Contents

COMMUNICATIONS

T. J. Waldschmidt, J. E. Layton, S. F. McFadden, J. W. Uhr, and E. S. Vitetta

865 sIgD and sIgD B Cells Responding to Thymus-Independent Antigens Have a Different Lymphokine Requirement

J. M. Jones

868 Complementation for Immune Responsiveness Involving Genetic Factors Not Linked to the RT1 of Rats

C. L. Sidman, L. D. Schultz, and R. Evans

870 A Serum-Derived Molecule from Autoimmune Viable Motheaten Mice Potentiates the Action of a B Cell Maturation Factor

CELLULAR IMMUNOLOGY

J. D. Levich, D. E. Parks, and W. O. Weigle

873 Tolerance Induction in Antigen-Specific Helper T Cell Clones and Lines In Vitro

Y. A. Mekori and S. J. Galli

879 Undiminished Immunologic Tolerance to Contact Sensitivity in Mast Cell-Deficient W/W' and SI/SI' Mice

E. T. Collins, E. D. Hershey, and D. C. Benjamin

886 Tolerance to Azobenzenearsonate: Idiotype-Specific Suppression, B Cell Dominance, and Clonal Elimination

R. Shimonkevitz, B. Luescher, J.-C. Cerottini, and H. R. MacDonald

892 Clonal Analysis of Cytolytic T Lymphocyte-Mediated Lysis of Target Cells with Inducible Antigen Expression: Correlation between Antigen Density and Requirement for Lyt-2/3 Function

J. R. Yannelli, L. C. Moore, and V. H. Engelhard

900 Multiple Epitopes on Human and Murine Cells Expressing HLA-B7 as Defined by Specific Murine Cytotoxic T Cell Clones

R. F. Siliciano, A. D. Keegan, R. Z. Dintzis, H. M. Dintzis, and H. S. Shin

906 The Interaction of Nominal Antigen with T Cell Antigen Receptors. I. Specific Binding of Multivalent Nominal Antigen to Cytolytic T Cell Clones

P. B. Hausman, D. H. Sherr, and M. E. Dorf

915 Mechanism Controlling the Genetic Restrictions of an NP-Specific Suppressor Factor that Inhibits B Cell Responses

P. Jardieu, T. Uede, and K. Ishizaka

922 Presence of an Antigen-Specific T Cell Subset that Forms IgE-Suppressive Factor and IgG-Suppressive Factor on Antigenic Stimulation

C. O. Elson and W. Ealding

930 Genetic Control of the Murine Immune Response to Cholera Toxin

P. M. Flood, B. Chue, and R. B. Whitaker

933 Information Transfer between T Cell Subsets Is Directed by I-J+ Antigen Nonspecific Molecules

Continued on page 4

Announcement of Changes in Publishing Schedule and Rates for The Journal of Immunology

As of January 1, 1986, the following changes will become effective:

The Journal of Immunology will publish twice each month, with 12 issues per volume and two volumes per year.

Subscriptions for domestic members of the American Association of Immunologists will be $75 per year; for foreign members, $875 per year plus postal charges of $55. Nonmember subscriptions for U.S. institutions will be $170 per year; foreign institutions, $170 plus postal charges of $55. Nonmember personal subscriptions will be $150 per year; nonmember personal foreign subscriptions will be $150 per year plus postal charges of $55.

Single copies will be $8 each. Foreign postage will be an additional $3 per single copy.

Page charges to authors will be $66 per page.
Suppression of Murine Lupus Autoantibodies to DNA by Administration of Muramyl Dipeptide and Syngeneic Anti-DNA IgG

Interaction of DNA with Connective Tissue Matrix Proteins Reveals Preferential Binding to Type V Collagen

In Vitro Production of Anti-Histone Antibodies by Spleen Cells from Young Autoantibody Negative NZB/NZW Mice

In Vivo Activation of Autoreactive Cytotoxic T Lymphocytes after Bone Marrow Transplantation: Evidence for the Prethymic Specificity of T Cells

Type II Collagen-Reactive T Cell Clones from Mice with Collagen-Induced Arthritis

Activation of Mouse Lymphocytes Inhibits Induction of Rapid Cell Death by X-Irradiation

The Wasted Mutant Mouse. I. An Animal Model of Secretory IgA Deficiency with Normal Serum IgA

Production of Interleukin 1 Activity by Normal Human Peripheral Blood B Lymphocytes

Sodium Periodate-Induced T Cell Mitogenesis: An Analysis of the Requirement for lα and IL 1

Natural Killer Activity in Cloned Cytotoxic T Lymphocytes: Regulation by Interleukin 2, Interferon, and Specific Antigen

The Role of Arachidonic Acid Metabolism in the Activities of Interleukin 1 and 2

Induction of IL 2 Receptor Expression and Cytotoxicity of Thymocytes by Stimulation with TCF

Interferon-γ Modulates HLA Class II antigen Expression on Cultured Human Thymic Epithelial Cells

Prostaglandin E2 Acts at Two Distinct Pathways of T Lymphocyte Activation: Inhibition of Interleukin 2 Production and Down-Regulation of Transferrin Receptor Expression

Selective Improvement of Thymus and Some T Cell Dysfunctions in NZB Mice by In Utero Thymulin Treatment

Long-Term Culture of Human Bone Marrow Macrophages: Macrophage Development Is Associated with the Production of a Granulomono poetic Enhancing Activity (GM-EA)

Activation of Rat and Human Alveolar Macrophage Intracellular Bactericidal Activity by a Preformed LCL Cytokine

Physicochemical and Functional Properties of Murine B Cell-Derived B Cell Growth Factor I (WEHI-231-BCGF-I)

Signal Requirements for Growth and Differentiation of Activated Murine B Lymphocytes

An Immunohchemical Study of the Combining Site Specificities of C57BL/6J Monoclonal Antibodies to α(1-6)-Linked Dextran B512

Alternative Mechanism of Protein A-Immunoglobulin Interaction: The V H -Associated Reactivity of a Monoclonal Human IgM

Igh Restriction of the Anti-α (1-3) Dextran Response: Polyclonal B Cell Activators Induce the Synthesis of Anti-α (1-3) Dextran Antibodies in Lymphocytes From Igha Mice Only
M. Zanetti, F.-T. Liu, J. Rogers, and D. H. Katz
S.-C. Luo and R. B. Bankert
D. W. Thomas, J. L. Schauster, M. D. Hoffman, and G. D. Wilner
E. P. Lillehoj, N. B. Myers, D. R. Lee, T. H. Hansen, and J. E. Coligan
C. C. Goodnow and R. L. Raison
T. Sone, K. Tsukamoto, K. Hirayama, Y. Nishimura, T. Tak enouchi, M. Aizawa, and T. Sasazuki
M. D. Lubeck, 2. Steplewski, F. Baglia, M. H. Klein, K. J. Dorrington, and H. Koprowski
A. M. Mercurio and P. W. Robbins
B. P. Randazzo, R. J. Dattwyler, A. P. Kaplan, and B. Ghebrehiwet
G. M. Hansch, D. Gemsa, and K. Resch
J. J. O'Shea, E. J. Brown, T. A. Gaither, T. Takahasai, and M. M. Frank

Continued from page 5

1245 Heavy and Light Chains of a Mouse Monoclonal Autoantibody Express the Same Idiotype
1252 Cross-Reactive Idiotype Family Observed in the Phthalate-Specific B Cell Repertoire of Adult BALB/c Mice: Diversity of IgM Compared with IgG Monoclonal Anti-Phthalate Antibodies
1259 Nonrandom Catabolism of Proteins in the Formation of Antigenic Peptide Fragments

Continued on page 7

IMMUNOPHARMACOLOGY

F. Shanahan, J. A. Denburg, J. Fox, J. Bienenstock, and D. Befus
C. K. Abrass, S. W. O'Connor, P. J. Scarpace, and I. B. Abrass
T. Fukuda, S. J. Ackerman, C. E. Reed, M. S. Peters, S. L. Dunnette, and G. J. Gleich
M. Rola-Pleszczynski
S. Mexmain, J. Cook, J.-C. Al digier, N. Guatde, and M. Rigaud
B. N. Cronstein, E. D Rosen stein, S. B. Kramer, G. Weis smann, and R. Hirschhorn
W. E. Fogler, R. Wade, D. E. Brundish, I. J. Fidler
M. Yazdanbakhsh, C. M. Eck man, and D. Roos

1331 Mast Cell Heterogeneity: Effects of Neuroenteric Peptides on Histamine Release
1338 Characterization of the \( \beta \)-Adrenergic Receptor of the Rat Peritoneal Macrophage
1342 Calcium Requirements for Increased Complement Receptor Expression During Neutrophil Activation
1349 Calcium Ionophore A23187 Causes Calcium-Dependent Cytolytic Degranulation in Human Eosinophils
1357 Differential Effects of Leukotriene B4 on T4* and T8* Lymphocyte Phenotype and Immunoregulatory Functions
1361 T lymphocyte Cyclic AMP and Cyclic GMP Response to Treatment with Metabolites Issued from the Lipoxygenase Pathway
1366 Adenosine: A Physiologic Modulator of Superoxide Anion Generation by Human Neutrophils: Adenosine Acts Via an A1 Receptor on Human Neutrophils
1372 Distribution and Fate of Free and Liposome-Encapsulated \([\text{3}|H]\)nor-Muramyl Dipeptide and \([\text{3}|H]\)Muramyl Tripeptide Phosphatidylethanolamine in Mice
1378 Characterization of the Interaction of Human Eosinophils and Neutrophils with Opsonized Particles
MICROBIAL IMMUNOLOGY


C. J. Hackett, J. L. Hurwitz, B. Dietzschold, and W. Gerhard

A. Yachie, G. Tosato, S. E. Straus, and R. M. Blaese


R. Hussain and E. A. Ottesen

J. B. Weiss and M. Strand


T. Lehner, A. Mehler, J. Avery, T. Jones, and J. Caldwell


The T Cell Response to the Glycoprotein D of the Herpes Simplex Virus: The Significance of Antigen Conformation

A Synthetic Decapeptide of Influenza Virus Hemagglutinin Elicits Helper T Cells with the Same Fine Recognition Specificities as Occur in Response to Whole Virus

Immunostimulation by Cytomegalovirus (CMV): Helper T Cell-Dependent Activation of Immunoglobulin Production In Vitro by Lymphocytes from CMV-Immune Donors

Abrogation of Anti-Pichinde Virus Cytotoxic T Cell Memory by Cyclophosphamide and Restoration by Co-infection or Interleukin 2

Theiler's Murine Encephalomyelitis Virus (TMEV)-Induced Demyelinating Disease in Mice Is Influenced by the H-2D Region: Correlation with TMEV-Specific Delayed-Type Hypersensitivity

IgE Responses in Human Filariasis. III. Specificities of IgE and IgG Antibodies Compared by Immunoblot Analysis

Characterization of Developmentally Regulated Epitopes of Schistosoma mansoni Egg Glycoprotein Antigens

Heat-Modifiable Outer Membrane Protein Carries an Antigen Specific for the Species Yersinia enterocolitica and Yersinia Pseudotuberculosis

The Helper and Suppressor Functions of Primate T Cells Elicited by a 185K Streptococcal Antigen, as Compared with the Helper Function Elicited by a 4K Streptococcal Antigen

Defective Cell-Mediated Immunity in Leprosy: Failure of T Cells from Lepromatous Leprosy Patients to Respond to Mycobacterium leprae Is Associated with Defective Expression of Interleukin 2 Receptors and Is not Reconstituted by Interleukin 2

MOLECULAR GENETICS • MOLECULAR BIOLOGY

M. J. Palmer, D. A. Buck, J. A. Frelinger, and P. J. Wettstein

A. Ben-Nun, E. Choi, K. R. McIntyre, S. A. Leeman, D. J. McKean, J. G. Seidman, and L. H. Glimcher

D. Yuan, E. A. Weiss, J. E. Layton, P. H. Krammer, and E. S. Vitetta

Polymorphic Class II Sequences Linked to the Rat Major Histocompatibility Complex (RTI) Homologous to Human DR and DQ Sequences

DNA-Mediated Transfer of Major Histocompatibility Class II 1-A^b and 1-A^bm12 Genes into B Lymphoma Cells: Molecular and Functional Analysis of Introduced Antigens

Activation of the y1 Gene by Lipopolysaccharide and T Cell-Derived Lymphokines Containing a B Cell Differentiation Factor for IgG1 (BCDFy)

TUMOR IMMUNOLOGY

G. Lavie, Z. Leib, and C. Servadio


J. C. Hiserodt, K. A. Laybourn, and J. Varani


The Mechanism of Human NK Cell-Mediated Cytotoxicity: Mode of Action of Surface-Associated Proteases in the Early Stages of the Lytic Reaction

Augmentation of NK Cell Activity in Tissue-Specific Sites by Liposomes Incorporating MTP-PE

Expression of a Laminin-Like Substance on the Surface of Murine Natural Killer (NK) Lymphocytes and Its Role in NK Recognition of Tumor Target Cells

Systemic Administration of Recombinant Interleukin 2 Stimulates In Vivo Lymphoid Cell Proliferation in Tissues

Continued on page 8
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1498</td>
<td>Amplification of Immune T Lymphocyte Function In Situ: The Identification of Active Components of the Immunologic Network during Tumor Rejection</td>
</tr>
<tr>
<td>1505</td>
<td>The Serologic Response to Meth A Sarcoma Vaccines after Cyclophosphamide Treatment Is Additionally Increased by Various Adjuvants</td>
</tr>
<tr>
<td>1510</td>
<td>The Role of Suppressor T Cells in BCNU-Mediated Rejection of a Syngeneic Tumor</td>
</tr>
<tr>
<td>1518</td>
<td>Cyclic AMP Induces Terminal Deoxynucleotidyl Transferase in Immature B Cell Leukemia Lines</td>
</tr>
<tr>
<td>1523</td>
<td>Monoclonal Antibodies against Human Myelomonocytic Cells: Detection of Certain Lineage-Specific Antigens on CFU-GM Progenitor Cells</td>
</tr>
<tr>
<td>1530</td>
<td>Human Immune Response to Multiple Injections of Murine Monoclonal IgG</td>
</tr>
</tbody>
</table>

**ERRATA**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1536</td>
<td>Immunochemical and Genetic Studies of Amb. t. V (Ra5G), an Ra5 Homologue from Giant Ragweed Pollen</td>
</tr>
<tr>
<td>1536</td>
<td>Antibodies to the Scrapie Protein Decorate Prion Rods</td>
</tr>
</tbody>
</table>

**Letter to the Editor**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1537</td>
<td></td>
</tr>
</tbody>
</table>

**Announcements**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1538</td>
<td></td>
</tr>
</tbody>
</table>

**Author Index**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1540</td>
<td></td>
</tr>
</tbody>
</table>