



ARE YOU A
**SCIENTIFIC
REBEL?**

Unleash your true potential
with the new **CytoFLEX LX**
Flow Cytometer

DARE TO EXPLORE

**BECKMAN
COULTER**
Life Sciences



142 (10)

J Immunol 1989; 142:3353-3727; ;
<http://www.jimmunol.org/content/142/10.citation>

This information is current as
of February 21, 2018.

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

- R. Ceredig, J. Medveczky, and A. Skulimowski 3353 Mouse Fetal Thymus Lobes Cultured in IL-2 Generate CD3⁺, TCR- $\gamma\delta$ -Expressing CD4⁻/CD8⁺ and CD4⁻/CD8⁻ Cells
- C. M. Hawrylowicz, L. M. Duncan, R. C. Fuhlbrigge, and E. R. Unanue 3361 Regulation of Antigen Presentation. II. Anti-Ig and IL-2 Induce IL-1 Production by Murine Splenic B Cells
- C. Penit and F. Vasseur 3369 Cell Proliferation and Differentiation in the Fetal and Early Postnatal Mouse Thymus
- I. Screpanti, S. Morrone, D. Meco, A. Santoni, A. Gulino, R. Paolini, A. Crisanti, B. J. Mathieson, and L. Frati 3378 Steroid Sensitivity of Thymocyte Subpopulations during Intrathymic Differentiation. Effects of 17 β -Estradiol and Dexamethasone on Subsets Expressing T Cell Antigen Receptor or IL-2 Receptor
- S. O. Southern and R. W. Dutton 3384 A Role for Class I MHC Antigens in Responses of Activated B Lymphocytes
- P. M. Stuart, G. H. Cassell, and J. G. Woodward 3392 Induction of Class II MHC Antigen Expression in Macrophages by *Mycoplasma* Species

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- H. M. Georgiou and D. Bellgrau 3400 Thymus Transplantation and Disease Prevention in the Diabetes-Prone Bio-Breeding Rat
- S. P. Makker and J. J. Kanalas 3406 Course of Transplanted Heymann Nephritis Kidney in Normal Host: Implications for Mechanism of Proteinuria in Membranous Glomerulonephropathy
- S. Nagpal, K. N. Shanthi, R. Kori, H. Schroder, D. D. Metcalfe, and P. V. Subba Rao 3411 Induction of Allergen-Specific IgE and IgG Responses by Anti-idiotypic Antibodies
- D. M. Willerford, P. A. Hoffman, and W. M. Gallatin 3416 Expression of Lymphocyte Adhesion Receptors for High Endothelium in Primates: Anatomic Partitioning and Linkage to Activation
- B. Yankelevich, C. Knobloch, M. Nowicki, and G. Dennert 3423 A Novel Cell Type Responsible for Marrow Graft Rejection in Mice: T Cells with NK Phenotype Cause Acute Rejection of Marrow Grafts

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- R. Alam, J. B. Welter, P. A. Forsythe, M. A. Lett-Brown, and J. A. Grant 3431 Comparative Effect of Recombinant IL-1, -2, -3, -4, and -6, IFN- γ , Granulocyte-Macrophage-Colony Stimulating Factor, Tumor Necrosis Factor- α , and Histamine-Releasing Factors on the Secretion of Histamine from Basophils
- L. Filgueira, P. Groscurth, and M. Aguet 3436 Binding and Internalization of Gold-Labeled IFN- γ by Human Raji Cells
- L. Hültner, J. Moeller, E. Schmitt, G. Jäger, G. Reischbach, J. Ring, and P. Dörmer 3440 Thiol-Sensitive Mast Cell Lines Derived from Mouse Bone Marrow Respond to a Mast Cell Growth-Enhancing Activity Different from both IL-3 and IL-4
- J. Moeller, L. Hültner, E. Schmitt, and P. Dörmer 3447 Partial Purification of a Mast Cell Growth-Enhancing Activity and Its Separation from IL-3 and IL-4
- Y. Kawakami, M. C. Custer, S. A. Rosenberg, and M. T. Lotze 3452 IL-4 Regulates IL-2 Induction of Lymphokine-Activated Killer Activity from Human Lymphocytes

Continued on page 4

Continued from page 3

- S. Tsunawaki, M. Sporn, and C. Nathan 3462 Comparison of Transforming Growth Factor- β and a Macrophage-Deactivating Polypeptide from Tumor Cells. Differences in Antigenicity and Mechanism of Action
- C. T. Weaver, L. M. Duncan, and E. R. Unanue 3469 T Cell Induction of Macrophage IL-1 during Antigen Presentation. Characterization of a Lymphokine Mediator and Comparison of T_H1 and T_H2 Subsets

IMMUNOCHEMISTRY

- H. Kimura, M. Umeda, and D. M. Marcus 3477 Expression of a Cross-Reactive Idiotope on Naturally Occurring Murine Antibodies against 3-Fucosyllactosamine, Levan, and Dextran
- M. J. Lacy, M. A. Dombrink-Kurtzman, and E. W. Voss, Jr. 3482 Quantitative Analyses of Immune Network Components
- F. Martinon, F. Cornille, E. Gormard, M.-C. Fournie-Zaluski, J.-P. Abastado, B. P. Roques, and J.-P. Levy 3489 Two Epitopes and One Agreptope Map to a Single HLA-A2 Peptide Recognized by H-2-Restricted T Cells
- S. O. Sharrow, J. S. Arn, I. Stroynowski, L. Hood, and D. H. Sachs 3495 Epitope Clusters of Qa-2 Antigens Defined by a Panel of New Monoclonal Antibodies
- P. X. Xing, J. J. Tjandra, K. Reynolds, P. J. McLaughlin, D. F. J. Purcell, and I. F. C. McKenzie 3503 Reactivity of Anti-Human Milk Fat Globule Antibodies with Synthetic Peptides

IMMUNOPHARMACOLOGY

- C. Haslett, P. J. Jose, P. C. Giclas, T. J. Williams, and P. M. Henson 3510 Cessation of Neutrophil Influx in C5a-Induced Acute Experimental Arthritis Is Associated with Loss of Chemoattractant Activity from the Joint Space
- C. Kroegel, T. Yukawa, G. Dent, P. Venge, K. F. Chung, and P. J. Barnes 3518 Stimulation of Degranulation from Human Eosinophils by Platelet-Activating Factor
- S. M. MacDonald, R. P. Schleimer, A. Kagey-Sobotka, S. Gillis, and L. M. Lichtenstein 3527 Recombinant IL-3 Induces Histamine Release from Human Basophils
- M. S. O'Dorisio, B. T. Shannon, D. J. Fleshman, and L. B. Campolito 3533 Identification of High Affinity Receptors for Vasoactive Intestinal Peptide on Human Lymphocytes of B Cell Lineage
- B. Schleiffenbaum, R. Moser, M. Patarroyo, and J. Fehr 3537 The Cell Surface Glycoprotein Mac-1 (CD11b/CD18) Mediates Neutrophil Adhesion and Modulates Degranulation Independently of Its Quantitative Cell Surface Expression
- J. B. Stanley, R. M. Gorczynski, T. L. Delovitch, and G. B. Mills 3546 IL-2 Secretion Is Pertussis Toxin Sensitive in a T Lymphocyte Hybridoma
- S. M. Wahl, J. B. Allen, S. Gartner, J. M. Orenstein, M. Popovic, D. E. Chenoweth, L. O. Arthur, W. L. Farrar, and L. M. Wahl 3553 HIV-1 and Its Envelope Glycoprotein Down-Regulate Chemotactic Ligand Receptors and Chemotactic Function of Peripheral Blood Monocytes

Continued on page 5

MICROBIAL IMMUNOLOGY

- M. A. Beck and J. F. Sheridan 3560 Regulation of Lymphokine Response during Reinfection by Influenza Virus: Production of a Factor that Inhibits Lymphokine Activity
- V. F. De La Cruz, W. L. Maloy, L. H. Miller, M. F. Good, and T. F. McCutchan 3568 The Immunologic Significance of Variation within Malaria Circumsporozoite Protein Sequences
- P. C. Doherty, J. E. Allan, and I. A. Clark 3576 Tumor Necrosis Factor Inhibits the Development of Viral Meningitis or Induces Rapid Death Depending on the Severity of Inflammation at Time of Administration
- S. L. Hoffman, J. A. Berzofsky, D. Isenbarger, E. Zeltser, W. R. Majarian, M. Gross, and W. R. Ballou 3581 Immune Response Gene Regulation of Immunity to *Plasmodium berghei* Sporozoites and Circumsporozoite Protein Vaccines. Overcoming Genetic Restriction with Whole Organism and Subunit Vaccines
- H. J. Jennings, A. Gamian, F. Michon, and F. E. Ashton 3585 Unique Intermolecular Bactericidal Epitope Involving the Homosialopolysaccharide Capsule on the Cell Surface Group B *Neisseria meningitidis* and *Escherichia coli* K1
- F. Lynch, P. C. Doherty, and R. Ceredig 3592 Phenotypic and Functional Analysis of the Cellular Response in Regional Lymphoid Tissue during an Acute Virus Infection
- P. Mendez-Samperio, J. Lamb, G. Bothamley, P. Stanley, C. Ellis, and J. Ivanyi 3599 Molecular Study of the T Cell Repertoire in Family Contacts and Patients with Leprosy
- G. R. Olds, S. El Meneza, A. A. F. Mahmoud, and T. F. Kresina 3605 Differential Immunoregulation of Granulomatous Inflammation, Portal Hypertension, and Hepatic Fibrosis in Murine Schistosomiasis *Mansoni*
- T. J. Palker, T. J. Matthews, A. Langlois, M. E. Tanner, M. E. Martin, R. M. Scearce, J. E. Kim, J. A. Berzofsky, D. P. Bolognesi, and B. F. Haynes 3612 Polyvalent Human Immunodeficiency Virus Synthetic Immunogen Comprised of Envelope gp120 T Helper Cell Sites and B Cell Neutralization Epitopes
- R. Udonsangpetch, J. Carlsson, B. Wählén, G. Holmquist, L. S. Ozaki, A. Scherf, D. Mattei, O. Mercereau-Puijalon, S. Uni, M. Aikawa, K. Berzins, and P. Perlmann 3620 Reactivity of the Human Monoclonal Antibody 33G2 with Repeated Sequences of Three Distinct *Plasmodium falciparum* Antigens

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- H. Band, F. Hochstenbach, C. M. Parker, J. McLean, M. S. Krangel, and M. B. Brenner 3627 Expression of Human T Cell Receptor- $\gamma\delta$ Structural Forms
- R. de Waal Malefyt, B. Alarcon, H. Yssel, J. Sancho, A. Miyajima, C. P. Terhorst, H. Spits, and J. E. De Vries 3634 Introduction of T Cell Receptor (TCR)- α cDNA Has Differential Effects on TCR- $\gamma\delta$ /CD3 Expression by PEER and Lyon-1 Cells
- R. R. Hardy, C. E. Carmack, S. A. Shinton, R. J. Riblet, and K. Hayakawa 3643 A Single V_H Gene Is Utilized Predominantly in Anti-BrMRBC Hybridomas Derived from Purified Ly-1 B Cells. Definition of the V_H 11 Family
- T. Maeda, H. Sugiyama, Y. Tani, and S. Kishimoto 3652 The DJ_H Complex Remains Active in Recombination to V_H Segments after the Loss of μ -Chain Expression in μ -Positive Pre-B Cells
- A. Maffei, C. Perfetto, N. Ombrà, G. Del Pozzo, and J. Guardiola 3657 Transcriptional and Post-transcriptional Regulation of Human MHC Class II Genes Require the Synthesis of Short-Lived Proteins
- M. S. Perez and L. E. Walker 3662 Isolation and Characterization of a cDNA Encoding the KS1/4 Epithelial Carcinoma Marker
- L. E. Toothaker, A. J. Henjes, and J. J. Weis 3668 Variability of CR2 Gene Products Is Due to Alternative Exon Usage and Different CR2 Alleles
- N. Yuhki, G. F. Heidecker, and S. J. O'Brien 3676 Characterization of MHC cDNA Clones in the Domestic Cat. Diversity and Evolution of Class I Genes

Continued on page 6

Continued from page 5

- H. Yuuki, Y. Yoshikai, K. Kishihara, G. Matsuzaki, K. Ayukawa, and K. Nomoto 3683 The Expression and Sequences of T Cell Antigen Receptor β -Chain Genes in the Thymus at an Early Stage after Sublethal Irradiation

TUMOR IMMUNOLOGY

- A. Anichini, A. Mazzocchi, G. Fossati, and G. Parmiani 3692 Cytotoxic T Lymphocyte Clones from Peripheral Blood and from Tumor Site Detect Intratumor Heterogeneity of Melanoma Cells. Analysis of Specificity and Mechanisms of Interaction
- D. A. Chow and R. D. Bennet 3702 Low Natural Antibody and Low In Vivo Tumor Resistance in XID-Bearing B-Cell Deficient Mice
- C. L. Manyak, G. P. Norton, C. G. Lobe, R. C. Bleackley, H. K. Gershenfeld, I. L. Weissman, V. Kumar, N. H. Sigal, and G. C. Koo 3707 IL-2 Induces Expression of Serine Protease Enzymes and Genes in Natural Killer and Nonspecific T Killer Cells
- S. L. Topalian, D. Solomon, and S. A. Rosenberg 3714 Tumor-Specific Cytolysis by Lymphocytes Infiltrating Human Melanomas
- Letter to the Editor 3726
- Announcements 3728
- Erratum 3728
- Author Index 3729