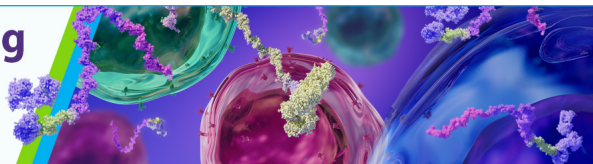


The Power of Sample Multiplexing With TotalSeq™ Hashtags

Read our app note ▶



146 (12)

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

This information is current as
of August 12, 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.



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 ⁺ CD8 $\alpha^+\beta^{-1}$: 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 $\alpha 3(XI)$ Chain of Type XI Collagen and the $\alpha 1(II)$ 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- <i>lpr</i> and - <i>gld</i> 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. Friedrich | 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. Vandembark | 4165 | Protection against Experimental Encephalomyelitis: Idiopathic Autoregulation Induced by a Nonencephalitogenic T Cell Clone Expressing a Cross-Reactive T Cell Receptor V Gene |
| B. A. E. Vandekerckhove, 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 $\alpha\beta$

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- K. Akahane, R. B. Cohen, M. Bickel, and D. H. Pluznik 4190 IL-1 α 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. Yagüe, E. Alsinet, M. D. Fernández, M. Romero, V. Fabregat, J. Martorell, and J. Vives 4209 IL-4 Inhibits IL-2 Synthesis and IL-2-Induced Up-Regulation of IL-2R α but not IL-2R β Chain in CD4⁺ Human T Cells
- I. M. Katona, J. F. Urban, Jr., S. S. Kang, W. E. Paul, and F. 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. Zahedi, M. F. Seldin, M. Rits, 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-DR β Chain Substitutions
- P. H. Kussie, J. M. Anchin, S. Subramaniam, J. A. Glasel, and D. S. Linthicum 4248 Analysis of the Binding Site Architecture of Monoclonal Antibodies to Morphine 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-DR7 β 1 Chain Residues that Are Involved in T Cell Allorecognition
- 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. Zigmund, A. D. Schreiber, E. R. Smith, and F. S. Southwick 4282 Binding of IgG Containing Immune Complexes to Human Neutrophil Fc γ RII and Fc γ RIII Induces Actin Polymerization by a Pertussis 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-Bisphosphate
- M. Zanetti, L. Litteri, G. Grifiths, R. Gennaro, and D. Romeo 4295 Stimulus-Induced Maturation of Proactenecins, Precursors of Neutrophil Antimicrobial Polypeptides

Continued on page 5

MICROBIAL IMMUNOLOGY

- D. Binder and T. M. Kündig 4301 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
- C. C. A. M. Peeters, A.-M. Tenbergen-Meekes, D. E. Evenberg, J. T. Poolman, B. J. M. Zegers, and G. T. Rijkers 4308 A Comparative Study of the Immunogenicity of Pneumococcal Type 4 Polysaccharide and Oligosaccharide Tetanus Toxoid Conjugates in Adult Mice
- S. H. Pincus, R. L. Cole, E. M. Hersh, D. Lake, Y. Masuho, P. J. Durda, and J. McClure 4315 In Vitro Efficacy of Anti-HIV Immunotoxins Targeted by Various Antibodies to the Envelope Protein
- M. R. Posner, T. Hideshima, T. Cannon, M. Mukherjee, K. H. Mayer, and R. A. Byrn 4325 An IgG Human Monoclonal Antibody that Reacts with HIV-1/GP120, Inhibits Virus Binding to Cells, and Neutralizes Infection
- R. M. Poston and R. J. Kurlander 4333 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
- P. Vincendeau and S. Dau-louède 4338 Macrophage Cytostatic Effect on *Trypanosoma musculti* Involves an L-Arginine-Dependent Mechanism

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- J. Caldwell, P. McElhone, J. Brokaw, R. Anker, and B. A. Pollok 4344 Co-Expression of Full-Length and Truncated Ig μ -Chains in Human B Lymphocytes Results from Alternative Splicing of a Single Primary RNA Transcript
- D. L. Farber and D. W. Sears 4352 Rat CD16 is Defined by a Family of Class III Fc γ Receptors Requiring Co-Expression of Heteroprotein Subunits
- H. S. Fox, B. L. Bond, and T. G. Parslow 4362 Estrogen Regulates the IFN- γ Promoter
- U. Gyllensten, M. Sundvall, I. Ezcurra, and H. A. Erlich 4368 Genetic Diversity at Class II DRB Loci of the Primate MHC
- N. J. K. Hole, N. Harindranath, G. O. Young-Cooper, R. Garcia, and R. G. Mage 4377 Identification of Enhancer Sequences 3' of the Rabbit Ig κ L Chain Loci
- V. Pascual, K. Victor, D. Lelsz, M. B. Spellerberg, T. J. Hamblin, K. M. Thompson, I. Randen, J. Natvig, J. D. Capra, and F. K. Stevenson 4385 Nucleotide Sequence Analysis of the V Regions of Two IgM cold Agglutinins: Evidence That the V_H4-21 Gene Segment Is Responsible for the Major Cross-Reactive Idiotype
- M. A. Robinson 4392 The Human T Cell Receptor β -Chain Gene Complex Contains at Least 57 Variable Gene Segments: Identification of Six V β Genes in Four New Gene Families
- E. Stimac, S. Urieli-Shoval, S. Kempin, and D. Pious 4398 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
- C. B. Williams, E. P. Blankenhorn, K. Bird, G. Levinson, and G. A. Gutman 4406 Organization and Nucleotide Sequence of the Rat T Cell Receptor β -Chain Complex

TUMOR IMMUNOLOGY

- K. D. Crossland, V. K. Lee, W. Chen, S. R. Riddell, P. D. Greenberg, and M. A. Cheever 4414 T Cells from Tumor-Immune Mice Nonspecifically Expanded in Vitro with Anti-CD3 Plus IL-2 Retain Specific Function in Vitro and Can Eradicate Disseminated Leukemia in Vivo

Continued on page 6

Continued from page 5

L. L. Lanier, C. Chang, M. Azuma, J. J. Ruitenberg, J. J. Hemperly, and J. H. Phillips	4421	Molecular and Functional Analysis of Human Natural Killer Cell-Associated Neural Cell Adhesion Molecule (N-CAM/CAD56)
D. M. Ojcius, L. M. Zheng, E. C. Sphicas, A. Zychlinsky, and J. D. Young	4427	Subcellular Localization of Perforin and Serine Esterase in Lymphokine-Activated Killer Cells and Cytotoxic T Cells by Immunogold Labeling
Letter to the Editor	4433	
Author Index	4434	
Ad Hoc Reviewers	4435	
Author Index to Volume 146	4440	
Subject Index to Volume 146	4450	