of IL-1: Role of Protein Kinase C

92 Mechanisms of IFN-γ Induction by Natural Killer Cell Stimulatory Factor (NKSF/IL-12): Role of Transcription and mRNA Stability in the Synergistic Interactions between NKSF and IL-2

Continued on page 5
A. Herbelin, F. Machovoine, E. Schneider, M. Papiernik, and M. Dy
S. Nourshargh, J. A. Perkins, H. J. Showell, K. Matsushima, T. J. Williams, and P. D. Collins
B. J. van Lenten and A. M. Fogelman

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>99</td>
<td>IL-7 Is Requisite for IL-1-Induced Thymocyte Proliferation: Involvement of IL-7 in the Synergistic Effects of Granulocyte-Macrophage Colony-Stimulating Factor or Tumor Necrosis Factor with IL-1</td>
</tr>
<tr>
<td>106</td>
<td>A Comparative Study of the Neutrophil Stimulatory Activity in Vitro and Pro-Inflammatory Properties in Vivo of 72 Amino Acid and 77 Amino Acid IL-8</td>
</tr>
<tr>
<td>112</td>
<td>Lipopolysacceride-Induced Inhibition of Scavenger Receptor Expression in Human Monocyte-Macrophages Is Mediated through Tumor Necrosis Factor-α</td>
</tr>
</tbody>
</table>

**IMMUNOCHEMISTRY**

T. Fujii, T. Nakamura, A. Sekizawa, and S. Tomonaga
C. Peng, F. M. Davis, L. K. Sun, R. S. Liou, Y. W. Kim, and T. W. Chang
R. E. Spitzer, A. E. Stitzel, and G. C. Tsokos
J. M. Teale, K. M. Sievers, R. R. Crawley, and B. L. Kotzin

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>Isolation and Characterization of a Protein from Hagfish Serum that Is Homologous to the Third Component of the Mammalian Complement System</td>
</tr>
<tr>
<td>124</td>
<td>Paramyosin Inhibits Complement C1</td>
</tr>
<tr>
<td>129</td>
<td>A New Isoform of Human Membrane-Bound IgE</td>
</tr>
<tr>
<td>137</td>
<td>Autoantibody to the Alternative Pathway C3/C5 Convertase and Its Antidiotypic Response: A Study In Affinity</td>
</tr>
<tr>
<td>142</td>
<td>Ig V, Family Repertoire of Plasma Cells Derived from Autoimmune MRL Mice</td>
</tr>
</tbody>
</table>

**IMMUNOPHARMACOLOGY**

F. Beauvais, T. Shimahara, I. Inoue, C. Hieblot, C. Burtin, and J. Benveniste
J. S. Bomalaski, M. R. Steiner, P. L. Simon, and M. A. Clark
P. M. Lacal, I. Barasoain, A. Sánchez, J. García-Sancho, I. Flores, and F. Molinredo

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>149</td>
<td>Regulation of Human Basophil Activation. II. Histamine Release Is Potentiated by K⁺ Efflux and Inhibited by Na⁺ Influx</td>
</tr>
<tr>
<td>155</td>
<td>IL-1 Increases Phospholipase A₂ Activity, Expression of Phospholipase A₂-Activating Protein and Release of Linoleic Acid from the Murine T Helper Cell Line EL-4</td>
</tr>
<tr>
<td>161</td>
<td>A Monoclonal Antibody that Detects a Specific Human Neutrophil Antigen Involved in Phorbol Myristate Acetate- and Formyl-Methionyl-Leucyl-Phenylalanine-Triggered Respiratory Burst</td>
</tr>
<tr>
<td>169</td>
<td>Effect of Recombinant IFN-γ (rIFN-γ) on the Mechanism of Human Macrophage IgG FcRI-Mediated Cytotoxicity: rIFN-γ Decreases Inhibition by Cytotoxic Human IgG and Changes the Cytolytic Mechanism</td>
</tr>
<tr>
<td>177</td>
<td>Neutrophil Stimulation and Priming by Direct Contact with Activated Human T Lymphocytes</td>
</tr>
</tbody>
</table>

**MICROBIAL IMMUNOLOGY**

R. T. Gazzinelli, M. Makino, S. K. Chattopadhyay, C. M. Snapper, A. Sher, A. W. Hugin, and H. C. Morse III
I. M. Orme, E. S. Miller, A. D. Roberts, S. K. Furney, J. P. Griffin, K. M. Dobos, D. Chi, B. Rivoire, and P. J. Brennan

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>182</td>
<td>CD4⁺ Subset Regulation in Viral Infection: Preferential Activation of Th2 Cells during Progression of Retrovirus-Induced Immunodeficiency in Mice</td>
</tr>
<tr>
<td>189</td>
<td>T Lymphocytes Mediation Protection and Cellular Cytolysis during the Course of <em>Mycobacterium tuberculosis</em> Infection: Evidence for Different Kinetics and Recognition of a Wide Spectrum of Protein Antigens</td>
</tr>
</tbody>
</table>

Continued on page 7
Continued from page 5

S. Pied, A. Civas, F. Berlot-Picard, L. Renia, P. Miltgen, M. Gentilini, J. Doly, and D. Mazier
D. M. Russo, S. J. Turco, J. M. Burns, Jr., and S. G. Reed
A. Saul, R. Lord, G. L. Jones, and L. Spencer
P. A. Scherle, G. Palladino, and W. Gerhard
P. M. Stuart and J. G. Woodward
S. Su, M. McNamara Ward, M. A. Apicella, and R. E. Ward
W. C. van Voorhis

197 IL-6 Induced by IL-1 Inhibits Malaria Pre-Erythrocytic Stages but its Secretion Is Down-Regulated by the Parasite

202 Stimulation of Human T Lymphocytes by Leishmania Lipophosphoglycan-Associated Proteins

208 Protective Immunization with Invariant Peptides of the Plasmodium falciparum Antigen MSA2

212 Mice Can Recover from Pulmonary Influenza Virus Infection in the Absence of Class I-Restricted Cytotoxic T Cells

218 Epitopes on the Outer Surface Protein A of Borrelia burgdorferi Recognized by Antibodies and T Cells of Patients with Lyme Disease

225 Yersinia enterocolitica Produces Superantigenic Activity

234 A Nontoxic, Idiotope Vaccine against Gram-Negative Bacterial Infections

239 Coculture of Human Peripheral Blood Mononuclear Cells with Trypanosoma cruzi Leads to Proliferation of Lymphocytes and Cytokine Production

---

MOLECULAR BIOLOGY • MOLECULAR GENETICS

Y. Seto, R. Fukunaga, and S. Nagata
D. L. Simmons, A. B. Satterthwaite, D. G. Tenen, and B. Seed

249 Polymorphism, Recombination, and Linkage Disequilibrium within the HLA Class II Region

259 Chromosomal Gene Organization of the Human Granulocyte Colony-Stimulating Factor Receptor

267 Molecular Cloning of a cDNA Encoding CD34, a Sialomucin of Human Hematopoietic Stem Cells

272 Expression of a Functional Chimeric Ig-MHC Class II Protein

---

TUMOR IMMUNOLOGY

D. Huber, J. Philipp, and A. Fontana
E. A. Kabat

277 Protease Inhibitors Interfere with the Transforming Growth Factor-β-Dependent but not the Transforming Growth Factor-β-Independent Pathway of Tumor Cell-Mediated Imunosuppression

285 Generation, Propagation, and Targeting of Human CD4+ Helper/Killer T Cells Induced by Anti-CD3 Monoclonal Antibody Plus Recombinant IL-2: An Efficient Strategy for Adoptive Tumor Immunotherapy

292 Purification of a Factor from the Granules of a Rat Natural Killer Cell Line (RNK) that Reduces Tumor Cell Growth and Changes Tumor Morphology: Molecular Identity with a Granule Serine Protease (RNKP-1)


Announcement

Author Index