



This information is current as  
of May 28, 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>

---

# Contents

---



---

## PRESIDENTIAL ADDRESS

---

- M. E. Koshland** i Molecular Aspects of B Cell Differentiation

---

## COMMUNICATION

---

- A. D. O'Brien and D. L. Rosenstreich** 2613 Genetic Control of the Susceptibility of C3HeB/FeJ Mice to *Salmonella typhimurium* Is Regulated by a Locus Distinct from Known Salmonella Response Genes

---

## CELLULAR IMMUNOLOGY

---

- H. Kiyono, L. M. Mosteller, J. H. Eldridge, S. M. Michalek, and J. R. McGhee** 2616 IgA Responses in Xid Mice: Oral Antigen Primes Peyer's Patch Cells for *In Vitro* Immune Responses and Secretory Antibody Production
- R. C. Hard, Jr., W. H. Carter, and P. H. Bick** 2623 Sensitized ( $T_6 \times$  RFM) $F_1$  Donor B Cells Are Engrafted and Synthesize Antibodies without Further Antigenic Stimulation in RFM Recipients with Allogenic Host-vs-Graft Disease
- E. A. Goldings** 2630 Defective B Cell Tolerance Induction in New Zealand Black Mice. I. Macrophage Independence and Comparison with Other Autoimmune Strains
- D. Opstelten and D. G. Osmond** 2635 Pre-B Cells in Mouse Bone Marrow: Immunofluorescence Stathmokinetic Studies of the Proliferation of Cytoplasmic  $\mu$ -Chain-bearing Cells in Normal Mice
- J. G. Monroe and J. C. Cambier** 2641 B Cell Activation. II. Receptor Cross-linking by Thymus-independent and Thymus-dependent Antigens Induces a Rapid Decrease in the Plasma Membrane Potential of Antigen-binding B Lymphocytes
- L. E. Samelson and R. H. Schwartz** 2645 T Cell Clone-Specific Alloantisera that Inhibit or Stimulate Antigen-induced T Cell Activation
- G. A. Silverman, B. A. Peri, F. W. Fitch, and R. M. Rothberg** 2651 Enterically Induced Regulation of Systemic Immune Responses. I. Lymphoproliferative Responses in Mice Suppressed by Ingested Antigen
- G. A. Silverman, B. A. Peri, F. W. Fitch, and R. M. Rothberg** 2656 Enterically Induced Regulation of Systemic Immune Responses. II. Suppression of Proliferating T Cells by an  $Lyt-1^+$ ,  $2^-$  T Effector Cell
- M. F. Good and G. J. V. Nossal** 2662 Functional Clonal Deletion and Suppression as Complementary Mechanisms Operative in Adult Hapten-induced Cytotoxic T Cell Tolerance
- J. Y. Niederkorn and J. W. Streilein** 2670 Alloantigens Placed into the Anterior Chamber of the Eye Induce Specific Suppression of Delayed-type Hypersensitivity but Normal Cytotoxic T Lymphocyte and Helper T Lymphocyte Responses
- F. M. Graziano, L. Gunderson, L. Larson, and P. W. Askenase** 2675 IgE Antibody-mediated Cutaneous Basophil Hypersensitivity Reactions in Guinea Pigs
- H. N. Claman and B. D. Jaffee** 2682 Desensitization of Contact Allergy to DNFB in Mice. I. Description of a Model System
- P. W. Askenase, H. V. Loveren, S. Kraeuter-Kops, Y. Ron, R. Meade, T. C. Theoharides, J. J. Nordlund, H. Scovern, M. D. Gershon, and W. Ptak** 2687 Defective Elicitation of Delayed-type Hypersensitivity in  $W/W^v$  and  $Sl/Sl^d$  Mast Cell-deficient Mice
- O. Carpén, I. Virtanen, V.-P. Lehto, and E. Saksela** 2695 Polarization of NK Cell Cytoskeleton upon Conjugation with Sensitive Target Cells
- J. Stein-Streilein, M. Bennett, D. Mann, and V. Kumar** 2699 Natural Killer Cells in Mouse Lung: Surface Phenotype, Target Preference, and Response to Local Influenza Virus Infection

Continued on page 4

Continued from page 3

- J. C. Hiserodt, L. Britvan, and S. R. Targan 2705 Studies on the Mechanism of the Human Natural Killer Cell Lethal Hit: Analysis of the Mechanism of Protease Inhibition of the Lethal Hit
- J. C. Hiserodt, L. J. Britvan, and S. R. Targan 2710 Studies on the Mechanism of the Human Natural Killer Cell Lethal Hit: Evidence for Transfer of Protease-sensitive Structures Requisite for Target Cell Lysis
- G. Ramila, S. Studer, S. Mischler, and P. Erb 2714 Evaluation of Ia<sup>+</sup> Tumor Cell Lines and Peritoneal Exudate Macrophages as Accessory Cells: Differential Requirements for the Activation of Certain T Cell Functions
- M. R. Parwaresch, H. J. Radzun, A. C. Feller, K.-P. Peters, and M.-L. Hansmann 2719 Peroxidase-positive Mononuclear Leukocytes as Possible Precursors of Human Dendritic Reticulum Cells
- D. J. McKean, A. Nilson, A. J. Infante, and L. Kazim 2726 Biochemical Characterization of B Lymphoma Cell Antigen Processing and Presentation to Antigen-reactive T Cells
- G. Sterkers, Y. Henin, J. Kalil, M. Bagot, and J.-P. Levy 2735 Influence of HLA Class I- and Class II-specific Monoclonal Antibodies on DR-restricted Lymphoproliferative Responses. I. Unseparated Populations of Effector Cells
- S. M. Breathnach and S. I. Katz 2741 Keratinocytes Synthesize Ia Antigen in Acute Cutaneous Graft-vs-Host Disease
- J. C. Waldrep and H. J. Kaplan 2746 Cyclophosphamide-sensitive Contradpression in TNP-Anterior Chamber Associated Immune Deviation (TNP-ACAID)

---

### CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

---

- H. Deguchi, M. Suemura, A. Ishizaka, Y. Ozaki, S. Kishimoto, Y. Yamamura, and T. Kishimoto ✓ 2751 IgE Class-specific Suppressor T Cells and Factors in Humans
- A. Landay, G. L. Gartland, and L. T. Clement 2757 Characterization of a Phenotypically Distinct Subpopulation of Leu-2<sup>+</sup> Cells that Suppresses T Cell Proliferative Responses
- S. S. Matsumoto, J. Yu, and A. L. Yu 2762 Inhibition of RNA Synthesis by Deoxyadenosine Plus Deoxycytosine in Resting Lymphocytes
- J. H. M. Cohen, L. Danel, G. Cordier, S. Saez, J.-P. Revillard 2767 Sex Steroid Receptors in Peripheral T Cells: Absence of Androgen Receptors and Restriction of Estrogen Receptors to OKT8-Positive Cells
- L. F. Thompson, M. H. Mellon, R. S. Zeiger, and H. L. Spiegelberg ✓ 2772 Characterization with Monoclonal Antibodies of T Lymphocytes Bearing Fc Receptors for IgE (T<sub>ε</sub> Cells) and IgG (T<sub>γ</sub> Cells) in Atopic Patients
- A. M. Krensky, C. Clayberger, J. L. Greenstein, M. Crimmins, and S. J. Burakoff 2777 A DC-specific Cytolytic T Lymphocyte Line Is OKT8<sup>+</sup>
- M. Zanetti and C. B. Wilson 2781 Participation of Auto-anti-idiotypes in Immune Complex Glomerulonephritis in Rabbits
- D. B. Magilavy, T. R. Hundley, A. D. Steinberg, and D. S. Finbloom 2784 Abnormal Binding of Soluble IgG Immune Complexes to Hepatic Nonparenchymal Cells of Autoimmune Mice
- E. B. Steinberg, T. J. Santoro, T. M. Chused, P. A. Smathers, and A. D. Steinberg 2789 Studies of Congenic MRL-*lpr/lpr.xid* Mice
- R. A. Aronson, S. L. Cook, and J. K. Roche ✓ 2796 Sensitization to Epithelial Antigens in Chronic Mucosal Inflammatory Disease. I. Purification, Characterization, and Immune Reactivity of Murine Epithelial Cell-associated Components (ECAC)
- W. E. Hickey, N. K. Gonatas, H. Kimura, and D. B. Wilson 2805 Identification and Quantitation of T Lymphocyte Subsets Found in the Spinal Cord of the Lewis Rat during Acute Experimental Allergic Encephalomyelitis
- J. Holoshitz, A. Frenkel, A. Ben-Nun, and I. R. Cohen 2810 Autoimmune Encephalomyelitis (EAE) Mediated or Prevented by T Lymphocyte Lines Directed against Diverse Antigenic Determinants of Myelin Basic Protein. Vaccination Is Determinant Specific

---

### CYTOKINES • MEDIATORS • REGULATORY MOLECULES

---

- A. Zlotnik, R. P. Shimonkevitz, M. L. Gelfer, J. Kappler, and P. Marrack 2814 Characterization of the  $\gamma$ -Interferon-Mediated Induction of Antigen-presenting Ability in P388D1 Cells
- J. Le, W. Prenskey, Y. K. Yip, Z. Chang, T. Hoffman, H. C. Stevenson, I. Balazs, J. R. Sadlik, and J. Vilček 2821 Activation of Human Monocyte Cytotoxicity by Natural and Recombinant Immune Interferon
- J. A. Green, P. N. Weiss, and S. L. Spruance 2827 Spontaneous and Induced Interferon Production by Peripheral Blood Mononuclear Leukocytes from Humans with Herpes Labialis

Continued on page 5

Continued from page 4

- D. H. Lovett, J. L. Ryan, and B. Sterzel 2830 Stimulation of Rat Mesangial Cell Proliferation by Macrophage Interleukin 1
- P. Hersey, C. Bindon, M. Czerniecki, A. Spurling, J. Wass, and W. H. McCarthy 2837 Inhibition of Interleukin 2 Production by Factors Released from Tumor Cells
- C. T. Healy, J. A. Kapp, and D. R. Webb 2843 Purification and Biochemical Analysis of Antigen-specific Suppressor Factors Obtained from the Supernatant, Membrane, or Cytosol of a T Cell Hybridoma
- T. M. Aune, D. R. Webb, and C. W. Pierce 2848 Purification and Initial Characterization of the Lymphokine Soluble Immune Response Suppressor
- C. L. Gateley, S. M. Wahl, and J. J. Oppenheim 2853 Characterization of Hydrogen Peroxide-potentiating Factor, A Lymphokine that Increases the Capacity of Human Monocytes and Monocyte-like Cell Lines to Produce Hydrogen Peroxide
- W. Ptak, R. K. Gershon, R. W. Rosenstein, J. H. Murray, and R. E. Cone 2859 Purification and Characterization of TNP-specific Immunoregulatory Molecules Produced by T Cells Sensitized by Picrylchloride (PC1F)
- R. A. Miller 2864 IL 2 Production by Mitogen-stimulated T Cell Subsets: Helper Precursors Are Predominantly Lyt-2<sup>-1</sup>

---

### IMMUNOCHEMISTRY

---

- L. H. Glimcher, J. A. Schroer, C. Chan, and E. M. Shevach 2868 Fine Specificity of Cloned Insulin-specific T Cell Hybridomas: Evidence Supporting a Role for Tertiary Conformation
- P. R. Morrow, D. M. Rennick, and E. Benjamini 2875 The Antibody Response to a Single Antigenic Determinant of the Tobacco Mosaic Virus Protein (TMVP): Effects of Allotype-linked Genes and Restricted Heterogeneity of the Response
- T. P. Bender, J. Schroer, and J. L. Claffin 2882 Idiotypes on Monoclonal Antibodies to Bovine Insulin. I. Two Public Idiotypes on Anti-bovine Insulin Hybridomas Define Idiotypically Distinct Families of Hybridomas
- E. Reed, V. Bonagura, P. Kung, D. W. King, and N. Suci-Foca 2890 Anti-idiotypic Antibodies to HLA-DR4 and DR2
- P. Parham 2895 On the Fragmentation of Monoclonal IgG1, IgG2a, and IgG2b from BALB/c Mice
- P. L. Witte and J. W. Streilein 2903 Thy-1 Antigen Is Present on B and T Lymphocytes of the Syrian Hamster
- D. J. Anderson, P. H. Adams, M. S. Hamilton, and N. J. Alexander 2908 Antisperm Antibodies in Mouse Vasectomy Sera React with Embryonal Teratocarcinoma
- P. G. Beatty, J. A. Ledbetter, P. J. Martin, T. H. Price, and J. A. Hansen 2913 Definition of a Common Leukocyte Cell Surface Antigen (Lp95-150) Associated with Diverse Cell-mediated Immune Functions
- D. H. Gutmann, P. M. Allen, and J. E. Niederhuber 2919 Separation of the Immune Response Genes for LDH-B and MOPC-173. I. Description of an Immune Response Defect in B10.Basri
- J. S. Peacock and B. G. Barisas 2924 Photobleaching Recovery Studies of T-Independent Antigen Mobility on Antibody-bearing Liposomes
- K. James, L. Baum, C. Adamowski, and H. Gewurz 2930 C-Reactive Protein Antigenicity on the Surface of Human Lymphocytes
- S. Taketani, M. S. Krangel, D. Pious, and J. L. Strominger 2935 Structural Analysis of HLA-A2 Antigen from Immunoselected Mutant 8.6.1: Further Definition of an HLA-A2-Specific Serological Determinant
- B. A. Osborne, J. K. Lunney, L. Pennington, D. H. Sachs, and S. Rudikoff 2939 Two-dimensional Gel Analysis of Swine Histocompatibility Antigens

---

### IMMUNOPHARMACOLOGY

---

- M. Plaut, G. Marone, and E. Gillespie 2945 The Role of Cyclic AMP in Modulating Cytotoxic T Lymphocytes. II. Sequential Changes during Culture in Responsiveness of Cytotoxic Lymphocytes to Cyclic AMP-Active Agents
- W. E. Seaman 2953 Human Natural Killer Cell Activity Is Reversibly Inhibited by Antagonists of Lipooxygenation
- J.-M. Mencia-Huerta, R. A. Lewis, E. Razin, and K. F. Austen 2958 Antigen-initiated Release of Platelet-activating Factor (PAF-Acether) from Mouse Bone Marrow-derived Mast Cells Sensitized with Monoclonal IgE
- A. M. Dvorak, H. F. Dvorak, S. P. Peters, E. S. Shulman, D. W. MacGlashan, Jr., K. Pyne, V. S. Harvey, S. J. Galli, and L. M. Lichtenstein 2965 Lipid Bodies: Cytoplasmic Organelles Important to Arachidonate Metabolism in Macrophages and Mast Cells

Continued on page 6

Continued from page 5

- S. J. Ackerman, D. A. Loegering, P. Venge, I. Olsson, J. B. Harley, A. S. Fauci, and G. J. Gleich 2977 Distinctive Cationic Proteins of the Human Eosinophil Granule: Major Basic Protein, Eosinophil Cationic Protein, and Eosinophil-derived Neurotoxin
- A. F. López, N. A. Nicola, A. W. Burgess, D. Metcalf, F. L. Battye, W. A. Sewell, and M. Vadas 2983 Activation of Granulocyte Cytotoxic Function by Purified Mouse Colony-stimulating Factors
- M. Honda, T. Yoshimura, T. Watanabe, and H. Hayashi 2989 Chemotactic Macrophage Subpopulations Defined by Macrophage Chemotactic Factors from Delayed Hypersensitivity Reaction Sites
- M. A. Cremer, A. D. Hernandez, A. S. Townes, J. M. Stuart, and A. H. Kang 2995 Collagen-induced Arthritis in Rats. Antigen-specific Suppression of Arthritis and Immunity by Intravenously Injected Native Type II Collagen
- H. L. Spiegelberg, J. M. Plummer, J. Ruedi, L. F. Thompson, M. H. Mellon, and R. S. Zeiger 3001 Lack of Pokeweed Mitogen-induced IgE Formation *In Vitro* by Human Peripheral Blood Mononuclear Cells: Detection of Cross-reacting Idiotypic Determinants on Polyclonal Ig by Antibodies to a Single IgE Myeloma Protein

---

#### MICROBIAL IMMUNOLOGY

---

- C. R. Lissner, R. N. Swanson, and A. D. O'Brien 3006 Genetic Control of the Innate Resistance of Mice to *Salmonella typhimurium*: Expression of the *Ity* Gene in Peritoneal and Splenic Macrophages Isolated *In Vitro*
- R. N. Swanson and A. D. O'Brien 3014 Genetic Control of the Innate Resistance of Mice to *Salmonella typhimurium*: *Ity* Gene Is Expressed *In Vivo* by 24 Hours after Infection
- M. W. Stinson, R. J. Nisengard, M. Neiders, and B. Albini 3021 Serology and Tissue Lesions in Rabbits Immunized with *Streptococcus mutans*
- J. J. Wirth and F. Kierszenbaum 3028 Modulatory Effect of Guanosine-3':5' Cyclic Monophosphate on Macrophage Susceptibility to *Trypanosoma cruzi* Infection
- M. K. Selgrade, Y.-S. Huang, J. A. Graham, C.-H. Huang, and P. C. Hu 3032 Humoral Antibody Response to Individual Viral Proteins after Murine Cytomegalovirus Infection
- D. L. Ewert, O. Vainio, and M. S. Halpern 3036 Increased Endogenous Retroviral Gene Expression Is a Consequence of Lymphocyte Activation
- C. K. Grant, B. J. Ernisse, O. Jarrett, and F. R. Jones 3042 Feline Leukemia Virus Envelope gp70 of Subgroups B and C Defined by Monoclonal Antibodies with Cytotoxic and Neutralizing Functions

---

#### MOLECULAR GENETICS

---

- S. Jones, Y.-W. Chen, P. Isakson, J. Layton, E. Pure, C. Word, P. H. Kramer, P. Tucker, and E. S. Vitetta 3049 Effect of T Cell-derived Lymphokines Containing B Cell Differentiation Factor(s) for IgG (BCDF $\gamma$ ) on  $\gamma$ -Specific mRNA in Murine B Cells
- E. K. Wakeland and B. R. Darby 3052 Recombination and Mutation of Class II Histocompatibility Genes in Wild Mice

---

#### TUMOR IMMUNOLOGY

---

- A. L. Tutt, F. K. Stevenson, J. L. Smith, and G. T. Stevenson 3058 Antibodies against Urinary Light Chain Idiotypes as Agents for Detection and Destruction of Human Neoplastic B Lymphocytes
- T. F. Zipf, G. J. Lauzon, and B. M. Longenecker 3064 A Monoclonal Antibody Detecting a 39,000 m.w. Molecule that Is Present on B Lymphocytes and Chronic Lymphocytic Leukemia Cells but Is Rare on Acute Lymphocytic Leukemia Blasts
- A. Rearden, D. A. Nachtsheim, D. M. Frisman, P. Chiu, D. A. Elmajian, and S. M. Baird 3073 Altered Cell Surface Antigen Expression in Bladder Carcinoma Detected by a New Hemagglutinating Monoclonal Antibody
- W. R. Green 3078 Cell-Surface Expression of Cytotoxic T Lymphocyte-defined, AKR/Gross Leukemia Virus-associated Tumor Antigens by Normal AKR.H-2<sup>b</sup> Splenic B Cells
- M. Akiyama, M. A. Bean, K. Sadamoto, Y. Takahashi, and V. Brankovan 3085 Suppression of the Responsiveness of Lymphocytes from Cancer Patients Triggered by Co-culture with Autologous Tumor-derived Cells

Continued on page 7

*Continued from page 6*

<b>M. Colombatti, M. Nabholz, O. Gros, and C. Bron</b>	<b>3091</b>	Selective Killing of Target Cells by Antibody-Ricin A Chain or Antibody-Gelolin Hybrid Molecules: Comparison of Cytotoxic Potency and Use in Immunoselection Procedures
<b>Obituary</b>	<b>3096</b>	
<b>Announcements</b>	<b>3098</b>	
<b>Erratum</b>	<b>3102</b>	
<b>Author Index</b>	<b>3107</b>	
<b>Ad Hoc Reviewers</b>	<b>3109</b>	
<b>Author Index to Volume 131</b>	<b>3112</b>	
<b>Subject Index to Volume 131</b>	<b>3119</b>	