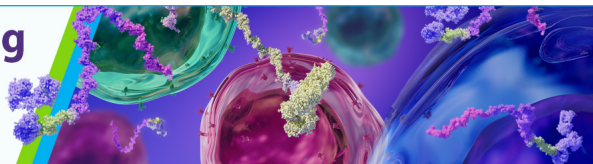


The Power of Sample Multiplexing With TotalSeq™ Hashtags

Read our app note ▶



140 (9)

J Immunol 1988; 140:2861-3279; ;
<http://www.jimmunol.org/content/140/9.citation>

This information is current as
of August 8, 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

TRIBUTE

- J. Cruse 2861 A Centenary Tribute: Michael Heidelberger and the Metamorphosis of Immunologic Science
-

CELLULAR IMMUNOLOGY

- O. Vainio, T. Veromaa, E. Eerola, P. Toivanen, and M. J. H. Ratcliffe 2864 Antigen-Presenting Cell-T Cell Interaction in the Chicken Is MHC Class II Antigen Restricted
- W. R. Hein, S. McClure, M.-F. Beya, L. Dudler, and Z. Trnka 2869 A Novel Glycoprotein Expressed on Sheep T and B Lymphocytes Is Involved in a T Cell Activation Pathway
- L. Inverardi, R. L. Geller, J. T. Gleason, and G. Gromo 2876 Anti-CD2 Monoclonal Antibodies and Calcium Ionophore A23187 Modulate Lytic Activity in CD4⁺ and CD8⁺ Alloreactive Clones
- T. L. Rothstein and D. L. Kolber 2880 Peritoneal B Cells Respond to Phorbol Esters in the Absence of Co-Mitogen
- P. D. Boyer and E. V. Rothenberg 2886 Il-2 Receptor Inducibility Is Blocked in Cortical-Type Thymocytes
- F. Manca, D. Fenoglio, A. Kunkl, C. Cambiaggi, M. Sasso, and F. Celada 2893 Differential Activation of T Cell Clones Stimulated by Macrophages Exposed to Antigen Complexed with Monoclonal Antibodies: A Possible Influence of Paratope Specificity on the Mode of Antigen Processing
- J. Sprent and M. Schaefer 2899 Capacity of Purified Unprimed Lyt-2⁺ Cells to Reject Ia⁻ H-2-Different Tumor Cells in the Winn Assay
- M. Sykes, A. Eisenthal, and D. H. Sachs 2903 Mechanism of Protection from Graft-vs-Host Disease in Murine Mixed Allogeneic Chimeras. I. Development of a Null Cell Population Suppressive of Cell-Mediated Lympholysis Responses and Derived from the Syngeneic Bone Marrow Component
- A. Rivas, S. Takada, J. Koide, G. Sonderstrup-McDevitt, and E. G. Engleman 2912 CD4 Molecules Are Associated with the Antigen Receptor Complex on Activated but Not Resting T Cells
- D. K. Goroff and F. D. Finkelman 2919 Activation of B Cells in Vivo by a Fab/Fc Fragment of a Monoclonal Anti-IgD Antibody Requires an Interaction between the Antibody Fragment and a Cellular IgG Fc Receptor
- S. N. Goud, N. Muthusamy, and B. Subbarao 2925 Differential Responses of B Cells from the Spleen and Lymph Node to TNP-Ficoll
-

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- M. O. Dailey, J. Schreurs, and H. Schulman 2931 Hormone Receptors on Cloned T Lymphocytes: Increased Responsiveness to Histamine, Prostaglandins, and β -Adrenergic Agents as a Late Stage Event in T Cell Activation
- R. M. Bennet, S. H. Hefeneider, A. Bakke, M. Merritt, C. A. Smith, D. Mourich, and M. C. Heinrich 2937 The Production and Characterization of Murine Monoclonal Antibodies to a DNA Receptor on Human Leukocytes
- J. D. Mountz, W. C. Gause, F. D. Finkelman, and A. D. Steinberg 2943 Prevention of Lymphadenopathy in MRL-*lpr/lpr* Mice by Blocking Peripheral Lymph Node Homing with Mel-14 in Vivo

Continued on page 4

Continued from page 3

- M. Rodriguez and S. Sriram 2950 Successful Therapy of Theiler's Virus-Induced Demyelination (DA Strain) with Monoclonal Anti-Lyt-2 Antibody
- A. A. Gaspari and S. I. Katz 2956 Induction and Functional Characterization of Class II MHC (Ia) Antigens on Murine Keratinocytes
- S. A. Stimpson, F. G. Dalldorf, I. G. Otterness, and J. H. Schwab 2964 Exacerbation of Arthritis by IL-1 in Rat Joints Previously Injured by Peptidoglycan-Polysaccharide
- D. A. Wall, S. D. Hamberg, D. S. Reynolds, S. J. Burakoff, A. K. Abbas, and J. L. M. Ferrara 2970 Immunodeficiency in Graft-versus-Host Disease. I. Mechanism of Immune Suppression
- E. W. Shores, R. A. Eisenberg, and P. L. Cohen 2977 T-B Collaboration in the in Vitro Anti-Sm Autoantibody Response of MRL/Mp-lpr Mice

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- I. Lemaire 2983 Neurotensin Enhances IL-1 Production by Activated Alveolar Macrophages
- T. B. Issekutz, J. M. Stoltz, and P. v.d. Meide 2989 Lymphocyte Recruitment in Delayed-Type Hypersensitivity: The Role of IFN- γ
- D. Wallach, H. Holtmann, H. Engelmann, and Y. Nophar 2994 Sensitization and Desensitization to Lethal Effects of Tumor Necrosis Factor and IL-1
- S. Schütze, P. Scheurich, C. Schlüter, U. Ücer, K. Pfizenmaier, and M. Krönke 3000 Tumor Necrosis Factor-Induced Changes of Gene Expression in U937 Cells: Differentiation-Dependent Plasticity of the Responsive State
- L. E. M. Bermudez and L. S. Young 3006 Tumor Necrosis Factor, Alone or in Combination with IL-2, but Not IFN- γ , Is Associated with Macrophage Killing of *Mycobacterium avium* Complex
- E. L. Morgan, M. V. Hobbs, D. J. Noonan, and W. O. Weigle 3014 Induction of IL-1 Secretion from Human Monocytes by Fc Region Subfragments of Human IgG
- W. W. Hancock, M. E. Pleau, and L. Kobzik 3021 Recombinant Granulocyte-Macrophage Colony-Stimulating Factor Down-Regulates Expression of IL-2 Receptor on Human Mononuclear Phagocytes by Induction of Prostaglandin E
- S. M. Wahl, D. A. Hunt, H. L. Wong, S. Dougherty, N. McCartney-Francis, L. M. Wahl, L. Ellingsworth, J. A. Schmidt, G. Hall, A. B. Roberts, and M. B. Sporn 3026 Transforming Growth Factor- β Is a Potent Immunosuppressive Agent That Inhibits IL-1-Dependent Lymphocyte Proliferation
- G. R. Harriman, D. Y. Kunimoto, J. F. Elliott, V. Paetkau, and W. Strober 3033 The Role of IL-5 in IgA B Cell Differentiation
- G. G. Wong, J. S. Witek-Gianotti, P. A. Temple, R. Kriz, C. Ferenz, R. M. Hewick, S. C. Clark, K. Ikebuchi, and M. Ogawa 3040 Stimulation of Murine Hemopoietic Colony Formation by Human IL-6

IMMUNOCHEMISTRY

- P. Blaas, B. Berger, S. Weber, H. H. Peter, and G. M. Hänsch 3045 Paroxysmal Nocturnal Hemoglobinuria: Enhanced Stimulation of Platelets by the Terminal Complement Components Is Related to the Lack of C8bp in the Membrane
- F. Pontillon, P. Moullier, P. M. Ronco, and P. J. Verroust 3052 Angiotensin II (AII)-Related Idiotypic Network. I. Common Occurrence of All Internal Image on Rabbit Anti-Idiotypic Antibodies
- M. Budisavijevic, M. Geniteau-Legendre, B. Baudouin, F. Pontillon, P. J. Verroust, and P. M. Ronco 3059 Angiotensin II (AII)-Related Idiotypic Network. II. Heterogeneity and Fine Specificity of All Internal Images Analyzed with Monoclonal Antibodies
- T. Kinoshita, J. Takeda, K. Hong, H. Kozono, H. Sakai, and K. Inoue 3066 Monoclonal Antibodies to Mouse Complement Receptor Type 1 (CR1): Their Use in a Distribution Study Showing That Mouse Erythrocytes and Platelets are CR1 Negative

Continued on page 5

- P. Giacomini, R. Tecce, R. Gambari, A. Sacchi, P. B. Fisher, and P. G. Natali 3073 Recombinant Human IFN- γ but Not IFN- α or IFN- β , Enhances MHC- and Non-MHC-Encoded Glycoproteins by a Protein Synthesis-Dependent Mechanism
- B. H. Littman and K. M. Sanders 3082 Effects of Vitamin D₃ and IFN- γ on the Synthesis of the Second Complement Component, C2, by a Human Myeloid Leukemia (HL-60) Cell Line
- D. Kvale, D. Løvhaug, L. M. Sollid, and P. Brandtzaeg 3086 Tumor Necrosis Factor- α Up-Regulates Expression of Secretory Component, the Epithelial Receptor for Polymeric Ig
- H. R. Katz, E. T. Dayton, F. Levi-Schaffer, A. C. Benson, K. F. Austen, and R. L. Stevens 3090 Coculture of Mouse IL-3-Dependent Mast Cells with 3T3 Fibroblasts Stimulates Synthesis of Globopentaosylceramide (Forssman Glycolipid) by Fibroblasts and Surface Expression on Both Populations
- E. H. Sasso, C. V. Barber, F. A. Nardella, W. J. Yount, and M. Mannik 3098 Antigenic Specificities of Human Monoclonal and Polyclonal IgM Rheumatoid Factors: The C γ 2-C γ 3 Interface Region Contains the Major Determinants
- M. Takei, H. Dang, R. J. Wang, and N. Talal 3108 Characteristics of a Human Monoclonal Anti-Sm Autoantibody Expressing an Interspecies Idiotype
- G. C. Stone, F. A. Nardella, I. R. Oppliger, and M. Mannik 3114 Absence of Auto-Antidiotypic Activity between the IgM and IgG Fractions of Human Mixed Cryoglobulins
- H. B. Fleit and M. Kuhnle 3120 Biochemical Characterization of an Fc γ Receptor Purified from Human Neutrophils
- F. Koning, A. M. Lew, W. L. Maloy, R. Valas, and J. E. Coligan 3126 The Biosynthesis and Assembly of T Cell Receptor α - and β -Chains with the CD3 Complex

IMMUNOPHARMACOLOGY

- M. M. Harnett and G. G. B. Klaus 3135 G Protein Coupling of Antigen Receptor-Stimulated Polyphosphoinositide Hydrolysis in B Cells
- C. S. Tripp, P. Needleman, J. T. Kassab, and J. V. Weinstock 3140 Macrophages Isolated from Liver Granulomas of Murine *Schistosoma mansoni* Synthesize Predominantly TxA₂ during the Acute and Chronic Phases of Infection
- M. I. Cybulsky, D. J. McComb, and H. Z. Movat 3144 Neutrophil Leukocyte Emigration Induced by Endotoxin: Mediator Roles of IL-1 and Tumor Necrosis Factor α
- J. T. Ransom, M. Chen, V. M. Sandoval, J. A. Pasternak, D. Digiusto, and J. C. Cambier 3150 Increased Plasma Membrane Permeability to Ca²⁺ in Anti-Ig-Stimulated B Lymphocytes Is Dependent on Activation of Phosphoinositide Hydrolysis
- J. P. Buyon, S. B. Abramson, M. Phillips, S. G. Slade, G. D. Ross, G. Weissmann, and R. J. Winchester 3156 Dissociation between Increased Surface Expression of Gp165/95 and Homotypic Neutrophil Aggregation
- G. Kimani, M. G. Tonnesen, and P. M. Henson 3161 Stimulation of Eosinophil Adherence to Human Vascular Endothelial Cells in Vitro by Platelet-Activating Factor

MICROBIAL IMMUNOLOGY

- R. T. Gazzinelli, M. J. F. Morato, R. M. B. Nunes, J. R. Cançado, Z. Brener, and G. Gazzinelli 3167 Idiotype Stimulation of T Lymphocytes from *Trypanosoma cruzi*-Infected Patients
- S. H. E. Kaufmann, H.-R. Rodewald, E. Hug, and G. De Libero 3173 Cloned *Listeria monocytogenes* Specific Non-MHC-Restricted Lyt-2⁺ T Cells with Cytolytic and Protective Activity
- C. S. Edén, R. Shahin, and D. Briles 3180 Host Resistance to Mucosal Gram-Negative Infection: Susceptibility of Lipopolysaccharide Nonresponder Mice
- W. M. Kast, C. J. P. Boog, B. O. Roep, A. C. Voordouw, and C. J. M. Melief 3186 Failure or Success in the Restoration of Virus-Specific Cytotoxic T Lymphocyte Response Defects by Dendritic Cells

- W. J. Masterson, D. Taylor, and M. J. Turner 3194 Topologic Analysis of the Epitopes of a Variant Surface Glycoprotein of *Trypanosoma brucei*
- P. G. Shackelford, S. J. Nelson, A. T. Palma, and M. H. Nahm 3200 Human Antibodies to Group A Streptococcal Carbohydrate: Ontogeny, Subclass Restriction, and Clonal Diversity
- I. M. Katona, J. F. Urban, Jr., and F. D. Finkelman 3206 The Role of L3T4⁺ and Lyt-2⁺ T Cells in the IgE Response and Immunity to *Nippostrongylus brasiliensis*

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- A. D. Sturgess, M. G. Peterson, L. J. McNeilage, S. Whittingham, and R. L. Coppel 3212 Characteristics and Epitope Mapping of a Cloned Human Autoantigen La
- D. R. Katzenberg and B. K. Birshstein 3219 Sites of Switch Recombination in IgG2b- and IgG2a-Producing Hybridomas
- W. Born, J. White, J. Kappler, and P. Marrack 3228 Rearrangement of IgH Genes in Normal Thymocyte Development
- J. S. Malter, J. C. Reed, and M. Kamoun 3233 Induction and Regulation of CD2 mRNA in Human Lymphocytes
- N. Sittisombut, J. Mordacq, and K. L. Knight 3237 Rabbit MHC. II. Sequence Analysis of the R-DP α - and β -Genes

TUMOR IMMUNOLOGY

- K. Takahashi, K. Ono, Y. Hirabayashi, and M. Taniguchi 3244 Escape Mechanisms of Melanoma from Immune System by Soluble Melanoma Antigen
- G. C. Koo, M. E. Jewell, C. L. Manyak, N. H. Sigal, and L. S. Wicker 3249 Activation of Murine Natural Killer Cells and Macrophages by 8-Bromoguanosine
- D. L. Thiele, S. S. Patel, and P. E. Lipsky 3253 Anti-CD3 and Phorbol Myristate Acetate Regulation of MHC Unrestricted T Cell Cytotoxicity: Lack of a Requirement for CD3/T Cell Receptor Complex Expression during Tumor Cell Lysis
- R. H. Wilttrout, M. R. Boyd, T. T. Back, R. R. Salup, J. A. Arthur, and R. L. Hornung 3261 Flavone-8-Acetic Acid Augments Systemic Natural Killer Cell Activity and Synergizes with IL-2 for Treatment of Murine Renal Cancer
- T. J. Powell, Jr., R. Spann, M. Vakil, J. F. Kearney, and E. W. Lamon 3266 Activation of a Functional Idiotypic Network Response by Monoclonal Antibody Specific for a Virus (M-MuLV)-Induced Tumor Antigen

ERRATA

- P. Omer Ali, S. R. Smithers, G. Bickle, S. M. Phillips, D. Harn, and A. J. G. Simpson 3273 Analysis of the Anti-*Schistosoma mansoni* Surface Antibody Response during Murine Infection and Its Potential Contribution to Protective Immunity
- Author Index 3280