Contents

COMMENTS

T. M. Folks

3913 Epitope Mapping of Human Immunodeficiency Virus: A Monoclonal Approach

COMMUNICATION

R. Korpela, S. Jalkanen, L. Pal-järvi, and P. Toivanen

3915 Early Embryonic Bursectomy Induces Eosinophilia

CELLULAR IMMUNOLOGY

L. D. Falo, Jr., B. Benacerraf, L. Rothstein, and R. L. Rock

3918 Cerulenin Is a Potent Inhibitor of Antigen Processing by Antigen-Presenting Cells


3924 Lymphoma Models for B Cell Activation and Tolerance. VI. Reversal of Anti-Ig-Mediated Negative Signaling by T Cell-Derived Lymphokines


3930 Stepwise Activation of T Cells: Role of the Calcium Ionophore A23187

T. Nakayama, M. Kubo, H. Gomi, Y. Asano, and T. Tada

3935 Major Histocompatibility Complex-Restricted Augmenting T Cells Induced by In Vitro Cultivation of Antigen-Primed T Cells: A New Parallelism between Suppressor and Augmenting Circuits


3942 Interleukin 2 and Concanavalin A Stimulate Interferon-γ Production in a Murine Cytolytic T Cell Clone by Different Pathways

M.-L. Blue, D. A. Hafler, K. A. Craig, H. Levine, and S. F. Schlossman

3949 Phosphorylation of CD4 and CD8 Molecules following T Cell Triggering

P. Naquet, J. Ellis, B. Singh, R. S. Hodges, and T. L. Delovitch

3955 Processing and Presentation of Insulin. I. Analysis of Immunogenic Peptides and Processing Requirements for Insulin A Loop-Specific T Cells

C.-C. Ting and M. E. Hargrove

3964 Generation of Antisuppressor T Cells for Alloreactive Cytotoxic T Lymphocytes


3973 T Lymphocyte Response to Bacteriophage λ Repressor cI Protein: Recognition of the Same Peptide Presented by la Molecules of Different Haplotypes

R. Pabst and J. D. Reynolds

3981 Peyer’s Patches Export Lymphocytes throughout the Lymphoid System in Sheep


3986 Sequential Appearance of Thymocyte Subpopulations and T Cell Antigen Receptor Gene Messages in the Mouse Thymus after Sublethal Irradiation

Continued on page 4
Continued from page 3

O. Kanagawa and R. Nagasawa 3991 Dissociation of Alloantigen Recognition from Self Major Histocompatibility Complex-Restricted Recognition of Cytolytic T Lymphocytes by Monoclonal Antireceptor Antibodies

P. R. Blier and A. Bothwell 3996 A Limited Number of B Cell Lineages Generates the Heterogeneity of a Secondary Immune Response

S. Macphail and O. Stutman 4007 L3T4+ Cytotoxic T Lymphocytes Specific for Class I H-2 Antigens Are Activated in Primary Mixed Lymphocyte Reactions

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

H. J. Schluesener, R. A. Sobel, C. Linington, and H. L. Weiner 4016 A Monoclonal Antibody against a Myelin Oligodendrocyte Glycoprotein Induces Relapses and Denyelination in Central Nervous System Autoimmune Disease

L. Hao, Y. Wang, R. G. Gill, and K. J. Lafferty 4022 Role of the L3T4+ T Cell in Allograft Rejection


A. A. Ansari, T. K. Kihara, and D. G. Marash 4034 Immunochemical Studies of Lolium perenne (Rye Grass) Pollen Allergens, Lolp I, II, and III

L. F. Thompson, J. M. Ruedi, M. G. Low, and L. T. Clement 4042 Distribution of Ecto-5'-Nucleotidase on Subsets of Human T and B Lymphocytes as Detected by Indirect Immunofluorescence Using Goat Antibodies

T. B. Nutman, G. Delespesse, M. Sarfati, and D. J. Volkman 4049 T Cell-Derived IgE-Binding Factors. I. Cloned and Transformed T Cells Producing IgE-Binding Factors

M. Sarfati, T. B. Nutman, U. Suter, H. Hofstetter, and G. Delespesse 4055 T Cell-Derived IgE-Binding Factors. II. Purification and Characterization of IgE-Binding Factors Produced by Human T Cell Leukemia/Lymphoma Virus I-Transformed T Lymphocytes


J. L. Ceuppens and F. Van Vaeck 4067 Direct Demonstration of Binding of Anti-Leu 4 Antibody to the 40 kDa Fc Receptor on Monocytes as a Prerequisite for Anti-Leu 4-Induced T Cell Mitogenesis

C. R. Wyatt, N. S. Magnuson, and L. E. Perryman 4072 Defective Thymocyte Maturation in Horses with Severe Combined Immunodeficiency

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

T. Mandrup-Poulsen, K. Bendtzen, C. A. Dinarello, and J. Nerup 4077 Human Tumor Necrosis Factor Potentiates Human Interleukin 1-Mediated Rat Pancreatic β-Cell Cytotoxicity

G. B. Mills and C. May 4083 Binding of Interleukin 2 to Its 75-kDa Intermediate Affinity Receptor Is Sufficient to Activate Na+/H+ Exchange

F. J. Dumont and R. C. Boltz 4088 The Augmentation of Surface Ly-6A/E Molecules in Activated T Cells Is Mediated by Endogenous Interferon-γ

L. Chen, Y. Suzuki, and E. F. Wheelock 4096 Interferon-γ Synergizes with Tumor Necrosis Factor and with Interleukin 1 and Requires the Presence of both Monokines to Induce Antitumor Cytotoxic Activity in Macrophages

J. Ransom, M. Fischer, T. Masmann, T. Yokota, D. Deluca, J. Schumacher, and A. Zlotnik 4102 Interferon-γ Is Produced by Activated Immature Mouse Thymocytes and Inhibits the Interleukin 4-Induced Proliferation of Immature Thymocytes

J. Hu, C. Vaquero, S. Huet, A. Bernard, and G. Sterkers 4109 Interleukin 2 Up-Regulates Its Own Production

Continued on page 5
Continued from page 4

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Cloning and Expression of Hybridoma Growth Factor in <em>Escherichia coli</em></td>
<td>4116</td>
</tr>
<tr>
<td>Interaction among Hepatocyte-Stimulating Factors, Interleukin 1, and Glucocorticoids for Regulation of Acute Phase Plasma Proteins in Human Hepatoma (HepG2) Cells</td>
<td>4122</td>
</tr>
<tr>
<td>Glucocorticoids Inhibit Transcriptional and Post-Transcriptional Expression of Interleukin 1 in U937 Cells</td>
<td>4129</td>
</tr>
</tbody>
</table>

**IMMUNOCHEMISTRY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions of Immunoglobulin Heavy and Light Chains to Antibody Specificity for Lysozyme and Two Haptens</td>
<td>4135</td>
</tr>
<tr>
<td>C1 Dissociation: Spontaneous Generation in Human Serum of a Trimer Complex Containing C1 Inactivator, Activated C1r, and Zymogen C1s</td>
<td>4145</td>
</tr>
<tr>
<td>Properties of a Second Epitope of the Murine Fc Receptor for Aggregated IgG</td>
<td>4152</td>
</tr>
</tbody>
</table>

**IMMUNOPHARMACOLOGY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cholera Toxin and Pertussis Toxin Regulate the Fc Receptor-Mediated Phagocytic Response of Human Neutrophils in a Manner Analogous to Regulation by Monoclonal Antibody 1C2</td>
<td>4159</td>
</tr>
<tr>
<td>Prostaglandin E1 Inhibits N-Formyl-Methionyl-Leucyl-Phenylalanine-Mediated Depolarization Responses by Decreasing the Proportion of Responsive Cells without Affecting Chemotaxin-Induced Forward Light Scatter Changes</td>
<td>4167</td>
</tr>
<tr>
<td>In Vivo Inhibition of Neutrophil Function in the Rabbit Using Monoclonal Antibody to CD18</td>
<td>4174</td>
</tr>
<tr>
<td>Monoclonal Antibody NMS-1 Increases N-Formyl Chemotactic Peptide-Mediated Oxidative Burst Generation in Human Neutrophils</td>
<td>4178</td>
</tr>
<tr>
<td>The Effects of N-3 Polyunsaturated Fatty Acids on the Generation of Platelet Activating Factor-Acether by Human Monocytes</td>
<td>4186</td>
</tr>
</tbody>
</table>

**MICROBIAL IMMUNOLOGY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhibitory Activity of Interferons and Interleukin 1 on the Development of <em>Plasmodium falciparum</em> in Human Hepatocyte Cultures</td>
<td>4192</td>
</tr>
<tr>
<td>Frequency of Herpes Simplex Virus-Specific Murine Cytotoxic T Lymphocyte Precursors in Mitogen- and Antigen-Driven Primary In Vitro T Cell Responses</td>
<td>4196</td>
</tr>
<tr>
<td>Lysis of Cells Infected with Typhus Group Rickettsiae by a Human Cytotoxic T Cell Clone</td>
<td>4203</td>
</tr>
<tr>
<td>Antigen-Stimulated Lymphokines from Patients with Cutaneous Leishmaniasis Induce Monocyte Killing of <em>Leishmania major</em> Intracellular Amastigotes</td>
<td>4208</td>
</tr>
</tbody>
</table>

Continued on page 6
I. A. Quakyi, R. Carter, J. Rener, N. Kumar, M. F. Good, and L. H. Miller


E. A. Havell

4213 The 230-kDa Gamete Surface Protein of Plasmodium falciparum Is also a Target for Transmission-Blocking Antibodies

4218 Isolation and Characterization of a Protective Antigen for Adjuvant-Free Immunization against Schistosoma mansoni

4225 Production of Tumor Necrosis Factor during Murine Listeriosis

H. Dorai and G. P. Moore

4232 The Effect of Dihydrofolate Reductase-Mediated Gene Amplification on the Expression of Transfected Immunoglobulin Genes

S. H. Bridges, A. M. Kruisbeek, and D. L. Longo

G. Viale, F. Grassi, M. Pelaggi, R. Alzani, S. Ménard, S. Miotti, R. Buffa, A. Gini, and A. G. Siccardi

4242 Selective In Vivo Antitumor Effects of Monoclonal Anti-I-A Antibody on B Cell Lymphoma

4250 Antihuman Tumor Antibodies Induced in Mice and Rabbits by "Internal Image" Anti-Idiotypic Monoclonal Immunoglobulins

Author Index

4256

Ad Hoc Reviewers

4257

Volume 139 Author Index

4261

Volume 139 Subject Index

4270