The information is current as of April 15, 2017.

146 (12)

*J Immunol* 1991; 146:4055-4433; ;
http://www.jimmunol.org/content/146/12.citation

---

**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
Contents

CELLULAR IMMUNOLOGY

M. Croft and S. L. Swain 4055 B Cell Response to Fresh and Effector T Helper Cells: Role of Cognate T-B Interaction and the Cytokines IL-2, IL-4, and IL-6
D. De Ruyscher, H. Sobis, M. Vandeputte, and M. Waer 4065 A Subset of Asialo GM1+ Cells Play a Protective Role in the Occurrence of Graft-versus-Host Disease in Mice
R. M. Dilosa, K. Maeda, A. Masuda, A. K. Szakal, and J. G. Tew 4071 Germinal Center B Cells and Antibody Production in the Bone Marrow
T. Hori, J. Cupp, N. Wrighton, F. Lee, and H. Spits 4078 Identification of a Novel Human Thymocyte Subset with a Phenotype of CD3+ CD4+ CD8αβ+; Possible Progeny of the CD3- CD4- CD8- Subset
S. Jayaraman, N. Mensi, D. R. Webb, and M. E. Dorf 4085 Involvement of Protein Kinase C in Competence Induction of Macrophages to Generate T Suppressor Cells
P. E. Korty, C. Brando, and E. M. Shevach 4092 CD59 Functions as a Signal-Transducing Molecule for Human T Cell Activation
P.-J. Linton, A. Rudie, and N. R. Klinman 4099 Tolerance Susceptibility of Newly Generating Memory B Cells
A. Risso, D. Smilovich, M. C. Capra, I. Baldissarro, G. Yan, A. Bargellesi, and M. E. Cosulich 4105 CD69 in Resting and Activated T Lymphocytes: Its Association with a GTP Binding Protein and Biochemical Requirements for Its Expression
R. G. Titus 4115 Colchicine Is a Potent Adjuvant for Eliciting T Cell Responses
V. Udhayakumar, L. Kumar, and B. Subbarao 4120 The Influence of Avidity on Signaling Murine B Lymphocytes with Monoclonal Anti-igM Antibodies: Effects on B Cell Proliferation versus Growth Inhibition (Tolerance) of an Immature B Cell Lymphoma

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

M. A. Cremer, K. Terato, J. M. Seyer, W. C. Watson, G. O. O'Hagan, A. S. Townes, and A. H. Kang 4130 Immunity to Type XI Collagen in Mice: Evidence that the α3(XI) Chain of Type XI Collagen and the α1(I1) Chain of Type II Collagen Share Arthritogenic Determinants and Induce Arthritis in DBA/1 Mice
W. F. Davidson, C. Calkins, A. Hugin, T. Giese, and K. L. Holmes 4138 Cytokine Secretion by C3H-lpr and -gld T Cells: Hypersecretion of IFN-γ and Tumor Necrosis Factor-α by Stimulated CD4+ T Cells
A. F. Kavanaugh, E. Lightfoot, P. E. Lipsky, and N. Oppenheimer-Marks 4149 Role of CD11/CD18 in Adhesion and Transendothelial Migration of T Cells: Analysis Utilizing CD18-Deficient T Cell Clones
C. Knobloch, S. F. Goldmann, and W. Friedlrich 4157 Limited T Cell Receptor Diversity of Transplacentally Acquired Maternal T Cells in Severe Combined Immunodeficiency
H. Offner, M. Vainiene, D. P. Gold, W. J. Morrison, R.-Y. Wang, G. A. Hashim, and A. A. Vandenbark 4165 Protection against Experimental Encephalomyelitis: Idiotype Autoregulation Induced by a Nonencephalitogenic T Cell Clone Expressing a Cross-Reactive T Cell Receptor V Gene
B. A. E. Vandenberckhove, J. F. Krowka, J. M. McCune, J. E. de Vries, H. Spits, and M. G. Roncarolo 4173 Clonal Analysis of the Peripheral T Cell Compartment of the SCID-hu Mouse
S. A. Weston and C. R. Parish 4180 Modification of Lymphocyte Migration by Mannans and Phosphomannans: Different Carbohydrate Structures Control Entry of Lymphocytes into Spleen and Lymph Nodes

Continued on page 4
S. Yoshino, L. G. Cleland, G. Mayrhofer, R. R. Brown, and J. H. Schwab  4187 Prevention of Chronic Erosive Streptococcal Cell Wall-Induced Arthritis in Rats by Treatment with a Monoclonal Antibody against the T Cell Antigen Receptor αβ

---

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

K. Akahane, R. B. Cohen, M. Bickel, and D. H. Pluznik  4190 IL-1α Induces Granulocyte-Macrophage Colony-Stimulating Factor Gene Expression in Murine B Lymphocyte Cell Lines via mRNA Stabilization

K. C. Allison, W. Strober, and G. R. Harriman  4197 Induction of IL-5 Receptors on Normal B Cells by Cross-Linking Surface Ig with Anti-Ig-Dextran

K. Dorshkind  4204 In Vivo Administration of Recombinant Granulocyte-Macrophage Colony-Stimulating Factor Results in a Reversible Inhibition of Primary B Lymphopoiesis

A. Gayá, O. de la Calle, J. Yague, E. Alsinet, M. Romero, V. Fabregat, J. Martorell, and J. Vives  4209 IL-4 Inhibits IL-2 Synthesis and IL-2-Induced Up-Regulation of IL-2Rα but not IL-2Rβ Chain in CD4⁺ Human T Cells

I. M. Katona, J. F. Urban, Jr., S. S. Kang, W. E. Paul, and D. Finkelman  4215 IL-4 Requirements for the Generation of Secondary in Vivo IgE Responses

A. Vazquez, M. T. Auffredou, P. Galanaud, and G. Leca  4222 Modulation of IL-2- and IL-4-Dependent Human B Cell Proliferation by Cyclic AMP

K. Zahed, M. F. Seldin, R. A. B. Ezekowitz, and A. S. Whitehead  4228 Mouse IL-1 Receptor Antagonist Protein: Molecular Characterization, Gene Mapping, and Expression of mRNA in Vitro and in Vivo

---

**IMMUNOCHEMISTRY**

A. Chonn, P. R. Cullis, and D. V. Devine  4234 The Role of Surface Charge in the Activation of the Classical and Alternative Pathways of Complement by Liposomes

R. W. Karr, P. Panina-Bordignon, W.-Y. Yu, and A. Lanzavecchia  4242 Antigen-Specific T Cells with Monogamous or Promiscuous Restriction Patterns Are Sensitive to Different HLA-DRβ Chain Substitutions

P. H. Kussie, J. M. Anchin, S. Subramaniam, J. A. Glase, and D. S. Linthicum  4248 Analysis of the Binding Site Architecture of Monoclonal Antibodies to Morphone by Using Competitive Ligand Binding and Molecular Modeling

C. Nordling, R. Holmdahl, and L. Klareskog  4258 A Monoclonal Anti-idiotypic Antibody with Rheumatoid Factor Activity Defines a Cross-Reactive Idiotope on Murine Anticollagen Antibodies

S. Rosen-Bronson, W.-Y. Yu, and R. W. Karr  4264 Polymorphic HLA-DR7β1 Chain Residues that Are Involved in T Cell Allo-recognition

V. Stephan, N. Guo, V. Ginsburg, and R. P. Siraganian  4271 Immunoprecipitation of Membrane Proteins from Rat Basophilic Leukemia Cells by the Antiganglioside Monoclonal Antibody AA4

L. S. Zalman, M. A. Brothers, and K. L. Strauss  4278 Inhibition of Cytolytic Lymphocytes by Homologous Restriction Factor: Lack of Species Restriction

---

**IMMUNOPHARMACOLOGY**

P. J. Brennan, S. H. Zigmond, A. D. Schreiber, E. R. Smith, and F. S. Southwick  4282 Binding of IgG Containing Immune Complexes to Human Neutrophil FcγRII and FcγRIII Induces Actin Polymerization by a Petussis Toxin-Insensitive Transduction Pathway

E. Onello, A. Traynor-Kaplan, L. Sklar, and R. Terkeltaub  4289 Mechanism of Neutrophil Activation by an Unopsonized Inflammatory Particulate: Monosodium Urate Crystals Induce Pertussis Toxin-Insensitive Hydrolysis of Phosphatidylinositol 4,5-Blphosphate

M. Zanetti, L. Litteri, G. Griffiths, R. Gennaro, and D. Romeo  4295 Stimulus-Induced Maturation of Probactenecins, Precursors of Neutrophil Antimicrobial Polypeptides

Continued on page 5
### MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Binder and T. M. Kündig</td>
<td>4301</td>
<td>Antiviral Protection by CD8+ versus CD4+ T Cells: CD8+ T Cells Correlating with Cytotoxic Activity in Vitro Are More Efficient in Antivaccinia Virus Protection Than CD4-Dependent IL</td>
</tr>
<tr>
<td>S. H. Pincus, R. L. Cole, E. M. Hersh, D. Lake, Y. Masuho, P. J. Durda, and J. McClure</td>
<td>4315</td>
<td>In Vitro Efficacy of Anti-HIV Immunotoxins Targeted by Various Antibodies to the Envelope Protein</td>
</tr>
<tr>
<td>M. R. Posner, T. Hideshima, T. Cannon, M. Mukherjee, K. H. Mayer, and R. A. Byrn</td>
<td>4325</td>
<td>An IgG Human Monoclonal Antibody that Reacts with HIV-1/GP120, Inhibits Virus Binding to Cells, and Neutralizes Infection</td>
</tr>
<tr>
<td>R. M. Poston and R. J. Kurlander</td>
<td>4333</td>
<td>Analysis of the Time Course of IFN-γ mRNA and Protein Production during Primary Murine Listeriosis: The Immune Phase of Bacterial Elimination Is Not Temporally Linked to IFN Production in Vivo</td>
</tr>
<tr>
<td>P. Vincendeau and S. Daulouede</td>
<td>4338</td>
<td>Macrophage Cytostatic Effect on Trypanosoma musculi Involves an L-Arginine-Dependent Mechanism</td>
</tr>
</tbody>
</table>

### MOLECULAR BIOLOGY • MOLECULAR GENETICS

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. L. Farber and D. W. Sears</td>
<td>4352</td>
<td>Rat CD16 is Defined by a Family of Class III Fcγ Receptors Requiring Co-Expression of Heteroprotein Subunits</td>
</tr>
<tr>
<td>H. S. Fox, B. L. Bond, and T. G. Parslow</td>
<td>4362</td>
<td>Estrogen Regulates the IFN-γ Promoter</td>
</tr>
<tr>
<td>U. Gyllensten, M. Sundvall, I. Ezcurra, and H. A. Ehrlich</td>
<td>4368</td>
<td>Genetic Diversity at Class II DRB Loci of the Primate MHC</td>
</tr>
<tr>
<td>N. J. K. Hole, N. Harindranath, G. O. Young-Cooper, R. Garcia, and R. G. Mage</td>
<td>4377</td>
<td>Identification of Enhancer Sequences 3′ of the Rabbit Ig κ L Chain Loci</td>
</tr>
<tr>
<td>V. Pascual, K. Victor, D. Lelsz, M. B. Speilerberg, T. J. Hamblin, K. M. Thompson, I. Randen, J. Natvig, J. D. Capra, and F. K. Stevenson</td>
<td>4385</td>
<td>Nucleotide Sequence Analysis of the V Regions of Two IgM cold Agglutinins: Evidence That the Vγ4-21 Gene Segment Is Responsible for the Major Cross-Reactive Idiotype</td>
</tr>
<tr>
<td>M. A. Robinson</td>
<td>4392</td>
<td>The Human T Cell Receptor β-Chain Gene Complex Contains at Least 57 Variable Gene Segments: Identification of Six Vβ Genes in Four New Gene Families</td>
</tr>
<tr>
<td>E. Stimac, S. Urieli-Shoval, S. Kempin, and D. Pious</td>
<td>4398</td>
<td>Defective HLA DRA X Box Binding in the Class II Transactive Transcription Factor Mutant 6.1.6 and in Cell Lines from Class II Immunodeficient Patients</td>
</tr>
<tr>
<td>C. B. Williams, E. P. Blankenhorn, K. Bird, G. Levinson, and G. A. Gutman</td>
<td>4406</td>
<td>Organization and Nucleotide Sequence of the Rat T Cell Receptor β-Chain Complex</td>
</tr>
</tbody>
</table>

### TUMOR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Pages</th>
<th>Title</th>
</tr>
</thead>
</table>

*Continued on page 6*
Continued from page 5


D. M. Ojcius, L. M. Zheng, E. C. Sphicas, A. Zychlinsky, and J. D. Young

Letter to the Editor 4421
Author Index 4427
Ad Hoc Reviewers 4427
Author Index to Volume 146 4433
Subject Index to Volume 146 4434

Molecular and Functional Analysis of Human Natural Killer Cell-Associated Neural Cell Adhesion Molecule (N-CAM/CAD56)

Subcellular Localization of Perforin and Serine Esterase in Lymphokine-Activated Killer Cells and Cytotoxic T Cells by Immunogold Labeling