This information is current as of January 20, 2018.

Why The JI?
- **Rapid Reviews! 30 days** from submission to initial decision
- **No Triage!** Every submission reviewed by practicing scientists
- **Speedy Publication!** 4 weeks from acceptance to publication

*average

**Subscription**  Information about subscribing to *The Journal of Immunology* is online at: [http://jimmunol.org/subscription](http://jimmunol.org/subscription)

**Permissions**  Submit copyright permission requests at: [http://www.aai.org/About/Publications/JI/copyright.html](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](http://jimmunol.org/alerts)
Contents

Commentary

D. A. Carson

1 The Specificity of Anti-DNA Antibodies in Systemic Lupus Erythematosus

CELLULAR IMMUNOLOGY

D. Cassell and J. Forman

3 Two Roles for CD4 Cells in the Control of the Generation of Cytotoxic T Lymphocytes

B. Fleischer, R. Gerardy-Schahn, B. Metzroth, S. Carroll, D. Gerlach, and W. Köhler

11 An Evolutionary Conserved Mechanism of T Cell Activation by Microbial Toxins: Evidence for Different Affinities of T Cell Receptor-Toxin Interaction

D. K. Goroff, J. M. Holmes, H. Bazin, F. Nisol, and F. D. Finkeiman

18 Polyclonal Activation of the Murine Immune System by an Antibody to IgD. XI. Contribution of Membrane IgD Cross-Linking to the Generation of an in Vivo Polyclonal Antibody Response


26 Deficiency in Early Development of the Thymus-Dependent Cells in Irradiation Chimeras Attributable to Recipient’s Environment

O. Janssen, S. Wesselborg, B. Heckl-Ostreich, K. Pechhold, A. Bender, S. Schondelmaier, G. Moldenhauer, and D. Kabelitz

35 T Cell Receptor/CD3-Signaling Induces Death by Apoptosis in Human T Cell Receptor γ6+ T Cells

Y. Murakawa, W. Stober, and S. P. James

40 Monoclonal Antibody against the Human Peripheral Lymph Node Homing Receptor Homologue (Leu 8) Inhibits B Cell Differentiation but not B Cell Proliferation

F. Spertini, W. Stohl, N. Ramesh, C. Moody, and R. S. Geha

47 Induction of Human T Cell Proliferation by a Monoclonal Antibody to CD5

A. Yamada, T. Nikaido, Y. Nojima, S. F. Schlossman, and C. Morimoto

53 Activation of Human CD4 T Lymphocytes: Interaction of Fibronectin with VLA-5 Receptor on CD4 Cells Induces the AP-1 Transcription Factor

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

A. Amadori, R. Zamarchi, M. L. Veronese, M. Panozzo, A. Barelli, A. Borri, M. Sironi, F. Colotta, A. Mantovani, and L. Chieco-Bianchi

57 B Cell Activation during HIV-1 Infection. II. Cell-to-Cell Interactions and Cytokine Requirement

L. Borish, J. J. Mascali, and L. J. Rosenwasser

63 IgE-Dependent Cytokine Production by Human Peripheral Blood Mononuclear Phagocytes


68 The Molecular Configuration and Ultrastructural Locations of an IgG Fc Binding Site in Human Colonic Epithelium

Continued on page 4
Continued from page 3

C. Thivolet, A. Bendelac, P. Bedossa, J.-F. Bach, and C. Carnaud
J. Van de Water, A. A. Ansari, C. D. Surh, R. Coppel, T. Roche, H. Bonkovsky, M. Kaplan, and M. E. Gershwin
S. M. Wahl, J. B. Allen, R. Ohura, D. E. Chenoweth, and A. R. Hand
R. H. Whitham, D. N. Bourdette, G. A. Hashim, R. M. Herndon, R. C. Ilg, A. A. Vandenbark, and H. Offner

75 Characterization of a New, Potent, Immunopathogenic Epitope in S-Antigen that Elicits T Cells Expressing \( \beta \) and \( \alpha \)-Like Genes

81 Cocaine Potentiates HIV-1 Replication in Human Peripheral Blood Mononuclear Cell Cocultures: Involvement of Transforming Growth Factor-\( \beta \)

85 CD8+ T Cell Homing to the Pancreas in the Nonobese Diabetic Mouse Is CD4+ T Cell Dependent

89 Evidence for the Targeting by 2-Oxo-Dehydrogenase Enzymes In the T Cell Response of Primary Biliary Cirrhosis

95 IFN-\( \gamma \) Inhibits Inflammatory Cell Recruitment and the Evolution of Bacterial Cell Wall-Induced Arthritis

101 Lymphocytes from SJL/J Mice Immunized with Spinal Cord Respond Selectively to a Peptide of Proteolipid Protein and Transfer Relapsing Demyelinating Experimental Autoimmune Encephalomyelitis

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

M. Betz and B. S. Fox

A. Celada and R. A. Maki


R. C. Landis, M. L. Friedman, R. I. Fisher, and T. M. Ellis

E. Muñoz, A. M. Zubia, J. E. Sims, and B. T. Huber

J. Ruppert and J. H. Peters

H. Stötter, M. C. Custer, E. S. Bolton, L. Guedez, and M. T. Lotze

W. E. Vanderslice and J. L. Collins

108 Prostaglandin E\(_2\) Inhibits Production of Th1 Lymphokines but not of Th2 Lymphokines

114 IFN-\( \gamma \) Induces the Expression of the Genes for MHC Class II-A and Tumor Necrosis Factor through a Protein Kinase C-Independent Pathway

121 Aberrant Expression of Cytokine Genes in Peritoneal Macrophages from Mice Infected with LP-BM5 MuLV, a Murine Model of AIDS

128 Induction of Human Monocyte IL-1 mRNA and Secretion during Anti-CD3 Signal Transduction Pathways. I. Two Functional IL-1 Receptors are Expressed in T Cells

136 IL-1 Signal Transduction Pathways. I. Two Functional IL-1 Receptors are Expressed in T Cells

144 IL-6 and IL-1 Enhance the Accessory Activity of Human Blood Monocytes during Differentiation to Macrophages

150 IL-7 Induces Human Lymphokine-Activated Killer Cell Activity and Is Regulated by IL-4

156 Differences in the Tumor Necrosis Factor-\( \alpha \)-Mediated Lysis by Fixed Natural Cytotoxic Cells and Fixed Cytotoxic Macrophages

**IMMUNOCHEMISTRY**


J.-M. Le Doussal, E. Gautherot, M. Martin, J. Barbet, and M. Delaage

M. Z. Radic, M. A. Mascelli, J. Erikson, H. Shan, and M. Weigt


162 Probing the Topography of Free and Polymeric Ig-Bound Human Secretory Component with Monoclonal Antibodies

169 Enhanced In Vivo Targeting of an Asymmetric Bivalent Hapten to Double-Antigen-Positive Mouse B Cells with Monoclonal Antibody Conjugate Cocktails

176 Ig H and L Chain Contributions to Autoimmune Specificities

183 Biochemical Characterization and Tissue Distribution of Hamster Complement C1s

Continued on page 5
Continued from page 4

Y. Sei, K. Yoshimoto, T. McIntyre, P. Skolnick, and P. K. Arora
L. K. Sun, R. S. Liou, N. C. Sun, L. A. Gossett, C. Sun, F. M. Davis, D. W. MacGlashan, Jr., and T. W. Chang

188 Anti-Idiotype-Induced, Lipopolysaccharide-Specific Antibody Response to Pseudomonas aeruginosa. II. Isotype and Functional Activity of the Anti-Idiotype-Induced Antibodies

194 Morphine-Induced Thymic Hypoplasia Is Glucocorticoid-Dependent

199 Transfectomas Expressing Both Secreted and Membrane-Bound Forms of Chimeric IgE with Anti-Viral Specificity

206 Tyrosine Phosphorylation of the FcγRII(IIId16γ) Complex in Human Natural Killer Cells: Induction by Antibody-Dependent Cytotoxicity but Not by Natural Killing

IMMUNOPHARMACOLOGY

Y. Buchmüller-Rouiller and J. Mauel
L. Harvath, J. D. Robbins, A. A. Russell, and K. B. Seamon
S. Koyasu, Y. Tagaya, K. Sugle, S. Yonehara, J. Yodol, and I. Yahara
J. E. McCormack, J. Kappler, P. Marrack, and J. Y. Westcott
K. G. Vruwink, M. P. Fletcher, C. L. Keen, M. S. Golub, A. G. Hendrickx, and M. E. Gershwin

211 The Mast Cell-Committed Progenitor: In Vitro Generation of Committed Progenitors from Bone Marrow

217 Macrophage Activation for Intracellular Killing as Induced by Calcium Ionophore: Correlation with Biologic and Biochemical Events

224 cAMP and Human Neutrophil Chemotaxis: Elevation of cAMP Differentially Affects Chemotactic Responsiveness

233 The Expression of IL-2R α-Chain Is Enhanced by Activation of Adenylate Cyclase in Large Granular Lymphocytes and Natural Killer Cells

239 Production of Prostaglandin E2 and Prostaglycin by Thymic Nurse Cells in Culture

244 Moderate Zinc Deficiency in Rhesus Monkeys: An Intrinsic Defect of Neutrophil Chemotaxis Corrected by Zinc Repletion

250 Recombinant Soluble Human Complement Receptor Type 1 Inhibits Inflammation in the Reversed Passive Arthus Reaction in Rats

MICROBIAL IMMUNOLOGY

L. E. M. Bermudez and L. S. Young
S. Chung, S. Sinclair, J. Leibowitz, E. Skamene, L. S. Fung, and G. Levy
S. B. Corradin and J. Mauel
R. T. Gazzinelli, F. T. Hakim, S. Hieny, G. M. Shearer, and A. Sher
J. Gossmann, J. Löbler, and F. Lehmann-Grube

257 Equivalent Recognition of a Varicella-Zoster Virus Immediate Early Protein (IE62) and Glycoprotein I by Cytotoxic T-Lymphocytes of Either CD4+ or CD8+ Phenotype

265 Natural Killer Cell-Dependent Mycobacteriostatic and Mycobactericidal Activity in Human Macrophages

271 Cellular and Metabolic Requirements for Induction of Macrophage Procoagulant Activity by Murine Hepatitis Virus Strain 3 in Vitro

279 Phagocytosis of Leishmania Enhances Macrophage Activation by IFN-γ and Lipopolysaccharide

286 Synergistic Role of CD4+ and CD8+ T Lymphocytes in IFN-γ Production and Protective Immunity Induced by an Attenuated Toxoplasma gondii Vaccine

293 Entry of Antivirally Active T Lymphocytes into the Thymus of Virus-Infected Mice

Continued on page 6
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced HIV Replication in Macrophage Colony-Stimulating Factor-</td>
<td>298</td>
</tr>
<tr>
<td>Treated Monocytes</td>
<td></td>
</tr>
<tr>
<td>Analysis of the Permissive Association of a Malaria T Cell Epitope</td>
<td>307</td>
</tr>
<tr>
<td>with DR Molecules</td>
<td></td>
</tr>
<tr>
<td>The Role of Cytophilic IgG3 Antibody in T Cell-Mediated Resistance</td>
<td>316</td>
</tr>
<tr>
<td>to Infection with the Extracellular Bacterium, <em>Pseudomonas aeruginosa</em></td>
<td></td>
</tr>
<tr>
<td>Inhibition of Multicycle Influenza Virus Replication by Hybrid</td>
<td>321</td>
</tr>
<tr>
<td>Antibody-Directed Cytotoxic T Lymphocyte Lysis</td>
<td></td>
</tr>
<tr>
<td>The Primary B Cell Response to the O/ Core Region of Bacterial</td>
<td>327</td>
</tr>
<tr>
<td>Lipopolysaccharide is Restricted to the Ly-1 Lineage</td>
<td></td>
</tr>
<tr>
<td>Immunogenicity and Protective Effect against Oral Colonization by</td>
<td>332</td>
</tr>
<tr>
<td><em>Streptococcus mutans</em> of Synthetic Peptides of a Streptococcal</td>
<td></td>
</tr>
<tr>
<td>Surface Protein Antigen</td>
<td></td>
</tr>
<tr>
<td>Suppression of Human Monocyte Function against <em>Candida albicans</em> by</td>
<td>337</td>
</tr>
<tr>
<td>Autologous IL-2-Induced Lymphokine-Activated Killer Cells</td>
<td></td>
</tr>
</tbody>
</table>

**MOLECULAR BIOLOGY • MOLECULAR GENETICS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Shared ( \kappa ) Reciprocal Fragment and a High Frequency of</td>
<td>343</td>
</tr>
<tr>
<td>Secondary ( J_{\kappa 5} ) Rearrangements among Influenza</td>
<td></td>
</tr>
<tr>
<td>Hemagglutinin Specific B Cell Hybridomas</td>
<td></td>
</tr>
<tr>
<td>The Expression of the Ig H Chain Repertoire in Developing Bone</td>
<td>350</td>
</tr>
<tr>
<td>Marrow B Lineage Cells</td>
<td></td>
</tr>
<tr>
<td>Complete cDNA Sequence of Human Complement PRO-C5: Evidence of</td>
<td>362</td>
</tr>
<tr>
<td>Truncated Transcripts Derived from a Single Copy Gene</td>
<td></td>
</tr>
<tr>
<td>Structure of the Mouse ( \beta Fc \gamma ) Receptor II Gene</td>
<td>369</td>
</tr>
<tr>
<td>Induction of NF-κB during Monocyte Differentiation by HIV Type 1</td>
<td>377</td>
</tr>
<tr>
<td>Infection</td>
<td></td>
</tr>
</tbody>
</table>

**TUMOR IMMUNOLOGY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Natural Killer Cells Express VLA-4 and VLA-5, Which Mediate</td>
<td>384</td>
</tr>
<tr>
<td>Their Adhesion to Fibronectin</td>
<td></td>
</tr>
<tr>
<td>Cytolytic Lymphocytes Induce Both Apoptosis and Necrosis in Target</td>
<td>393</td>
</tr>
<tr>
<td>Cells</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Induction of NF-κB during Monocyte Differentiation by HIV Type 1</td>
<td>377</td>
</tr>
<tr>
<td>Infection</td>
<td></td>
</tr>
</tbody>
</table>

**Author Index**

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Gismondi, S. Marrone, M. J. Humphries, M. Piccoli, L. Frati, and A. Santoni</td>
<td>384</td>
</tr>
<tr>
<td>A. Zychlinsky, L. M. Zheng, C.-C. Liu, and J. D.-E Young</td>
<td>393</td>
</tr>
<tr>
<td>Letter to the Editor</td>
<td>401</td>
</tr>
<tr>
<td>Author Index</td>
<td>1</td>
</tr>
</tbody>
</table>