



Make your **mark.**

Discover reagents that make
your research stand out.

DISCOVER HOW



151 (7)

J Immunol 1993; 151:3407-3934; ;
<http://www.jimmunol.org/content/151/7.citation>

This information is current as
of June 27, 2022.

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.



The Journal of Immunology

Contents

Volume 151 • Number 7 • October 1, 1993

Cellular Immunology and Immune Regulation

- 3407 Intracellular Transport of Class I MHC Molecules in Antigen Processing Mutant Cell Lines
Karen S. Anderson, Jeff Alexander, Maria Wei, and Peter Cresswell
- 3420 Stimulation of IL-2-Activated Natural Killer Cells Through the Kp43 Surface Antigen Up-Regulates TNF- α Production Involving the LFA-1 Integrin
José Aramburu, María A. Balboa, Antonio Rodríguez, Ignacio Melero, Miguel Alonso, José Luis Alonso, and Miguel López-Botet
- 3430 Deficient Antigen Presentation by Langerhans Cells from Athymic (nu/nu) Mice: Restoration with Thymic Transplantation or Administration of Cytokines
Stephen Grabbe, Richard L. Gallo, Ann Lindgren, and Richard D. Granstein
- 3440 Regulation of Hapten-Specific Memory IgE Responses Induced in Vitro: Requirement for both Thy-1⁺ AsGM1⁺ and Thy-1⁺ AsGM1⁻ Cells and for IFN- α and IL-4
Christina A. Herrick, John A. Carucci, Gary I. Kleiner, and Helen G. Durkin
- 3450 Selection of the T Cell Receptor Repertoire in *Lpr* Mice
Lynne R. Herron, Robert A. Eisenberg, Ellen Roper, Vellalore N. Kakkanaiah, Philip L. Cohen, and Brian L. Kotzin
- 3460 Combination IL-2 and IL-4 Reduces Glucocorticoid Receptor-Binding Affinity and T Cell Response to Glucocorticoids
Jeffrey C. Kam, Stanley J. Szefer, Wendy Surs, Ellen R. Sher, Donald Y. M. Leung
- 3467 Increased Sensitivity to TNF-Mediated Cytotoxicity of BL6 Melanoma Cells After H-2K Gene Transfection
Misoon Kim, Ronald Herberman, and Elieser Gorelik
- 3478 Regulation of C γ Subclass Germ-line Transcripts in Human Peripheral Blood B Cells
Atsushi Kitani and Warren Strober
- 3489 Characterization of CTLA-4 Structure and Expression on Human T Cells
Tullia Lindsten, Kelvin P. Lee, Estelle S. Harris, Bronislawa Petryniak, Nancy Craighead, Pamela J. Reynolds, David B. Lombard, Gordon J. Freeman, Lee M. Nadler, Gary S. Gray, Craig B. Thompson, and Carl H. June
- 3500 Murine T Helper Cell-2 Lymphocytes Express Type I and Type II IL-1 Receptors, but Only the Type I Receptor Mediates Costimulatory Activity
David J. McKean, Raymond P. Podzorski, Michael P. Bell, Allan E. Nilson, Catherine J. Huntoon, Jennifer Slack, Steven K. Dower, and John Sims
- 3511 Pathway of Signal Delivery to Murine Thymocytes Triggered by Co-Crosslinking CD3 and Thy-1 for Cellular DNA Fragmentation and Growth Inhibition
Izumi Nakashima, Mei-Yi Pu, Michinari Hamaguchi, Takashi Iwamoto, S.M. Jamshedur Rahman, Yue-Hua Zhang, Masashi Kato, Kozo Ohkusu, Yoshiaki Katano, Tomoaki Yoshida, Yasuhiro Koga, Ken-Ichi Isobe, and Fumihiko Nagase

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 \$170 (\$260 foreign); institutions \$300 (\$390 foreign); single copy \$10 (\$15 foreign). Air Printed Matter rates are available on request from Customer Service, 428 E. Preston St., Baltimore, MD 21202-3993. Indexed by *Current Contents* and *Index Medicus*. Second class postage paid at Baltimore, MD 21202 and at additional mailing offices. Country of origin USA. Printed on acid-free paper which can be recycled. Postmaster: Send address changes to The Journal of Immunology, 428 East Preston Street, Baltimore, MD 21202. Copyright © 1993 by The American Association of Immunologists.

- 3521 Regulation of Apoptosis In Vitro in Mature Murine Spleen T Cells
Carlos E. Perandones, Vivian A. Illera, David Peckham, Laura L. Stunz, and Robert F. Ashman
- 3530 Functional and Phenotypic Analysis of Thymocytes in SCID Mice: Evidence for Functional Response Transitions Before and After the SCID Arrest Point
Ellen V. Rothenberg, Dan Chen, and Rochelle A. Diamond
- 3547 Apoptosis of Activated CD8⁺/CD57⁺ T Cells Is Induced by Some Combinations of Anti-CD2 mAb
Matthieu Rouleau, Alain Bernard, Olivier Lantz, Jean-Paul Vernant, Bernard Charpentier, and Anna Senik
- 3557 Studies of the Adjuvant-Independent Antibody Response to Immunotargeting: Target Structure Dependence, Isotype Distribution, and Induction of Long Term Memory
Danna L. Skea and Brian H. Barber

Molecular and Structural Immunology

- 3569 Differential Role of Conserved and Polymorphic Residues of the Binding Groove of MHC Class I Molecules in the Selection of Peptides
Jean-Pierre Abastado, Armanda Casrouge, and Philippe Kourilsky
- 3576 Processing of Endogenously Synthesized Hen Egg-White Lysozyme Retained in the Endoplasmic Reticulum or in Secretory Form Gives Rise to a Similar but not Identical Set of Epitopes Recognized by Class II-Restricted T Cells
By Luciano Adorini, Jean-Charles Guéry, Serge Fuchs, Vianney Ortiz-Navarrete, Günter J. Hämmerling, and Frank Momburg
- 3587 Heavy Chain Joining Region Segments of the Channel Catfish: Genomic Organization and Phylogenetic Implications
J. Russell Hayman, Seyed H. Ghaffari, and Craig J. Lobb
- 3597 V-Region-Mediated Binding of Human Ig by Protein A
Saleh Ibrahim, Ilkka Seppälä, and Olli Mäkelä
- 3604 Structural Analysis of the V_H-D-J_H Segments of Human Polyreactive IgG mAb: Evidence for Somatic Selection
Hideyuki Ikematsu, Marion T. Kasaian, Edward W. Schettino, and Paolo Casali
- 3617 An Activation-Responsive Element in the Murine IL-4 Gene Is the Site of an Inducible DNA-Protein Interaction
David Tara, Deborah L. Weiss, and Melissa A. Brown
- 3627 Characterization of the Insulin A-Chain Major Immunogenic Determinant Presented by MHC Class II I-A Molecules
Douglas B. Williams, Jim Ferguson, Jean Gariépy, Don McKay, Yen-Tung Teng, Shinji Iwasaki, and Nobumichi Hozumi
- 3638 Cellular Distribution of HLA-G mRNA in Transgenic Mouse Placentas
Krishna K. Yelavarthi, Cynthia M. Schmidt, Robert G. Ehlenfeldt, Harry T. Orr, and Joan S. Hunt

Host Defense

- 3646 CD45-Negative Mutants of a Rat Natural Killer Cell Line Fail to Lyse Tumor Target Cells
Gregory M. Bell, Gail M. Dethloff, and John B. Imboden

- 3654 Endogenous IL-1 Receptor Antagonist Protein (IRAP) Regulates Schistosome Egg Granuloma Formation and the Regional Lymphoid Response
S. W. Chensue, M. Bienkowski, T. E. Eessalu, K. S. Warmington, S. D. Hershey, N. W. Lukacs, and S. L. Kunkel
- 3663 Pulmonary T Helper Lymphocytes Are CD44, CD45RB⁻ Effector/Memory Cells in Mice Vaccinated with Attenuated Cercariae of *Schistosoma mansoni*
Patricia S. Coulson and R. Alan Wilson
- 3672 Acute Cerebral Toxoplasmosis is Induced by In Vivo Neutralization of TNF- α and Correlates with the Down-Regulated Expression of Inducible Nitric Oxide Synthase and Other Markers of Macrophage Activation
Ricardo T. Gazzinelli, Isam Eltoun, Thomas A. Wynn, and Alan Sher
- 3682 IL-6 Down-Modulates the Cytokine-Enhanced Antileishmanial Activity in Human Macrophages
Dimitrios E. Hatzigeorgiou, Suhui He, Jeremy Sobel, Kenneth H. Grabstein, Alice Hafner, and John L. Ho
- 3693 Cytotoxic T Cells from Ovarian Malignant Tumors Can Recognize Polymorphic Epithelial Mucin Core Peptides
Constantin G. Ioannides, Bryan Fisk, Keith R. Jerome, Tatsuro Irimura, J. Taylor Wharton, and Olivera J. Finn
- 3704 IL-4- and IL-5-Secreting Lymphocyte Populations Are Preferentially Stimulated by Parasite-Derived Antigens in Human Tissue Invasive Nematode Infections
S. Mahanty, C. L. King, V. Kumaraswami, J. Regunathan, A. Maya, K. Jayaraman, J. S. Abrams, E. A. Ottesen, and T. B. Nutman
- 3712 Antigen-Reactive $\gamma\delta$ T Cells in Human Leishmaniasis
Donna M. Russo, Richard J. Armitage, Manoel Barral-Netto, Aldina Barral, Kenneth H. Grabstein, and Steven G. Reed
- 3719 Identification of Human Melanoma Peptides Recognized by Class I Restricted Tumor Infiltrating T Lymphocytes
Walter J. Storkus, Herbert J. Zeh III, Markus J. Maeurer, Russell D. Salter, and Michael T. Lotze
- 3728 Immunogenicity Evaluation of a Lipidic Amino Acid-Based Synthetic Peptide Vaccine for *Chlamydia trachomatis*
Guangming Zhong, Istvan Toth, Ronald Reid, and Robert C. Brunham

Inflammation

- 3737 The Hemopoietic Progenitor 32DC13(G) Cells Synthesize C3 Molecules and Acquire C3b Acceptor Sites upon Differentiation or Neoplastic Transformation
Livia Di Renzo, Alessandra Zicari, Agostina Longo, Massimo Realacci, Giuseppe Naso, Giuseppe Pontieri, and Marcella Lipari
- 3746 Inhibition of DNA Repair with Aphidicolin Enhances Sensitivity of Targets to Tumor Necrosis Factor
Joseph F. Gera, Catherine Fady, Agnes Gardner, Fred J. Jacoby, Kenneth B. Briskin, and Alan Lichtenstein
- 3758 Enhanced Production of LPS-Induced Cytokines during Differentiation of Human Monocytes to Macrophages: Role of LPS Receptors
Sandra Gessani, Ugo Testa, Barbara Varano, Paola Di Marzio, Paola Borghi, Lucia Conti, Tiziano Barberi, Elena Tritarelli, Robert Martucci, Davide Seripa, Cesare Peschle, and Filippo Belardelli
- 3767 Modulation of Rat Mast Cell Reactivity by IL-1 β : Divergent Effects on Nitric Oxide and Platelet-Activating Factor Release
Cory M. Hogaboam, A. Dean Befus, and John L. Wallace

- 3775 IL-3-Dependent Murine Mast Cells Undergo Apoptosis on Removal of IL-3: Prevention of Apoptosis by *c-kit* Ligand
Yoseph A. Mekori, Chad K. Oh, and Dean D. Metcalfe
- 3785 Probing the Human Receptor for C5a Anaphylatoxin with Site-Directed Antibodies: Identification of a Potential Ligand Binding Site on the NH₂-Terminal Domain
Martin Oppermann, Ursula Raedt, Thomas Hebell, Bernhard Schmidt, Bodo Zimmermann, Otto Götze
- 3795 Activation of Human Neutrophils Induces an Interaction Between the Integrin β_2 -Subunit (CD18) and the Actin Binding Protein α -Actinin
Fredrick M. Pavalko and Suzette M. LaRoche
- 3808 Regulation of Human Lung Mast Cell Function by Phosphatase Inhibitors
Peter T. Peachell and Michael R. Munday
- 3817 Co-Clustering of β_1 Integrins, Cytoskeletal Proteins, and Tyrosine-Phosphorylated Substrates during Integrin-Mediated Leukocyte Aggregation
Paloma Sánchez-Mateos, Miguel R. Campanero, María A. Balboa, and Francisco Sánchez-Madrid
- 3829 Lipopolysaccharide-Induced Protein Tyrosine Phosphorylation in Human Macrophages Is Mediated by CD14
Steven L. Weinstein, Carl H. June, and Anthony L. DeFranco

Clinical Immunology

- 3840 Mapping Studies Reveal Unique Epitopes on IgG Recognized By Rheumatoid Arthritis-Derived Monoclonal Rheumatoid Factors
Vincent R. Bonagura, Steven E. Artandi, Anne Davidson, Ingrid Randen, Nicodemo Agostino, Keith Thompson, Jacob B. Natvig, and Sherie L. Morrison
- 3853 Immunolocalization of Cytokines in the Nasal Mucosa of Normal and Perennial Rhinitic Subjects: The Mast Cell as a Source of IL-4, IL-5, and IL-6 in Human Allergic Mucosal Inflammation
Peter Bradding, Iain H. Feather, Susan Wilson, Philip G. Bardin, Christoph H. Heusser, Stephen T. Holgate, and Peter H. Howarth
- 3866 Splenic Uptake of Immune Complexes in Man Is Complement-Dependent
Kevin A. Davies, Kristian Erlenidsson, Huw L.C. Beynon, A. Michael Peters, Kristian Steinsson, Helgi Valdimarsson, and Mark J. Walport
- 3874 Characterization of MHC Class I Restricted Cytotoxic T Cell Responses to Tax in HTLV-1 Infected Patients With Neurologic Disease
Scott Koenig, Robert M. Woods, Yambasu A. Brewah, Amy J. Newell, Gary M. Jones, Elizabeth Boone, Joseph W. Adelsberger, Michael W. Baseler, Susan M. Robinson, and Steven Jacobson
- 3884 IL-2 Receptor-Positive Intrathyroidal Lymphocytes in Graves' Disease: Analysis of V α Transcript Microheterogeneity
Richard S. McIntosh, Nikhil Tandon, A. Paul Pickerill, Rose Davies, David Barnett, and Anthony P. Weetman
- 3894 Specific Antibody Production to a Recall or a Neoantigen by SCID Mice Reconstituted with Human Peripheral Blood Lymphocytes
Shigeaki Nonoyama, Franklin O. Smith, and Hans D. Ochs
- 3902 A Subset of Mouse Monoclonal Antibodies Cross-Reactive with Cytoskeletal Proteins and Group A Streptococcal M Proteins Recognizes N-acetyl- β -D-glucosamine
Alexander R. Shikhman, Neil S. Greenspan, and Madeleine W. Cunningham

- 3914 T Cell-Antigen-Presenting Cell Interactions in Human Systemic Lupus Erythematosus: Evidence for Heterogeneous Expression of Multiple Defects
Charles S. Via, George C. Tsokos, Bonnie Bermas, Mario Clerici, and Gene M. Shearer
- 3923 Xenogeneic Thyroid-Stimulating Hormone-Like Activity of the Human Natural Anti-Gal Antibody: Interaction of Anti-Gal with Porcine Thyrocytes and with Recombinant Human Thyroid-Stimulating Hormone Receptors Expressed on Mouse Cells
Roger J. Winand, Fari Anaraki, Jacqueline Etienne-Decerf, and Uri Galili
- 3935 Author Index
- 3937 Information for Contributors
- 3940 Submission Form
- 3941 Membership Form