



TRADE IN ANY FLOW CYTOMETER FOR  
UP TO 25% OFF OF CYTEK PRODUCTS



TRADE  
IN  
TRADE  
UP

LEARN MORE



*The Journal of*  
**Immunology**

**135 (4)**

*J Immunol* 1985; 135:2237-2903; ;  
<http://www.jimmunol.org/content/135/4.citation>

This information is current as  
of October 17, 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

- |  |      |   |
|--|------|---|
| P. Wassmer, C. Chan, L. Lögdberg, and E. M. Shevach  | 2237 | Role of the L3T4 Antigen in T Cell Activation. II. Inhibition of T Cell Activation by Monoclonal Anti-L3T4 Antibodies in the Absence of Accessory Cells |
| R. DeKruyff, C. Clayberger, H. Cantor, and M. E. Dorf  | 2243 | Activation Requirements of Cloned Inducer T Cells. I. Differential Inhibition by Anti-L3T4 or Anti-I-A Is Determined by the Accessory Cell Population   |
| J. M. Williams, D. DeLoria, J. A. Hansen, C. A. Dinarello, R. Loertscher, H. M. Shapiro, and T. B. Strom | 2249 | The Events of Primary T Cell Activation Can Be Staged by Use of Sepharose-Bound Anti-T3 (64.1) Monoclonal Antibody and Purified Interleukin 1           |
| D. N. Shapiro, B. S. Adams, and J. E. Niederhuber  | 2256 | Antigen-Specific T Cell Activation Results in an Increase in Cytoplasmic Free Calcium   |
| A. Truneh, F. Albert, P. Golstein, and A.-M. Schmitt-Verhulst  | 2262 | Calcium Ionophore Plus Phorbol Ester Can Substitute for Antigen in the Induction of Cytolytic T Lymphocytes from Specifically Primed Precursors         |
| M. C. Turco, M. DeFelice, L. Corbo, G. Morrone, R. Metelsmann, S. Ferrone, and S. Venuta                 | 2268 | Regulatory Role of a Monomorphic Determinant of HLA Class I Antigens in T Cell Proliferation  |
| K. S. Zier and A. R. Pickard   | 2274 | Presentation of Class I Antigens on T Cells Can Induce the Generation of Antigen-Specific CTL   |
| W. F. C. Rigby, R. J. Noelle, K. Krause, and M. W. Fanger  | 2279 | The Effects of 1,25-Dihydroxyvitamin D <sub>3</sub> on Human T Lymphocyte Activation and Proliferation: A Cell Cycle Analysis                           |
| D. C. Flyer, S. J. Burakoff, and D. V. Faller  | 2287 | Retrovirus-Induced Changes in Major Histocompatibility Complex Antigen Expression Influence Susceptibility to Lysis by Cytotoxic T Lymphocytes          |
| E. B. Jacobson, B. Xue, M.-A. J. O'Neill, G. W. Siskind, B. Pernis, and G. J. Thorbecke                  | 2293 | Physiology of IgD. V. Enhancement of Antibody Responses In Vivo by Allo Anti-IgD Is Due Primarily to an Indirect Effect on B Cells                      |
| G. K. Reid and D. G. Osmond  | 2299 | B Lymphocyte Production in the Bone Marrow of Mice with X-Linked Immunodeficiency ( $\chi$ id)  |
| C. E. Grossi, A. Velardi, and M. D. Cooper   | 2303 | Postnatal Liver Hemopoiesis in Mice: Generation of pre-B Cells, Granulocytes, and Erythrocytes in Discrete Colonies                                     |

Continued on page 4

### Announcement of Changes in Publishing Schedule and Rates for The Journal of Immunology

As of January 1, 1986, the following changes will become effective:

The Journal of Immunology will publish twice each month, with 12 issues per volume and two volumes per year.

Subscriptions for domestic members of the American Association of Immunologists will be \$75 per year; for foreign members, \$75 per year plus postal charges of \$55. Nonmember subscriptions for U.S. institutions will be \$170 per year; foreign institutions, \$170 plus postal charges of \$55. Nonmember personal subscriptions will be \$150 per year; nonmember personal foreign subscriptions will be \$150 per year plus postal charges of \$55.

Subscriptions for domestic students will be \$36 per year; for foreign students, \$36 per year plus postal charges of \$55.

Single copies will be \$8 each. Foreign postage will be an additional \$3 per single copy.

Page charges to authors will be \$66 per page.

THE JOURNAL OF IMMUNOLOGY (ISSN 0022-1767) is published bimonthly by The American Association of Immunologists, 3770 Tansy Street, San Diego, CA 92121. Second class postage paid at Baltimore, MD and at additional mailing offices. POSTMASTER: Send address changes (Form 3579) to The Journal of Immunology, 428 E. Preston St., Baltimore, MD 21202. Indexed by *Current Contents* and *Index Medicus*. Subscription rates \$150 (\$205 foreign); institutions \$170 (\$225 foreign); students \$36 (\$91 foreign); single copy \$8 (\$11 foreign). Copyright © 1985 by The American Association of Immunologists.

Continued from page 3

- W. Ptak, M. Bereta, M. Ptak, G. M. Iverson, and D. R. Green 2312 Suppression and Contrasuppression in the Induction of Contact Sensitivity by the Administration of CellBound Antigen-Antibody Complexes
- M.-P. Schutze, C. Leclerc, M. Jolivet, F. Audibert, and L. Chedid 2319 Carrier-Induced Epitopic Suppression, A Major Issue for Future Synthetic Vaccines
- W. J. Wallis, P. G. Beatty, H. D. Ochs, and J. M. Harlan 2323 Human Monocyte Adherence to Cultured Vascular Endothelium: Monoclonal Antibody-Defined Mechanisms

---

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

---

- J. A. Ledbetter, P. J. Martin, C. E. Spooner, D. Wofsy, T. T. Tsu, P. G. Beatty, and P. Gladstone 2331 Antibodies to Tp67 and Tp44 Augment and Sustain Proliferation Responses of Activated T Cells
- W. E. J. Weber, W. A. Buurman, M. M. P. P. Vandermeeren, and J. C. M. Raus 2337 Activation through CD3 Molecule Leads to Clonal Expansion of all Human Peripheral Blood T Lymphocytes: Functional Analysis of Clonally Expanded Cells
- N. Isakov, R. C. Bleackley, J. Shaw, and A. Altman 2343 The Tumor Promoter Teleocidin Induces IL 2 Receptor Expression and IL 2-Independent Proliferation of Human Peripheral Blood T Cells
- H. Seki, Y. Ueno, K. Taga, A. Matsuda, T. Miyawaki, and N. Taniguchi 2351 Mode of In Vitro Augmentation of Natural Killer Cell Activity by Recombinant Human Interleukin 2: A Comparative Study of Leu-11<sup>+</sup> and Leu-11<sup>-</sup> Cell Populations in Cord Blood and Adult Peripheral Blood
- J. L. Nelson, F. A. Nardella, and M. Mannik 2357 Competition between Antigen and Anti-Idiotypes for Rheumatoid Factors
- P. Åman, J. Gordon, N. Lewin, M. Nordström, B. Ehlin-Henriksson, G. Klein, and A. Carlstenson 2362 Surface Marker Characterization of EBV Target Cells in Normal Blood and Tonsil B Lymphocyte Populations
- R. M. Lavker and N. M. Schechter 2368 Cutaneous Mast Cell Depletion Results from Topical Corticosteroid Usage
- H. W. Murray, R. A. Gellene, D. M. Libby, C. D. Rothermel, and B. Y. Rubin 2374 Activation of Tissue Macrophages from AIDS Patients: In Vitro Response of AIDS Alveolar Macrophages to Lymphokines and Interferon- $\gamma$
- A.-M. Francoeur, C. L. Peebles, K. J. Heckman, J. C. Lee, and E. M. Tan 2378 Identification of Ribosomal Protein Autoantigens
- J. Rauch, H. Massicotte, and H. Tannenbaum 2385 Specific and Shared Idiotypes Found on Hybridoma Anti-DNA Autoantibodies Derived from Rheumatoid Arthritis and Systemic Lupus Erythematosus Patients
- R. Hohlfeld, B. Conti-Tronconi, I. Kalies, J. Bertrams, and K. V. Toyka 2393 Genetic Restriction of Autoreactive Acetylcholine Receptor-Specific T Lymphocytes in Myasthenia Gravis
- K. Kamata, L. G. Baird, M. E. Erikson, A. B. Collins, and R. T. McCluskey 2400 Characterization of Antigens and Antibody Specificities Involved in Heymann Nephritis
- G. Camussi, J. R. Brentjens, B. Noble, D. Kerjaschki, F. Malavasi, O. A. Roholt, M. G. Farquhar, and G. Andres 2409 Antibody-Induced Redistribution of Heymann Antigen on the Surface of Cultured Glomerular Visceral Epithelial Cells: Possible Role in the Pathogenesis of Heymann Glomerulonephritis
- J. D. Mountz, J. F. Mushinski, H. R. Smith, D. M. Klinman, and A. D. Steinberg 2417 Modulation of *c-myb* Transcription in Autoimmune Disease by Cyclophosphamide
- J. L. Davignon, R. C. Budd, R. Ceredig, P. F. Piguet, H. R. MacDonald, J. C. Cerottini, P. Vassalli, and S. Izui 2423 Functional Analysis of T Cell Subsets from Mice Bearing the *lpr* Gene
- R. Raghunathan, T. M. Mundy, J. Faust, and S. Misra 2429 Allogeneic Leukocyte and Germ Cell-Induced Murine Immunodeficiency
- K. L. McCoy, P. J. Baker, T. R. Malek, and T. M. Chused 2432 Enlargement of Lyt-2-Positive T Cells Is Associated with Functional Impairment and Autoimmune Hemolytic Anemia in New Zealand Black Mice
- K. L. McCoy, P. J. Baker, P. W. Stashak, and T. M. Chused 2438 Two Defects in Old New Zealand Black Mice Are Involved in the Loss of Low-Dose Paralysis to Type III Pneumococcal Polysaccharide

Continued on page 5

Continued from page 4

- P. H. Wooley, H. S. Luthra, M. M. Griffiths, J. M. Stuart, A. Huse, and C. S. David 2443 Type II Collagen-Induced Arthritis in Mice. IV. Variations in Immunogenetic Regulation Provide Evidence for Multiple Arthritogenic Epitopes on the Collagen Molecule
- G. Krömer, R. S. Sundick, K. Schauenstein, K. Hála, and G. Wick 2452 Analysis of Lymphocytes Infiltrating the Thyroid Gland of Obese Strain Chickens
- G. Krömer, K. Schauenstein, N. Neu, K. Stricker, and G. Wick 2458 In Vitro T Cell Hyperreactivity in Obese Strain (OS) Chickens Is Due to a Defect in Nonspecific Suppressor Mechanism(s).

---

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

---

- J. W. L. Hooton, C. Gibbs, and V. Paetkau 2464 Interaction of Interleukin 2 with Cells: Quantitative Analysis of Effects
- N. Arima, Y. Daitoku, S. Hidaka, H. Tanaka, and T. Katsuki 2474 Interleukin 2 Acts Directly on a Tac-Positive Cloned B Cell Line Established From a Patient with Adult T Cell Leukemia
- J. C. Reed, W. C. Greene, R. G. Hoover, and P. C. Nowell 2478 Monoclonal Antibody OKT11A Inhibits and Recombinant Interleukin 2 (IL 2) Augments Expression of IL 2 Receptors at a Pretranslation Level
- J. E. Talmadge, R. B. Herberman, M. A. Chirigos, A. E. Maluish, M. A. Schneider, J. S. Adams, H. Phillips, G. B. Thurman, L. Varesio, C. Long, R. K. Oldham, and R. H. Wiltout 2483 Hyporesponsiveness to Augmentation of Murine Natural Killer Cell Activity in Different Anatomical Compartments by Multiple Injections of Various Immunomodulators including Recombinant Interferons and Interleukin 2
- G. E. Nedwin, L. P. Svedersky, T. S. Bringman, M. A. Palladino, Jr., and D. V. Goeddel 2492 Effect of Interleukin 2, Interferon- $\gamma$ , and Mitogens on the Production of Tumor Necrosis Factors  $\alpha$  and  $\beta$
- D. J. Anderson and R. S. Berkowitz 2498 Interferon- $\gamma$  Enhances Expression of Class I MHC Antigens in the Weakly HLA<sup>+</sup> Human Choriocarcinoma Cell Line BeWo but Does Not Induce MHC Expression in the HLA<sup>-</sup> Choriocarcinoma Cell Line Jar
- H. E. Broxmeyer, S. Cooper, B. Y. Rubin, and M. W. Taylor 2502 The Synergistic Influence of Human Interferon- $\gamma$  and Interferon- $\alpha$  on Suppression of Hematopoietic Progenitor Cells Is Additive with the Enhanced Sensitivity of These Cells to Inhibition by Interferons at Low Oxygen Tension In Vitro
- E. L. Raefsky, L. C. Platanius, N. C. Zoumbos, and N. S. Young 2507 Studies of Interferon as a Regulator of Hematopoietic Cell Proliferation
- J. J. Mond, F. D. Finkelman, C. Sarma, J. Ohara, and S. Serate 2513 Recombinant Interferon- $\gamma$  Inhibits the B Cell Proliferative Response Stimulated by Soluble but not by Sepharose-Bound Anti-Immunoglobulin Antibody
- J. Ohara, S. Lahet, J. Inman, and W. E. Paul 2518 Partial Purification of Murine B Cell Stimulatory Factor (BSF)-1
- M. J. Atkinson, D. A. Bell, and S. K. Singhal 2524 A Naturally Occurring Polyclonal B Cell Activator of Normal and Autoantibody Responses
- Y. Takahama, S. Ono, Y. Hara, S.-i. Hayashi, K. Dobashi, and T. Hamaoka 2534 Role of *N*-Acetyl-D-Galactosamine Residue on B151K12-Derived T Cell-Replacing Factor (B151-TRF) Molecule in B Cell-Receptor Binding and -Stimulating Activity
- B. Kleine and A. Coutinho 2541 Functional Recognition of Bacterial Mitogens by B Lymphoma Cells: Reactivity of WEHI 279.1 to Lipopolysaccharide and Selection of Nonreactive Variants
- S. W. Vukajlovich and D. C. Morrison 2546 Activation of Murine Spleen Cells by Lipid A: Negative Modulation of Lipid A Mitogenic Activity by O-Antigen Polysaccharide
- C. E. Taylor and P. J. Baker 2551 Production of Soluble Suppressor Factor by Spleen Cells from Mice Immunized with Type III Pneumococcal Polysaccharide
- M. Noguchi, M. Ogasawara, K. Iwabuchi, K. Ogasawara, T. Ishihara, R. A. Good, K. Morikawa, and K. Onoé 2557 Recipient Micro-environment Does Not Dictate the Igh-V Restriction Specificity of T Cell Suppressor Inducer Factor (TsiF) from Allogeneic Bone Marrow Chimera in Mice
- F. E. Dewhirst, P. P. Stashenko, J. E. Mole, and T. Tsurumachi 2562 Purification and Partial Sequence of Human Osteoclast-Activating Factor: Identity with Interleukin  $\beta$
- M. Rola-Pleszczynski, D. Bolduc, and S. St-Pierre 2569 The Effects of Vasoactive Intestinal Peptide on Human Natural Killer Cell Function

Continued on page 6



---

**IMMUNOCHEMISTRY**


---

- A. Rinfret, C. Horne, K. J. Dorrington, and M. Klein 2574 Noncovalent Association of Heavy and Light Chains of Human Immunoglobulins. IV. The Roles of the C<sub>H</sub> 1 and C<sub>L</sub> Domains in Idiotypic Expression
- T. V. Tittle, A. Mawle, and M. Cohn 2582 Immunogenicity of a Synthetic Glucoyl- $\alpha$ (1,3)-Glucoyl Protein Conjugate
- B. Åkerström, T. Brodin, K. Reis, and L. Björck 2589 Protein G: A Powerful Tool for Binding and Detection of Monoclonal and Polyclonal Antibodies
- G. Burdick and W. Emlen 2593 Effect of Antibody Excess on the Size, Stoichiometry, and DNase Resistance of DNA anti-DNA Immune Complexes
- R. H. Schwartz, B. S. Fox, E. Fraga, C. Chen, and B. Singh 2598 The T Lymphocyte Response to Cytochrome *c*. V. Determination of the Minimal Peptide Size Required for Stimulation of T Cell Clones and Assessment of the Contribution of Each Residue Beyond This Size to Antigenic Potency
- F. R. Carbone and Y. Paterson 2609 Monoclonal Antibodies to Horse Cytochrome *c* Expressing Four Distinct Idiotypes Distribute among Two Sites on the Native Protein
- J. M. Boggs, G. A. Hashim, E. D. Day, and M. A. Moscarello 2617 Lipid-Induced Recognition of a Conformational Determinant (Residues 65–83) in Myelin Basic Protein
- K. Ogata, Y. Ogata, R. M. Nakamura, and E. M. Tan 2623 Purification and N-Terminal Amino Acid Sequence of Proliferating Cell Nuclear Antigen (PCNA)/Cyclin and Development of ELISA for Anti-PCNA Antibodies
- I. Berkower, H. Kawamura, L. A. Matis, and J. A. Berzofsky 2628 T Cell Clones to Two Major T Cell Epitopes of Myoglobin: Effect of *I-A/I-E* Restriction on Epitope Dominance
- W. H. Mark, S. Kimura, and U. Hämmerling 2635 Biochemical Characterization of Murine Lymphoid Alloantigen Ly-m20.2, a Cell Surface Marker Controlled by a Gene Linked to the Mls Locus
- R. W. Karr, L. K. Lipman, C. Alber, F. Koning, and N. E. Goeken 2642 Ia Molecular Localization of the DRw52 Allodeterminant and the DRw52-like Determinants Defined by Monoclonal Antibodies
- B. Seligmann, H. L. Malech, D. A. Melnick, and J. I. Gallin 2647 An Antibody Binding to Human Neutrophils Demonstrates Antigenic Heterogeneity Detected Early in Myeloid Maturation which Correlates with Functional Heterogeneity of Mature Neutrophils
- L. H. Peterson and D. H. Conrad 2654 Fine Specificity, Structure, and Proteolytic Susceptibility of the Human Lymphocyte Receptor For IgE
- T. Seya, V. M. Holers, and J. P. Atkinson 2661 Purification and Functional Analysis of the Polymorphic Variants of the C3b/C4b Receptor (CR1) and Comparison with H, C4b-Binding Protein (C4bp), and Decay Accelerating Factor (DAF)
- R. Rothlein and T. A. Springer 2668 Complement Receptor Type Three-Dependent Degradation of Opsonized Erythrocytes by Mouse Macrophages
- L. F. Fries, G. M. Prince, T. A. Gaither, and M. M. Frank 2673 Factor I Co-factor Activity of CR<sub>1</sub> Overcomes the Protective Effect of IgG on Covalently Bound C3b Residues
- J. F. Bohnsack, J. J. O'Shea, T. Takahashi, and E. J. Brown 2680 Fibronectin-Enhanced Phagocytosis of an Alternative Pathway Activator by Human Culture-Derived Macrophages Is Mediated by the C4b/C3b Complement Receptor (CR1)
- M. Reynes, J. P. Aubert, J. H. M. Cohen, J. Audouin, V. Tricotet, J. Diebold, and M. D. Kazatchkine 2687 Human Follicular Dendritic Cells Express CR1, CR2, and CR3 Complement Receptor Antigens
- T. Kovacsovics, J. Tschopp, A. Kress, and H. Isliker 2695 Antibody-Independent Activation of C1, the First Component of Complement, By Cardiolipin
- M. B. Goldman, D. S. Becker, K. S. O'Rourke, and J. N. Goldman 2701 Enhancement by Cyclic AMP of Antibody-Induced Suppression of the Fourth Component of Complement

---

**IMMUNOPHARMACOLOGY**


---

- E. J. Goetzl, T. Chernov-Rogan, M. P. Cooke, F. Renold, and D. G. Payan 2707 Endogenous Somatostatin-Like Peptides of Rat Basophilic Leukemia Cells
- D. G. Sawutz, D. Sylvestre, and C. J. Homcy 2713 Characterization of Monoclonal Antibodies to the  $\beta$ -Adrenergic Antagonist Alprenolol as Models of the Receptor Binding Site
- J.-L. Robin, D. C. Seldin, K. F. Austen, and R. A. Lewis 2719 Regulation of Mediator Release from Mouse Bone Marrow-Derived Mast Cells by Glucocorticoids

Continued on page 7

Continued from page 6

- P. Jardieu, K. Moore, C. Martens, and K. Ishizaka 2727 Relationship among IgE-Binding Factors with Various Molecular Weights
- L. Håkansson and P. Venge 2735 The Combined Action of Hyaluronic Acid and Fibronectin Stimulates Neutrophil Migration
- D. L. Hamilos and H. J. Wedner 2740 The Role of Glutathione in Lymphocyte Activation. I. Comparison of Inhibitory Effects of Buthionine Sulfoximine and 2-Cyclohexene-1-One by Nuclear Size Transformation
- F. Bussolino, M. Aglietta, F. Sanavio, A. Stacchini, D. Lauri, and G. Camussi 2748 Alkyl-Ether Phosphoglycerides Influence Calcium Fluxes into Human Endothelial Cells
- M. I. Luster, A. N. Tucker, H. T. Hayes, O. J. Pung, T. Burka, R. McMillan, and T. Eling 2754 Immunosuppressive Effects of Benzidine in Mice: Evidence of Alterations in Arachidonic Acid Metabolism
- L. B. Schwartz, T. R. Bradford, B. H. Littman, and B. U. Wintroub 2762 The Fibrinogenolytic Activity of Purified Tryptase from Human Lung Mast Cells

---

### MICROBIAL IMMUNOLOGY

---

- T. M. Aune, G. L. Freeman, Jr., and D. G. Colley 2768 Production of the Lymphokine Soluble Immune Response Suppressor (SIRS) during Chronic Experimental Schistosomiasis *Mansoni*
- R. T. Hazdai, F. Levi-Schaffer, V. Brenner, S. Horowitz, Z. Eshhar, and R. Arnon 2772 Protective Monoclonal Antibody against *Schistosoma mansoni*: Antigen Isolation, Characterization and Suitability for Active Immunization
- J. Khalife, M. Capron, J.-M. Grzych, H. Bazin, and A. Capron 2780 Fc $\gamma$  Receptors on Rat Eosinophils: Isotype-Dependent Cell Activation
- D. M. Mosser and P. J. Edelson 2785 The Mouse Macrophage Receptor For C3bi (CR3) Is a Major Mechanism in the Phagocytosis of *Leishmania* Promastigotes
- F. Zavala, A. Masuda, P. M. Graves, V. Nussenzweig, and R. S. Nussenzweig 2790 Ubiquity of the Repetitive Epitope of the CS Protein in Different Isolates of Human Malaria Parasites
- T. B. Nutman, A. S. Withers, and E. A. Ottesen 2794 In Vitro Parasite Antigen-Induced Antibody Responses in Human Helminth Infections
- B. Fleischer, H. Becht, and R. Rott 2800 Recognition of Viral Antigens by Human Influenza A Virus-Specific T Lymphocyte Clones
- J. J. Schlesinger, M. W. Brandriss, and E. E. Walsh 2805 Protection against 17D Yellow Fever Encephalitis in Mice by Passive Transfer of Monoclonal Antibodies to the Nonstructural Glycoprotein gp48 and by Active Immunization with gp48
- R. A. Insel, A. Kittelberger, and P. Anderson 2810 Isoelectric Focusing of Human Antibody to the *Haemophilus influenzae* b Capsular Polysaccharide: Restricted and Identical Spectrotypes in Adults
- M. B. Tompkins and W. A. F. Tompkins 2817 Stimulation of a Cell-Mediated Cytotoxic Response to FeLV-Induced T Cell Lymphomas in the Cat
- A. G. Douglas-Jones and J. D. Watson 2824 Immunity to Leprosy. II. Genetic Control of Murine T Cell Proliferative Responses to *Mycobacteria leprae*
- C. S. Pavia and C. J. Niederbuhl 2829 Adoptive Transfer of Anti-Syphilis Immunity with Lymphocytes from *Treponema pallidum*-Infected Guinea Pigs

---

### MOLECULAR BIOLOGY • MOLECULAR GENETICS

---

- E. P. Cowan, B. R. Jordan, and J. E. Coligan 2835 Molecular Cloning and DNA Sequence Analysis of Genes Encoding Cytotoxic T Lymphocyte-Defined HLA-A3 Subtypes: The E1 Subtype
- R. J. Graff, D. Martin-Morgan, and M. E. Kurtz 2842 Allograft Rejection-Defined Antigens of the *B2m,H-3* Region
- M. E. Kurtz, R. J. Graff, A. Adelman, D. Martin-Morgan, and R. E. Click 2847 CTL and Serologically Defined Antigens of *B2m,H-3* Region
- J. A. Sawicki, J. G. Frelinger, M. Palmer, D. A. Buck, B. Dietzschold, and P. J. Wettstein 2853 Identical RT1 Class II Molecules Are Expressed by Rat *RT1<sup>m</sup>* and *RT1<sup>c</sup>* Haplotypes
- R. Sitia, A. Rubartelli, H. Kikutani, U. Hämmerling, and J. Stavnezer 2859 The Regulation of Membrane-Bound and Secreted  $\alpha$ -Chain Biosynthesis during the Differentiation of the B Cell Lymphoma I.29

Continued on page 8

---

**TUMOR IMMUNOLOGY**


---

- |   |      |  |
|---|------|--|
| M. T. Lotze, Y. L. Matory, S. E. Ettinghausen, A. A. Rayner, S. O. Sharrow, C. A. Y. Seipp, M. C. Custer, and S. A. Rosenberg | 2865 | In Vivo Administration of Purified Human Interleukin 2. II. Half Life. Immunologic Effects and Expansion of Peripheral Lymphoid Cells In Vivo with Recombinant IL 2  |
| D. Kabelitz, K. Pfeffer, D. von Steldern, P. Bartmann, O. Brudler, C. Nerl, and H. Wagner                                     | 2876 | In Vitro Maturation of B Cells in Chronic Lymphocytic Leukemia. I. Synergistic Action of Phorbol Ester and Interleukin 2 in the Induction of Tac Antigen Expression and Interleukin 2 Responsiveness in Leukemic B Cells |
| J. Herman, C. A. Dinarello, M. C. Kew, and A. R. Rabson   | 2882 | The Role of Interleukin 1 (IL 1) in Tumor-NK Cell Interactions: Correction of Defective NK Cell Activity in Cancer Patients by Treating Target Cells with IL 1   |
| P. Giacomini, L. Imberti, A. Aguzzi, P. B. Fisher, G. Trinchieri, and S. Ferrone  | 2887 | Immunochemical Analysis of the Modulation of Human Melanoma-Associated Antigens by DNA Recombinant Immune Interferon   |
| S. Shu and S. A. Rosenberg  | 2895 | Adoptive Immunotherapy of a Newly Induced Sarcoma: Immunologic Characteristics of Effector Cells   |

---

**ERRATUM**


---

- |  |      |   |
|--|------|---|
| M. Dallman, R. L. Smith, and C. G. Fathman | 2904 | Type II Collagen-Reactive T Cell Clones from Mice with Collagen-Induced Arthritis |
| Announcements                              | 2905 |   |
| Author Index                               | 2909 |   |