



A single guide about Immunology



Download
Guide



The Journal of
Immunology

144 (7)

J Immunol 1990; 144:2451-2847; ;
<http://www.jimmunol.org/content/144/7.citation>

This information is current as
of October 19, 2019.

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

- S. R. Abromson-Leeman, S. Jayaraman, and M. E. Dorf 2451 Characterization of T Cell Clones from an Athymic Mouse
- D. C. Anderson, W. C. A. Van Schooten, A. Janson, M. E. Barry, and R. R. P. De Vries 2459 Molecular Mapping of Interactions between a *Mycobacterium leprae*-Specific T Cell Epitope, the Restricting HLA-DR2 Molecule, and Two Specific T Cell Receptors
- H. Braley-Mullen 2465 Requirement for B Cells for Activation of Contrasuppressor T Cells by Type III Pneumococcal Polysaccharide
- J. E. Callahan, A. Herman, J. W. Kappler, and P. Marrack 2473 Stimulation of B10.BR T Cells with Superantigenic Staphylococcal Toxins
- M. Clerici and G. M. Shearer 2480 Differential Sensitivity of Human T Helper Cell Pathways by in Vitro Exposure to Cyclosporin A
- P. D. Cruz, Jr., R. E. Tigelaar, and P. R. Bergstresser 2486 Langerhans Cells That Migrate to Skin after Intravenous Infusion Regulate the Induction of Contact Hypersensitivity
- A. G. Lamont, M. F. Powell, S. M. Colón, C. Miles, H. M. Grey, and A. Sette 2493 The Use of Peptide Analogs with Improved Stability and MHC Binding Capacity to Inhibit Antigen Presentation in Vitro and in Vivo
- E. L. Morgan, M. V. Hobbs, M. L. Thoman, J. Janda, D. J. Noonan, J. Kadar, and W. O. Weigle 2499 Induction of Human B Cell Differentiation by Fc Region Activators. II. Stimulation of IL-6-Production
- J. J. Ryan, H. B. LeJeune, J. J. Mond, and F. D. Finkelman 2506 Genetic Analysis of the Presentation of Minor Lymphocyte-Stimulating Determinants. II. Differing Non-MHC Control of Super-Stimulatory and More Poorly Stimulatory MIs Phenotypes
- I. D. Theodorou, L. Boumsell, C.-F. Calvo, H. Gouy, H. M. Beral, and P. Debre 2518 CD1 Stimulation of Human T Cell Lines Induces a Rapid Increase in the Intracellular Free Ca²⁺ Concentration and the Production of IL-2
- C. S. Via, G. C. Tsokos, N. I. Stocks, M. Clerici, and G. M. Shearer 2524 Human in Vitro Allogeneic Responses: Demonstration of Three Pathways of T Helper Cell Activation

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- D. M. Klinman 2529 IgG1 and IgG2a Production by Autoimmune B Cells Treated in Vitro with IL-4 and IFN- γ
- J. Krowka, D. Stites, R. Debs, C. Larsen, J. Fedor, E. Brunette, and N. Düzgünes 2535 Lymphocyte Proliferative Responses to Soluble and Liposome-Conjugated Envelope Peptides of HIV-1
- H. L. Schieferdecker, R. Ulrich, A. N. Weiss-Breckwoldt, R. Schwarting, H. Stein, E.-O. Riecken, and M. Zeitz 2541 The HML-1 Antigen of Intestinal Lymphocytes Is an Activation Antigen
- D. T. Umetsu, L. Esserman, T. A. Donlon, R. H. DeKruyff, and R. Levy 2550 Induction of Proliferation of Human Follicular (B Type) Lymphoma Cells by Cognate Interaction with a CD4⁺ T Cell Clones
- S. M. Wellicome, M. H. Thornhill, C. Pitzalis, D. S. Thomas, J. S. S. Lanchbury, G. S. Panayi, and D. O. Haskard 2558 A Monoclonal Antibody That Detects a Novel Antigen on Endothelial Cells That Is Induced by Tumor Necrosis Factor, IL-1, or Lipopolysaccharide
- S. D. Wright, P. A. Detmers, Y. Aida, R. Adamowski, D. C. Anderson, Z. Chad, L. G. Kabbash, and M. J. Pabst 2566 CD18-Deficient Cells Respond to Lipopolysaccharide in Vitro

Continued on page 4

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- F. B. Aiello, D. L. Longo, R. Overton, L. Takacs, and S. K. Durum 2572 A Role for Cytokines in Antigen Presentation: IL-1 and IL-4 Induce Accessory Functions of Antigen-Presenting Cells
- J. S. Andrews, A. E. Berger, and C. F. Ware 2582 Characterization of the Receptor for Tumor Necrosis Factor (TNF) and Lymphotoxin (LT) on Human T Lymphocytes: TNF and LT Differ in Their Receptor Binding Properties and the Induction of MHC Class I Proteins on a Human CD4⁺ T Cell Hybridoma
- H. Gascan, I. Ane on, V. Praloran, J. Naulet, A. Godard, J.-P. Soullillou, and Y. Jacques 2592 Constitutive Production of Human Interleukin for DA Cells/Leukemia Inhibitory Factor by Human Tumor Cell Lines Derived from Various Tissues
- R. Goitsuka, T. Ohashi, K. Ono, K. Yasukawa, Y. Koishibara, H. Fukui, Y. Ohsugi, and A. Hasegawa 2599 IL-6 Activity in Feline Infectious Peritonitis
- S. Sch tze, S. Nottrott, K. Pflizenmaier, and M. Kr nke 2604 Tumor Necrosis Factor Signal Transduction: Cell-Type-Specific Activation and Translocation of Protein Kinase C
- A. J. Thornton, R. M. Strieter, I. Lindley, M. Baggiolini, and S. L. Kunkel 2609 Cytokine-Induced Gene Expression of a Neutrophil Chemotactic Factor/IL-8 in Human Hepatocytes

IMMUNOCHEMISTRY

- M. L. Andria, S. Levy, and E. Benjamini 2614 Diverse V_H and V_L Genes Are Used to Produce Antibodies against a Defined Protein Epitope
- A. Black, E. A. Padlan, D. Givol, S. L. Morrison, and E. A. Kabat 2620 Two Ig Framework I Epitopic Specificities Recognized by a Rabbit Antiserum and a Monoclonal Antibody to Mouse V_H Chains
- F. B. Grieder and K. T. Schultz 2627 Antiidiotypic Antibody Mimicry of a Bluetongue Virus Neutralizing Antigen
- M. Hessing, C. Van 'T Veer, and B. N. Bouma 2632 The Binding Site of Human C4b-Binding Protein on Complement C4 Is Localized in the α -Chain
- M. L. Richards and D. H. Katz 2638 The Binding of IgE to Murine Fc ϵ RII Is Calcium-Dependent but Not Inhibited by Carbohydrate
- C. D. Surh, A. Ahmed-Ansari, and M. E. Gershwin 2647 Comparative Epitope Mapping of Murine Monoclonal and Human Autoantibodies to Human PDH-E2, the Major Mitochondrial Autoantigen of Primary Biliary Cirrhosis
- R. H. Weisbart, D. T. Noritake, A. L. Wong, G. Chan, A. Kacena, and K. K. Colburn 2653 A Conserved Anti-DNA Antibody Idiotype Associated with Nephritis in Murine and Human Systemic Lupus Erythematosus

IMMUNOPHARMACOLOGY

- T. Hultsch, J. L. Rodriguez, M. A. Kaliner, and R. J. Hohman 2659 Cyclosporin A Inhibits Degranulation of Rat Basophilic Leukemia Cells and Human Basophils: Inhibition of Mediator Release without Affecting PI Hydrolysis or Ca²⁺ Fluxes
- R. Levy and D. Tarsi-Tsuk 2665 Stimulation of the Respiratory Burst in Peripheral Blood Monocytes by Lipoteichoic Acid: The Involvement of Calcium Ions and Phospholipase A₂
- S. R. Lundy, R. L. Dowling, T. M. Stevens, J. S. Kerr, W. M. Mackin, and K. R. Gans 2671 Kinetics of Phospholipase A₂, Arachidonic Acid, and Eicosanoid Appearance in Mouse Zymosan Peritonitis
- M. Mohri, D. R. Spriggs, and D. Kufe 2678 Effects of Lipopolysaccharide on Phospholipase A₂ Activity and Tumor Necrosis Factor Expression in HL-60 Cells
- A. E. Nel, C. Hanekom, A. Rheeder, K. Williams, S. Pollack, R. Katz, and G. E. Landreth 2683 Stimulation of MAP-2 Kinase Activity in T Lymphocytes by Anti-CD3 or Anti-Ti Monoclonal Antibody Is Partially Dependent on Protein Kinase C

Continued on page 5

Continued from page 4

- T. Pessa-Morikawa, T. Mustelin, and L. C. Andersson 2690 Functional Maturation of Human T Lymphocytes Is Accompanied by Changes in the G-Protein Pattern
- P. G. Schulam and W. T. Shearer 2696 Evidence for 5-Lipoxygenase Activity in Human B Cell Lines: A Possible Role for Arachidonic Acid Metabolites during B Cell Signal Transduction
- S. B. Shappell, C. Toman, D. C. Anderson, A. A. Taylor, M. L. Entman, and C. W. Smith 2702 Mac-1 (CD11b/CD18) Mediates Adherence-Dependent Hydrogen Peroxide Production by Human and Canine Neutrophils
- R. Steadman, M. M. Petersen, N. Topley, D. Williams, N. Matthews, B. Spur, and J. D. Williams 2712 Differential Augmentation by Recombinant Human Tumor Necrosis Factor- α of Neutrophil Responses to Particulate Zymosan and Glucan
- R. A. Terkeltaub, L. A. Sklar, and H. Mueller 2719 Neutrophil Activation by Inflammatory Microcrystals of Monosodium Urate Monohydrate Utilizes Pertussis Toxin-Insensitive and -Sensitive Pathways

MICROBIAL IMMUNOLOGY

- L. B. Adams, J. B. Hibbs, Jr., R. R. Taintor, and J. L. Krahenbuhl 2725 Microbiostatic Effect of Murine-Activated Macrophages for *Toxoplasma gondii*: Role for Synthesis of Inorganic Nitrogen Oxides from L-Arginine
- X.-M. Gao, F. Y. Liew, and J. P. Tite 2730 A Dominant Th Epitope in Influenza Nucleoprotein: Analysis of the Fine Specificity and Functional Repertoire of T Cells Recognizing a Single Determinant
- A. Marra, M. A. Horwitz, and H. A. Shuman 2738 The HL-60 Model for the Interaction of Human Macrophages with the Legionnaires' Disease Bacterium
- T. B. McNeely and S. J. Turco 2745 Requirement of Lipophosphoglycan for Intracellular Survival of *Leishmania donovani* within Human Monocytes
- E. J. Pearce, B. F. Hall, and A. Sher 2751 Host-Specific Evasion of the Alternative Complement Pathway by Schistosomes Correlates with the Presence of a Phospholipase C-Sensitive Surface Molecule Resembling Human Decay Accelerating Factor
- S. R. Reynolds, S. L. Kunkel, D. W. Thomas, and G. I. Hishashi 2757 T Cell Clones for Antigen Selection and Lymphokine Production in Murine *Schistosomiasis mansoni*
- J. M. Routes and J. L. Cook 2763 Resistance of Human Cells to the Adenovirus E3 Effect on Class I MHC Antigen Expression: Implications for Antiviral Immunity
- L. S. Schlesinger, C. G. Bellinger-Kawahara, N. R. Payne, and M. A. Horwitz 2771 Phagocytosis of *Mycobacterium tuberculosis* Is Mediated by Human Monocyte Complement Receptors and Complement Component C3
- L. Schofield and P. Uadia 2781 Lack of *Ir* Gene Control in the Immune Response to Malaria. I. A Thymus-Independent Antibody Response to the Repetitive Surface Protein of Sporozoites
- D. B. Thomas, J. Hodgson, P. F. Riska, and C. M. Graham 2789 The Role of the Endoplasmic Reticulum in Antigen Processing: N-Glycosylation of Influenza Hemagglutinin Abrogates CD4⁺ Cytotoxic T Cell Recognition of Endogenously Processed Antigen

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- S. H. Clarke, L. M. Staudt, J. Kavalier, D. Schwartz, W. U. Gerhard, and M. G. Weigert 2795 V Region Gene Usage and Somatic Mutation in the Primary and Secondary Responses to Influenza Virus Hemagglutinin
- J. A. Flaspholer and C. Milcarek 2802 Myelomas and Lymphomas Expressing the Ig γ 2a H Chain Gene Have Similar Transcription Termination Regions
- D. G. Jackson and J. I. Bell 2811 Isolation of a cDNA Encoding the Human CD38 (T10) Molecule, a Cell Surface Glycoprotein with an Unusual Discontinuous Pattern of Expression during Lymphocyte Differentiation

Continued on page 6

Continued from page 5

- P. Sanchez, P. N. Marche, D. Rueff-Juy, and P.-A. Cazenave 2816 Mouse V λ x Gene Sequence Generates No Junctional Diversity and Is Conserved in Mammalian Species
- L. A. Spatz, K. K. Wong, M. Williams, R. Desai, J. Golier, J. E. Berman, F. W. Alt, and N. Latov 2821 Cloning and Sequence Analysis of the V_H and V_L Regions of an Anti-myelin/DNA Antibody from a Patient with Peripheral Neuropathy and Chronic Lymphocytic Leukemia
- S. D. Thompson, J. Pelkonen, M. Rytönen, J. Samaridis, and J. L. Hurwitz 2829 Nonrandom Rearrangement of T Cell Receptor J α Genes in Bone Marrow T Cell Differentiation Cultures
- R. W. J. Van Der Heijden, H. Bunschoten, V. Pascual, F. G. C. M. Uytdehaag, A. D. M. E. Osterhaus, and J. D. Capra 2835 Nucleotide Sequence of a Human Monoclonal Anti-Idiotypic Antibody Specific for a Rabies Virus-Neutralizing Monoclonal Idiotypic Antibody Reveals Extensive Somatic Variability Suggestive of an Antigen-Driven Immune Response

TUMOR IMMUNOLOGY

- J. D. I. Ellenhorn, H. Schreiber, and J. A. Bluestone 2840 Mechanism of Tumor Rejection in Anti-CD3 Monoclonal Antibody-Treated Mice
- Letters to the Editor 2847
- Erratum 2848
- Announcement 2848
- Author Index 2849