



Explore what's possible with innovative
research tools

Discover the difference >



138 (5)

J Immunol 1987; 138:1319-1653; ;
<http://www.jimmunol.org/content/138/5.citation>

This information is current as
of June 20, 2021.

Why *The JI*? [Submit online.](#)

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

**average*

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

COMMUNICATIONS

- L. E. Sivak, M. R. Harris, C. Kindle, and S. E. Cullen 1319 Inhibition of Proteoglycan Synthesis Eliminates the Proteoglycan Form of Ia-Associated Invariant Chain and Depresses Antigen Presentation
- J. Imboden, C. Weyand, and J. Goronzy 1322 Antigen Recognition by a Human T Cell Clone Leads to Increases in Inositol Trisphosphate

CELLULAR IMMUNOLOGY

- S. J. Mentzer, B. R. Smith, J. A. Barbosa, M. A. V. Crimmins, S. H. Herrmann, and S. J. Burakoff 1325 CTL Adhesion and Antigen Recognition Are Discrete Steps in the Human CTL-Target Cell Interaction
- C. G. Brooks and M. Holscher 1331 Cell Surface Molecules Involved in NK Recognition of Cloned Cytotoxic T Lymphocytes
- A. M. Churilla and V. L. Bracciale 1338 Lack of IL 2-Dependent Proliferation Despite Significant Expression of High-Affinity IL 2 Receptor on Murine Cytolytic T Lymphocyte Clones Late after Antigenic Stimulation
- B. Fleischer 1346 A Novel Pathway of Human T Cell Activation via a 103 kD T Cell Activation Antigen
- C. M. Weyand, J. Goronzy, and C. G. Fathman 1351 Modulation of CD4 by Antigenic Activation
- M. Moser, T. Mizuochi, S. O. Sharrow, A. Singer, and G. M. Shearer 1355 Graft-Vs-Host Reaction Limited to a Class II MHC Difference Results in a Selective Deficiency in L3T4⁺ But Not in Ly-T-2⁺ T Helper Cell Function
- J. J. Kenny, G. Guelde, C. Hansen, and J. J. Mond 1363 Synergistic Effects of the *xid* Gene in X Chromosome Congenic Mice. I. Inability of C3.CBA/N Mice to Respond to Thymus-Dependent Antigens in Adoptive Transfer Assays

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 \$150 (\$205 foreign); institutions \$170 (\$225 foreign); students \$41 (\$96 foreign); single copy \$8 (\$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.

EDITORIAL OFFICE CHANGE

Beginning April 13, 1987, all new manuscripts will be sent to the new Editor-in-Chief:

Dr. Ethan Shevach
The American Association of Immunologists
9650 Rockville Pike
Bethesda, MD 20814

Manuscripts, correspondence, and matters relating to manuscripts submitted to The Journal of Immunology *prior to April 13, 1987* will continue to be processed in the San Diego editorial office:

Dr. Joseph Feldman
The Journal of Immunology
3770 Tansy Street
San Diego, CA 92121

Continued from page 3

- B. S. Zwilling, L. Vespa, and M. Massie 1372 Regulation of I-A Expression by Murine Peritoneal Macrophages: Differences Linked to the Bcg Gene
- D. Rubinstein, A. K. Roska, and P. E. Lipsky 1377 Antigen Presentation by Liver Sinusoidal Lining Cells after Antigen Exposure in Vivo
- H. Kashiwa, S. C. Wright, and B. Bonavida 1383 Regulation of B Cell Maturation and Differentiation. I. Suppression of Pokeweed Mitogen-Induced B Cell Differentiation by Tumor Necrosis Factor (TNF)

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- J. L. Nelson, F. A. Nardella, I. R. Oppliger, and M. Mannik 1391 Rheumatoid Factors from Patients with Rheumatoid Arthritis Possess Private Repertoires of Idiotypes
- U. I. H. Dahlgren, S. Ahlstedt, and L. Å. Hanson 1397 The Localization of the Antibody Response in Milk or Bile Depends on the Nature of the Antigen
- M. E. Conley, M. A. Chan, and N. H. Sigal 1403 In Vitro Regulation of IgA Subclass Production. III. Selective Transformation of IGA1 Producing Cells by Epstein-Barr Virus
- S. C. A. Adeniyi-Jones and K. Ozato 1408 Transfer of Antibodies Directed to Paternal Major Histocompatibility Class I Antigens from Pregnant Mice to the Developing Fetus
- C. G. McAllister, B. Wiggert, G. J. Chader, T. Kuwabara, and I. Gery 1416 Uveitogenic Potential of Lymphocytes Sensitized to Interphotoreceptor Retinoid-Binding Protein
- C. D. Surh, M. E. Gershwin, and A. Ahmed 1421 A Peripheral and Central T Cell Antigen Recognized by a Monoclonal Thymocytotoxic Autoantibody from New Zealand Black Mice
- R. W. Melvold, D. M. Jokinen, R. L. Knobler, and H. L. Lip-ton 1429 Variations in Genetic Control of Susceptibility to Theiler's Murine Encephalomyelitis Virus (TMEV)-Induced Demyelinating Disease. I. Differences between Susceptible SJL/J and Resistant BALB/c Strains Map near the T Cell β -Chain Constant Gene on Chromosome 6
- L. L. Perry and M. E. Barzaga 1434 Kinetics Specificity of T and B Cell Responses in Relapsing Experimental Allergic Encephalomyelitis
- C. Schmitt, K. Dellagi, E. Mihaesco, and J.-C. Brouet 1442 Detection of Cross-Reactive Determinants Shared by Human Monoclonal IgM Reacting with Myelin-Associated Glycoprotein

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- P. E. Auron, S. J. C. Warner, A. C. Webb, J. G. Cannon, H. A. Bernheim, K. J. P. W. McAdam, L. J. Rosenwasser, G. LoPreste, S. F. Mucci, and C. A. Dinarello 1447 Studies on the Molecular Nature of Human Interleukin 1
- T. Schwarz, A. Urbanska, F. Gschnait, and T. A. Luger 1457 UV-Irradiated Epidermal Cells Produce a Specific Inhibitor of Interleukin 1 Activity
- P. Stashenko, F. E. Dewhirst, W. J. Peros, R. L. Kent, and J. M. Ago 1464 Synergistic Interactions between Interleukin 1, Tumor Necrosis Factor, and Lymphotoxin in Bone Resorption
- W. J. Ming, L. Bersani, and A. Mantovani 1469 Tumor Necrosis Factor Is Chemotactic for Monocytes and Polymorphonuclear Leukocytes
- L. Borish and R. E. Rocklin 1475 Effects of Leukocyte Inhibitory Factor (LIF) on Neutrophil Phagocytosis and Bactericidal Activity
- L. Borish and R. Rocklin 1480 Effects of Leukocyte Inhibitory Factor (LIF) on Neutrophil Mediated Antibody-Dependent Cellular Cytotoxicity
- A. Kumar, J.-L. Moreau, D. Baran, and J. Thèze 1485 Evidence for Negative Regulation of T Cell Growth by Low Affinity Interleukin 2 Receptors
- P. Jardieu, M. Akasaki, and K. Ishizaka 1494 Carrier-Specific Suppression of Antibody Responses by Antigen-Specific Glycosylation-Inhibiting Factors

Continued on page 5

IMMUNOCHEMISTRY

- | | | |
|--|------|---|
| M. B. Brenner, J. McLean, H. Scheft, R. A. Warnke, N. Jones, and J. L. Strominger | 1502 | Characterization and Expression of the Human $\alpha\beta$ T Cell Receptor by Using a Framework Monoclonal Antibody |
| C. Clayberger, A. M. Krensky, B. W. McIntyre, T. D. Koller, P. Parham, F. Brodsky, D. J. Linn, and E. L. Evans | 1510 | Identification and Characterization of Two Novel Lymphocyte Function Associated Antigens, L24 and L25 |
| A. Davidson, J.-L. Preud'homme, A. Solomon, M. Y. Chang, S. Beede, and B. Diamond | 1515 | Idiotypic Analysis of Myeloma Proteins: Anti-DNA Activity of Monoclonal Immunoglobulins Bearing an SLE Idiotype Is More Common in IgG than IgM Antibodies |
| L. H. Glimcher, B. S. Polla, A. Poljak, C. C. Morton, and D. J. McKean | 1519 | Murine Class II (Ia) Molecules Associate with Human Invariant Chain |
| P. O. Livingston, M. J. Calves, and E. J. Natoli, Jr. | 1524 | Approaches to Augmenting the Immunogenicity of the Ganglioside GM2 in Mice: Purified GM2 Is Superior to Whole Cells |
| S.-H. Kim, D. F. Carney, C. H. Hammer, and M. L. Shin | 1530 | Nucleated Cell Killing by Complement: Effects of C5b-9 Channel Size and Extracellular Ca^{2+} on the Lytic Process |
| E. I. B. Peerschke and B. Ghebrehiwet | 1537 | Human Blood Platelets Possess Specific Binding Sites for C1q |

IMMUNOPHARMACOLOGY

- | | | |
|---|------|---|
| J. E. Preiss, R. M. Bell, and J. E. Nidel | 1542 | Diacylglycerol Mass Measurements in Stimulated HL-60 Phagocytes |
| T. D. Bigby and M. J. Holtzman | 1546 | Enhanced 5-Lipoxygenase Activity in Lung Macrophages Compared to Monocytes from Normal Subjects |
| P. A. Johnston, M. M. Jansen, S. D. Somers, D. O. Adams, and T. A. Hamilton | 1551 | Maleyl-BSA and Furoïdan Induce Expression of a Set of Early Proteins in Murine Mononuclear Phagocytes |
| C. S. Ramesha and W. C. Pickett | 1559 | Species-Specific Variations in the Molecular Heterogeneity of the Platelet-Activating Factor |
| F. C. Mohr and C. Fewtrell | 1564 | IgE Receptor-Mediated Depolarization of Rat Basophilic Leukemia Cells Measured with the Fluorescent Probe <i>Bis-Oxonol</i> |

MICROBIAL IMMUNOLOGY

- | | | |
|---|------|---|
| D. A. Harn, J. J. Quinn, C. M. Cianci, and A. I. Ko | 1571 | Evidence That a Protective Membrane Epitope Is Involved in Early but Not Late Phase Immunity in <i>Schistosoma mansoni</i> |
| D. J. Wyler, H. P. Ehrlich, A. E. Postletwaite, R. Raghaw, and M. M. Murphy | 1581 | Fibroblast Stimulation in Schistosomiasis. VII. Egg Granulomas Secrete Factors That Stimulate Collagen and Fibronectin Synthesis |
| L. P. Kahl and D. McMahon-Pratt | 1587 | Structural and Antigenic Characterization of a Species- and Promastigote-Specific <i>Leishmania mexicana amazonensis</i> Membrane Protein |
| S. G. Reed, R. Badaro, and R. M. C. Lloyd | 1596 | Identification of Specific and Cross-Reactive Antigens of <i>Leishmania donovani chagasi</i> by Human Infection Sera |
| W. R. Green | 1602 | Induction of Anti-AKR/Gross Virus Cytolytic T Lymphocytes in AKR.H-2 ^b : Fv-1 ^b Congenic Mice: Age-Dependent Conversion to a Nonresponder Phenotype |

Continued on page 6

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- | | | |
|---|------|---|
| D. Primi, A.-M. Drapier, and P.-A. Cazenave | 1607 | Highly Preferential V _H -V _L Pairing in Normal B Cells Results in Antigen-Independent Selection of the Available Repertoire |
| M. Kaartinen and O. Mäkelä | 1613 | Functional Analogues of the V _K Ox1 Gene in Different Strains of Mice: Evolutionary Conservation but Diversity Based on V-J Joining |
| M. Uppenkamp, S. Pittaluga, E. H. Lipford, and J. Cossman | 1618 | Limited Diversity and Selection of Rearranged γ Genes in Polyclonal T Cells |
| M. Komatsu, E. Lamoyi, and R. G. Mage | 1621 | Genomic DNA Encoding Rabbit T Cell Receptor β -Chains: Isotypes and Allotypes of C β |

TUMOR IMMUNOLOGY

- | | | |
|--|------|--|
| R. J. van de Griend, W. J. M. Tax, B. A. van Krimpen, R. J. Vreugdenhil, C. P. M. Rontelap, and R. L. H. Bolhuis | 1627 | Lysis of Tumor Cells by CD3 ⁺ 4 ⁻ 8 ⁻ 16 ⁺ T Cell Receptor $\alpha\beta$ ⁻ Clones, Regulated via CD3 and CD16 Activation Sites, Recombinant Interleukin 2, and Interferon β |
| R. Heicappell, S. Naito, Y. Ichinose, A. A. Creasey, L. S. Lin, and I. J. Fidler | 1634 | Cytostatic and Cytolytic Effects of Human Recombinant Tumor Necrosis Factor on Human Renal Cell Carcinoma Cell Lines Derived from a Single Surgical Specimen |
| P. Q. Patek, Y. Lin, and J. L. Collins | 1641 | Natural Cytotoxic Cells and Tumor Necrosis Factor Activate Similar Lytic Mechanisms |
| Z. K. Ballas, W. Rasmussen, and J. K. Van Otegham | 1647 | Lymphokine-Activated Killer (LAK) Cells. II. Delineation of Distinct Murine LAK-Precursor Subpopulations |
| Letters to the Editor | 1653 | |
| Announcements | 1654 | |
| Author Index | 1656 | |

EDITORIAL OFFICE CHANGE

Beginning April 13, 1987, all new manuscripts will be sent to the new Editor-in-Chief:

Dr. Ethan Shevach
The American Association of Immunologists
9650 Rockville Pike
Bethesda, MD 20814

Manuscripts, correspondence, and matters relating to manuscripts submitted to The Journal of Immunology prior to April 13, 1987 will continue to be processed in the San Diego editorial office:

Dr. Joseph Feldman
The Journal of Immunology
3770 Tansy Street
San Diego, CA 92121