Contents

COMMUNICATION

H. M. Johnson, J. K. Russell, and B. A. Torres 3053 Second Messenger Role of Arachidonic Acid and Its Metabolites in Interferon-γ Production

CELLULAR IMMUNOLOGY

J. R. Gnarra and V. H. Engelhard 3057 Derivation of Cytotoxic T Cell Lines that Express T Cell Receptor But Exhibit Reversible Loss of Stable Antigen Binding

T. D. Geppert and P. E. Lipsky 3063 Accessory Cell-T Cell Interactions Involved in Anti-CD3-Induces T4 and T8 Cell Proliferation: Analysis with Monoclonal Antibodies


K. P. Kane and W. R. Clark 3080 Class I MHC Antigens in the Generation and Expression of Promiscuous Cytotoxic Cell Function

S. A. McCarthy and A. Singer 3087 Recognition of MHC Class I Allodeterminants Regulates the Generation of MHC Class II-Specific CTL

V. C. Maino and M. E. Janszen 3093 Monoclonal Antibodies, L-35 and L-36, Define Novel T Cell Activation Antigens

T. Iwasaki, H. Fujiwara, T. Iwasaki, and G. M. Shearer 3100 Loss of Proliferative Capacity and T Cell Immune Development Potential by Bone Marrow from Mice Undergoing a Graft-vs-Host Reaction

F. T. Hakim and G. M. Shearer 3109 Abrogation of Hybrid Resistance to Bone Marrow Engraftment by Graft-vs-Host-Induced Immune Deficiency

J. I. Krieger, R. W. Chesnut, and H. M. Grey 3117 Capacity of B Cells to Function as Stimulators of a Primary Mixed Leukocyte Reaction

F. Uber and H. B. Dickler 3124 Cooperativity between B Lymphocyte Membrane Molecules: Independent Ligand Occupancy and Cross-Linking of Antigen Receptors and Fcy Receptors Down-Regulates B Lymphocyte Function

A. H. Lucas and S. M. Asser 3130 The Type-Specific Capsular Carbohydrate of Hemophilus influenzae B is a Potent Mitogen for Murine B Lymphocytes

R. M. DeShambo and K. A. Krollick 3135 Selective in Vitro Inhibition of an Antibody Response to Purified Acetylcholine Receptor by Using Anti-Idiotypic Antibodies Coupled to the A Chain of Ricin

M. Zanetti, D. Glotz, and J. Rogers 3140 Perturbation of the Autoimmune Network. II. Immunization with Isoologous Idiotype Induces Auto-Anti-Idiotypic Antibodies and Suppresses the Autoantibody Response Elicited by Antigen: A Serologic and Cellular Analysis

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

M. Peters, D. M. Walling, K. Kelly, G. L. Davis, J. G. Waggoner, and J. H. Hoofnagle 3147 Immunologic Effects of Interferon-α in Man: Treatment with Human Recombinant Interferon-α Suppresses In Vitro Immunoglobulin Production in Patients with Chronic Type B Hepatitis

M. Peters, J. L. Ambrus, A. Zheleznyak, D. Walling, and J. H. Hoofnagle 3153 Effect of Interferon-α on Immunoglobulin Synthesis by Human B Cells

Continued on page 4

THE JOURNAL OF IMMUNOLOGY (ISSN 0022-1767) is published twice each month by The American Association of Immunologists, 428 East Preston Street, Baltimore, MD 21202. Subscription rates $8150 ($8205 foreign); Institutions $8170 ($8225 foreign); students $3141 ($96 foreign); single copy $31 ($11 foreign), Indexed by Current Contents and Index Medicus. Second class postage paid at Baltimore, MD 21202 and at additional mailing offices. POSTMASTER: Send address changes to The Journal of Immunology at 428 East Preston Street, Baltimore, MD 21202. Copyright © 1986 by The American Association of Immunologists.
Continued from page 3

R. I. Fox, G. Pearson, and J. H. Vaughan
J. M. Lemire and W. O. Weigle
T. Nakagawa, N. Nakagawa, H. Goldstein, D. J. Volkman, and A. S. Fauci

Phenotypic and Functional Characteristics of Active Suppressor Cells against IFN-γ Production in PHA-Stimulated Cord Blood Lymphocytes

Detection of Epstein-Barr Virus-Associated Antigens and DNA in Salivary Gland Biopsies from Patients with Sjogren’s Syndrome

Passive Transfer of Experimental Allergic Encephalomyelitis by Myelin Basic Protein-Specific L3T4+ T Cell Clones Possessing Several Functions

Demonstration that Human B Cells Respond Differently to Interleukin 2 and B Cell Differentiation Factor Based on Their Stages of Maturation

Cytokines • Mediators • Regulatory Molecules

K. Matsushima, J. Yodoi, Y. Tagaya, and J. J. Oppenheim
P. J. Knudsen, C. A. Dinarello, and T. B. Strom
R. C. Howe, J. W. Lowenthal, and H. R. MacDonald
G. Antoni, R. Presentini, F. Ghiara, S. Censini, G. Vulpini, L. Villa, and D. Boraschi
K. H. Brooks and E. S. Vitetta

Down-Regulation of Interleukin 1 (IL 1) Receptor Expression by IL 1 and Fate of Internalized 125I-Labeled IL 1β in a Human Large Granular Lymphocyte Cell Line

Prostaglandins Posttranscriptionally Inhibit Monocyte Expression of Interleukin 1 Activity by Increasing Intracellular Cyclic Adenosine Monophosphate

Role of Interleukin 1 in Early T Cell Development: Lyt-2- L3T4+ Thymocytes Bind and Respond in Vitro to Recombinant IL 1

A Short Synthetic Peptide Fragment of Human Interleukin 1 with Immuno-ostimulatory But Not Inflammatory Activity

Recombinant IL 2 But Not Recombinant γ-Interferon Stimulates Both Proliferation and IgM Secretion in a Ly-1+ Clone of Neoplastic Murine B Cells (BCL1)

Induction of Colony-Stimulating Activity (CSA) by a Synthetic Muramyl Peptide (MDP): Synergism with LPS and Activity in C3H/HeJ Mice and in Endotoxin-Tolerized Mice

Binding and Mitogenic Properties of a Galactosyl-Specific Lectin from the Tunicate Didemnum candidum for Murine Thymocytes and Splenocytes

NK-Leukocyte Chemotactic Factor (NK-LCF): A Large Granular Lymphocyte (LGL) Granule-Associated Chemotactic Factor

Monocyte Procoagulant Inducing Factor: A Lymphokine Involved in the T Cell-Instructed Monocyte Procoagulant Response to Antigen

Immunochemistry

N. Dana, B. Styrt, J. D. Griffin, R. F. Todd III, M. S. Klemperer, and M. A. Arnaout
M. Umeda, I. Diego, and D. M. Marcus
M. J. Janusz, K. F. Austen, and J. K. Czop

Role of Ly-6 in Lymphocyte Activation. I. Characterization of a Monoclonal Antibody to a Non-Polymorphic Ly-6 Specificity

The Role of the 2H4 Molecule in the Generation of Suppressor Function in Con A-Activated T Cells

Characterization of an Anti-Peptide Antibody that Recognizes the Murine Analogue of the Human T Cell Antigen Receptor-T3 β-Chain

Two Functional Domains in the Phagocyte Membrane Glycoprotein M01 Identified with Monoclonal Antibodies

The Occurrence of Anti-3-Fucosyllactosamine Antibodies and Their Cross-reactive Idiotopes in Preimmune and Immune Mouse Sera

Isolation of Soluble Yeast β-Glucans that Inhibit Human Monocyte Phagocytosis Mediated by β-Glucan Receptors

Continued on page 5
## IMMUNOPHARMACOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. T. O'Flaherty, R. L. Wykle, J. Redman, M. Samuel, and M. Thomas</td>
<td>3277</td>
</tr>
<tr>
<td>D. J. Schrier and K. M. Imre</td>
<td>3284</td>
</tr>
<tr>
<td>T. Matsubara and M. Ziff</td>
<td>3295</td>
</tr>
<tr>
<td>J. A. Ledbetter, M. Parsons, P. J. Martin, J. A. Hansen, P. S. Rabinovitch, and C. H. June</td>
<td>3299</td>
</tr>
</tbody>
</table>

### Metabolism of 5-Hydroxyicosatetraenoate by Human Neutrophils: Production of a Novel ω-Oxidized Derivative

### The Effects of Adenosine Agonists on Human Neutrophil Function

### Enhancement of Human Eosinophil Cytotoxicity and Leukotriene Synthesis by Biosynthetic (Recombinant) Granulocyte-Macrophage Colony-Stimulating Factor

### Increased Superoxide Anion Release from Human Endothelial Cells in Response to Cytokines

### Antibody Binding to CD5 (Tp67) and Tp44 T Cell Surface Molecules: Effects on Cyclic Nucleotides, Cytoplasmic Free Calcium, and cAMP-Mediated Suppression

## MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Robert-Guroff, M. S. Reitz, Jr., W. G. Robey, and R. C. Gallo</td>
<td>3306</td>
</tr>
<tr>
<td>A. Weinberg, T. Y. Basham, and T. C. Merigan</td>
<td>3310</td>
</tr>
<tr>
<td>B. S. Bhogal, H. Y. Tse, E. B. Jacobson, and D. M. Schmatz</td>
<td>3318</td>
</tr>
<tr>
<td>J. J. Wirth and F. Kierszenbaum</td>
<td>3326</td>
</tr>
</tbody>
</table>

### In Vitro Generation of an HTLV-III Variant by Neutralizing Antibody

### Regulation of Guinea-Pig Immune Functions by Interleukin 2: Critical Role of Natural Killer Activity in Acute HSV-2 Genital Infection

### Chicken T Lymphocyte Clones with Specificity for *Eimeria tenella*. I. Generation and Functional Characterization

### Stimulatory Effects of Retinoic Acid on Macrophage Interaction with Blood Forms of *Trypanosoma cruzi*: Involvement of Transglutaminase Activity

## MOLECULAR BIOLOGY • MOLECULAR GENETICS

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. R. Blazar, C. C. B. Soderling, and D. A. Vallera</td>
<td>3338</td>
</tr>
<tr>
<td>D. Aragnol, B. Malissen, C. Schiff, M.-A. Piron, and Lee D. Leserman</td>
<td>3347</td>
</tr>
<tr>
<td>S. M. Zurawski, T. R. Mosmann, M. Benedik, and G. Zurawski</td>
<td>3354</td>
</tr>
</tbody>
</table>

### Regulation of Class II Gene Expression: Analysis in B Cell Stimulatory Factor 1-Inducible Murine Pre-B Cell Lines

### Assessment of Multi-Organ System Engraftment by Genotypic Typing Using Restriction Fragment-Length Polymorphisms and by Phenotypic Typing Using a Microcytotoxicity Assay

### Endocytosis of MHC Molecules by B Cell-B Lymphoma and B Cell-T Lymphoma Hybrids

### Alterations in the Amino-Terminal Third of Mouse Interleukin 2: Effects on Biological Activity and Immunoreactivity

## TUMOR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
</table>

### Potentiation of the in Vitro Cytotoxicity of Chlorambucil by Monoclonal Antibodies

### Analysis of Deficiencies in IFN-γ-Mediated Priming for Tumor Cytotoxicity in Peritoneal Macrophages from A/J Mice

## Announcements

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3372</td>
</tr>
</tbody>
</table>

## Author Index

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3373</td>
</tr>
</tbody>
</table>