139 (7)

J Immunol 1987; 139:2123-2507; 
http://www.jimmunol.org/content/139/7.citation

This information is current as of April 17, 2017.

Subscription  Information about subscribing to The Journal of Immunology is online at: http://jimmunol.org/subscription

Permissions  Submit copyright permission requests at: http://www.aai.org/About/Publications/JI/copyright.html

Email Alerts  Receive free email-alerts when new articles cite this article. Sign up at: http://jimmunol.org/alerts

The Journal of Immunology is published twice each month by The American Association of Immunologists, Inc., 1451 Rockville Pike, Suite 650, Rockville, MD 20852 All rights reserved.
Print ISSN: 0022-1767 Online ISSN: 1550-6606.
Contents

CELLULAR IMMUNOLOGY

R. D. Stout, G. A. Schwarting, and J. Suttles

Evidence that Expression of Asialo-GM$_1$ May Be Associated with Cell Activation: Correlation of Asialo-GM$_1$ Expression with Increased Total Cellular RNA and Protein Content in Normal Thymocyte and Spleen Cell Populations

B. Gulwani, M. Maio, L. Imberti, R. J. Melamede, and S. Ferrone

Immunosuppressive Activity of T Cell Clones Generated from Human T Cells Stimulated with Autologous T$_{PHA}$ Cells

D. L. Thiele, J. A. Calomeni, and P. E. Lipsky

Leucyl-Leucine Methyl Ester Treatment of Donor Cells Permits Establishment of Immunocompetent Parent → F$_1$ Chimeras that Are Selectively Tolerant of Host Alloantigens

M. A. Shipp and E. L. Reinherz

Differential Expression of Nuclear Proto-Oncogenes in T Cells Triggered with Mitogenic and Nonmitogenic T3 and T11 Activation Signals

S. B. Pollack and C. Rosse

The Primary Role of Murine Bone Marrow in the Production of Natural Killer Cells: A Cytokinetic Study

P. T. H. Wang, M. Bigby, and M.-S. Sy

Selective Down Modulation of L3T4 Molecules on Murine Thymocytes by the Tumor Promoter, Phorbol 12-Myristate 13-Acetate

P. J. Wettstein and M. P. Comombo

Immunodominance in the T Cell Response to Multiple Non-H-2 Histocompatibility Antigens. IV. Partial Tissue Distribution and Mapping of Immunodominant Antigens

J. D. Mountz, J. Smith, C. M. Snapper, J. F. Mushinski, and F. D. Finkelman

Polyclonal Activation of the Murine Immune System by an Antibody to IgD. VIII. Stimulation of IgD Secretion

H. Yamamoto, S. Bitoh, and S. Fujimoto

Acquisition of an Anti-Idiotype Cytotoxic T Lymphocyte Repertoire in B Cell-Transferred or Tetraparental Bone Marrow Chimeric Mice

G. Fyfe, J. A. Cebra-Thomas, E. Mustain, J. M. Davie, C. D. Alley, and M. H. Nahm

Subpopulations of B Lymphocytes in Germinal Centers

S. Ezine, L. Jerabek, and I. Weissman

The Phenotype of Thymocytes Derived from a Single Clonogenic Precursor

R. C. Budd, M. Schreyer, G. C. Miescher, and H. R. MacDonald

T Cell Lineages in the Thymus of lpr/lpr Mice: Evidence for Parallel Pathways of Normal and Abnormal T Cell Development

K. M. Mohler and J. W. Streilein

Tolerance to Class II Major Histocompatibility Complex Molecules Is Maintained in the Presence of Endogenous Interleukin 2-Producing Tolerogen-Specific T Lymphocytes

L. Lefrancois

Expression of Carbohydrate Differentiation Antigens during Ontogeny of the Murine Thymus

A. E. Nel, I. Schabort, A. Rheeder, P. Bouic, and M. W. Wooten

Inhibition of Antibodies to CD3 Surface Antigen and Phytahemagglutinin-Mediated T Cellular Responses by Inhibiting Ca$^{2+}$/Phospholipid-Dependent Protein Kinase Activity with the Aid of 1-[5-Isoquinolinyl Sulfonyl]-2-Methylpiperazine Dihydrochloride

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

A. I. Levinson, N. F. Dalal, M. Haidar, L. Tar, and M. Orlow

Prominent IgM Rheumatoid Factor Production by Human Cord Blood Lymphocytes Stimulated In Vitro with Staphylococcus aureus Cowan I

M. D. Clayman, L. Michaud, and E. G. Neison

Murine Interstitial Nephritis. VI. Characterization of the B Cell Response in Anti-Tubular Basement Membrane Disease

J. A. Hill, F. Haimovici, and D. J. Anderson

Products of Activated Lymphocytes and Macrophages Inhibit Mouse Embryo Development In Vitro

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 $850 ($250 foreign); institutions $870 ($225 foreign); students $41 ($96 foreign); single copy $8 ($1 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 © 1987 by The American Association of Immunologists.
Continued from page 3

J. H. Eldridge, K. W. Beagley, and J. R. McGhee

2255 Immunoregulation in the Feyer’s Patch Microenvironment: Cellular Basis for the Enhanced Responses by the B Cells of X-Linked Immunodeficient CBA/N Mice

K. Ljunggren, B. Bottiger, G. Biberfeld, A. Karlson, E.-M. Fenyo, and M. Jondal

2263 Antibody-Dependent Cellular Cytotoxicity-Inducing Antibodies against Human Immunodeficiency Virus: Presence at Different Clinical Stages

R. B. Acres, P. J. Conlon, D. Y. Mochizuki, and B. Gallis

2268 Phosphorylation of the CD8 Antigen on Cytotoxic Human T Cells in Response to Phorbol Myristate Acetate or Antigen-Presenting B Cells

M. K. Nicholas, J. P. Antel, K. Stefansson, and B. G. W. Arnason

2275 Rejection of Fetal Neocortical Neural Transplants by H-2 Incompatible Mice

D. M. Klinman and A. D. Steinberg

2284 Similar In Vivo Expansion of B Cells from Normal DBA/2 and Autoimmune NZB Mice in xid Recipients

CYTOKINES • MEDIATORS • REGULATORY MOLECULES


2290 Effect of B Cell Stimulatory Factor 1 (Interleukin 4) on Fc, and Fc, Receptor Expression on Murine B Lymphocytes and B Cell Lines

B. S. Bochner, B. K. Rutledge, and R. P. Schleimer

2297 Interleukin 1 Production by Human Lung Tissue. I. Identification and Characterization

Y. Jacques, B. Le Mauff, F. Boeffard, A. Godard, and J.-P. Soulliou

2303 Interleukin 1 Production by Human Lung Tissue. II. Inhibition by Anti-Inflammatory Steroids

E. A. Kurt-Jones, W. Fiers, and J. S. Pober

2308 A Soluble Interleukin 2 Receptor Produced by a Normal Alloreactive Human T Cell Clone Binds Interleukin 2 with Low Affinity

C. D. Kelly, K. Welte, and H. W. Murray

2317 Membrane Interleukin 1 Induction on Human Endothelial Cells and Dermal Fibroblasts

E. S. Kiefferman, L. B. Lachman, R. D. Knowles, R. Snyderman, and G. J. Cianciolo

2325 Antigen-Induced Human Interferon-γ Production: Differential Dependence on Interleukin 2 and Its Receptor

S. A. Serrate, R. S. Schulof, L. Leonardiis, A. L. Goldstein, and M. B. Sztein

2329 A Synthetic Peptide Homologous to the Envelope Proteins of Retroviruses Inhibits Monocyte-Mediated Killing by Inactivating Interleukin 1


2338 Modulation of Natural Killer Cell Cytotoxic Activity, Lymphokine Production, and Interleukin 2 Receptor Expression by Thymic Hormones

V. M. Sanders, R. Fernandez-Botran, J. W. Uhr, and E. S. Vitetta

2344 Sequential Effect of a High Molecular Weight B Cell Growth Factor and of Interleukin 2 on Activated Human B Cells


2349 Interleukin 4 Enhances the Ability of Antigen-Specific B Cells to Form Conjugates with T Cells

Reconstitution of a Functional Interleukin 2 Receptor in a Nonlymphoid Cell

IMMUNOCHEMISTRY

M. Lévi-Strauss and M. Mallat

2361 Primary Cultures of Murine Astrocytes Produce C3 and Factor B, Two Components of the Alternative Pathway of Complement Activation

M. J. Glennie, H. M. McBride, A. T. Worth, and G. T. Stevenson

2367 Preparation and Performance of Bispecific F(ab')2 Antibody Containing Thioether-Linked Fab'γ Fragments

H.-H. Ku, W. L. Cleveland, and B. F. Emlanger

2376 Monoclonal Antibodies to Adenosine Receptor by an Auto-Anti-Idiotypic Approach

D. J. Panka and M. N. Margolies

2385 Complete Variable Region Sequences of Five Homologous High Affinity Anti-Digoxin Antibodies

Continued on page 5
### IMMUNOPHARMACOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. P. Nielson</td>
<td>2392</td>
<td>β-Adrenergic Modulation of the Polymorphonuclear Leukocyte Respiratory Burst Is Dependent upon the Mechanism of Cell Activation</td>
</tr>
<tr>
<td>A. El-Hag and R. A. Clark</td>
<td>2406</td>
<td>Immunosuppression by Activated Human Neutrophils: Dependence on the Myeloperoxidase System</td>
</tr>
<tr>
<td>J. M. Carlin, E. C. Borden, P. M. Sondel, and G. I. Byrne</td>
<td>2414</td>
<td>Biologic Response Modifier-Induced Indoleamine 2,3-Dioxygenase Activity in Human Peripheral Blood Mononuclear Cell Cultures</td>
</tr>
<tr>
<td>P. M. Rosoff, R. Walker, and L. Winberry</td>
<td>2419</td>
<td>Pertussis Toxin Triggers Rapid Second Messenger Production in Human T Lymphocytes</td>
</tr>
<tr>
<td>N. D. Stalke, R. P. Messner, and D. C. Zoschke</td>
<td>2424</td>
<td>Inhibition of Human T Lymphocyte E Rosette Formation by Neutrophils and Hydrogen Peroxide: Differential Sensitivity between Helper and Suppressor T Lymphocytes</td>
</tr>
<tr>
<td>E. WoldeMussie, H. Ali, T. Takaishi, R. P. Siraganian, and M. A. Byrne</td>
<td>2431</td>
<td>Identification of Variants of the Basophilic Leukemia (RBL-2H3) Cells that Have Defective Phosphoinositide Responses to Antigen and Stimulants of Guanosine 5'-Triphosphate Regulatory Proteins</td>
</tr>
</tbody>
</table>

### MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. V. Kadival, S. D. Chaparas, and D. Hussong</td>
<td>2447</td>
<td>Characterization of Serologic and Cell-Mediated Reactivity of a 38-kDa Antigen Isolated from <em>Mycobacterium tuberculosis</em></td>
</tr>
<tr>
<td>F. Y. Liew, M. T. Scott, D. S. Liu, and S. L. Croft</td>
<td>2452</td>
<td>Suppressive Substance Produced by T Cells from Mice Chronically Infected with <em>Trypanosoma cruzi</em>. I. Preferential Inhibition of the Induction of Delayed-Type Hypersensitivity</td>
</tr>
<tr>
<td>J. P. Dalton and M. Strand</td>
<td>2474</td>
<td><em>Schistosoma mansoni</em> Polypeptides Immunogenic in Mice Vaccinated with Radiation-Attenuated Cercariae</td>
</tr>
</tbody>
</table>

### MOLECULAR BIOLOGY • MOLECULAR GENETICS

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. F. Calman and B. M. Peterlin</td>
<td>2489</td>
<td>Mutant Human B Cell Lines Deficient in Class II Major Histocompatibility Complex Transcription</td>
</tr>
<tr>
<td>H. Dersimonian, R. S. Schwartz, K. J. Barrett, and B. D. Stollar</td>
<td>2496</td>
<td>Relationship of Human Variable Region Heavy Chain Germ-Line Genes to Genes Encoding Anti-DNA Autoantibodies</td>
</tr>
</tbody>
</table>

### TUMOR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Stein-Streilein, M. Zakarija, M. Papic, and J. M. McKenzie</td>
<td>2502</td>
<td>Hyperthyroxinemic Mice Have Reduced Natural Killer Cell Activity: Evidence for a Defective Trigger Mechanism</td>
</tr>
<tr>
<td>Announcements</td>
<td>2508</td>
<td></td>
</tr>
<tr>
<td>Author Index</td>
<td>2510</td>
<td></td>
</tr>
</tbody>
</table>