

Luminex
complexity simplified.



**Simple, Compact, and
Affordable Cell Analysis.**
Muse[®] Cell Analyzer.

LEARN MORE >



136 (2)

J Immunol 1986; 136:361-745; ;
<http://www.jimmunol.org/content/136/2.citation>

This information is current as
of September 20, 2020.

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

COMMUNICATIONS

- | | | |
|--|-----|--|
| J. A. Hoxie, L. E. Flaherty, B. S. Haggarty, and J. L. Rackowski | 361 | Infection of T4 Lymphocytes by HTLV-III Does Not Require Expression of the OKT4 Epitope |
| J. S. Hunt and G. W. Wood | 364 | Interferon- γ Induces Class I HLA and β_2 -Microglobulin Expression by Human Amnion Cells |
| D. Zharhary and N. R. Klinman | 368 | A Selective Increase in the Generation of Phosphorylcholine-Specific B Cells Associated with Aging |

CELLULAR IMMUNOLOGY

- | | | |
|--|-----|---|
| N. Shastri, A. Miller, and E. E. Sercarz | 371 | Amino Acid Residues Distinct from the Determinant Region Can Profoundly Affect Activation of T Cells Clones by Related Antigens |
| J. R. Yannelli, J. A. Sullivan, G. L. Mandell, and V. H. Engelhard | 377 | Reorientation and Fusion of Cytotoxic T Lymphocyte Granules after Interaction with Target Cells as Determined by High Resolution Cinemicrography |
| C. J. Aldrich, R. N. Jenkins, and R. R. Rich | 383 | Clonal Analysis of the Anti-Qa-1 Cytotoxic T Lymphocyte Repertoire: Definition of the Qa-1 ^d and Qa-1 ^c Alloantigens and Cross-Reactivity with H-2 |
| J. D. Ashwell, C. Chen, and R. H. Schwartz | 389 | High Frequency and Nonrandom Distribution of Alloreactivity in T Cell Clones Selected for Recognition of Foreign Antigen in Association with Self Class II Molecules |
| H. Braley-Mullen | 396 | Requirements for Activation of Contrasuppressor T Cells by Type III Pneumococcal Polysaccharide |
| G. Pawelec, E. M. Schneider, and P. Wernet | 402 | Acquisition of Suppressive Activity and Natural Killer-like Cytotoxicity by Human Alloproliferative "Helper" T Cell Clones |
| J. B. Turpen and P. B. Smith | 412 | Analysis of Hemopoietic Lineage of Accessory Cells in the Developing Thymus of <i>Xenopus laevis</i> |
| K. Dorshkind | 422 | In Vitro Differentiation of B Lymphocytes from Primitive Hemopoietic Precursors Present in Long-Term Bone Marrow Cultures |
| D. DeLuca | 430 | IA-Positive Nonlymphoid Cells and T Cell Development in Murine Fetal Thymus Organ Cultures: Monoclonal Anti-IA Antibodies Inhibit the Development of T Cells |
| D. T. Umetsu, D. Katzen, H. H. Jabara, and R. S. Geha | 440 | Antigen Presentation by Human Dermal Fibroblasts: Activation of Resting T Lymphocytes |
| R. H. DeKruyff, H. Cantor, and M. E. Dorf | 446 | Activation Requirements of Cloned Inducer T Cells. II. The Failure of some Clones to Respond to Antigen Presented by Activated B Cells |
| S. Buus and O. Werdelin | 452 | A Group-Specific Inhibitor of Lysosomal Cysteine Proteinases Selectively Inhibits both Proteolytic Degradation and Presentation of the Antigen Dinitrophenyl-poly-L-lysine by Guinea Pig Accessory Cells to T Cells |
| S. Buus and O. Werdelin | 459 | Oligopeptide Antigens of the Angiotensin Lineage Compete for Presentation by Paraformaldehyde-Treated Accessory Cells to T Cells |
| A. A. Freitas, B. Rocha, and A. A. Coutinho | 466 | Two Major Classes of Mitogen-Reactive B Lymphocytes Defined by Life Span |
| A. A. Freitas, B. Rocha, and A. A. Coutinho | 470 | Life Span of B Lymphocytes: The Experimental Basis for Conflicting Results |

Continued on page 4

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- R. I. Fox, P. Chen, D. A. Carson, and S. Fong 477 Expression of a Cross-Reactive Idiotypic on Rheumatoid Factor in Patients with Sjögren's Syndrome
- L. Claesson-Welsh, A. Scheynius, U. Tjernlund, and P. A. Peterson 484 Cell Surface Expression of Invariant γ -Chain of Class II Histocompatibility Antigens in Human Skin
- T. J. Flotte and L. G. Baird 491 Immunoglobulin Light and Heavy Chain Isotypes in Skin Diseases: Restricted Distribution in Bullous Pemphigoid and Linear IgA Bullous Dermatitis
- M. F. Lipscomb, C. R. Lyons, G. Nunez, E. J. Ball, P. Stastny, W. Vial, V. Lem, J. Weissler, L. M. Miller, and G. B. Toews 497 Human Alveolar Macrophages: HLA-DR-Positive Macrophages that Are Poor Stimulators of a Primary Mixed Leukocyte Reaction
- J. H. Antin, S. G. Emerson, P. Martin, N. Gadol, and K. A. Ault 505 Leu-1⁺ (CD5⁺) B Cells: A Major Lymphoid Subpopulation in Human Fetal Spleen: Phenotypic and Functional Studies
- E. Beraud, T. Reshef, A. A. Vandembark, H. Offner, R. Friz, C.-H. J. Chou, D. Bernard, and I. R. Cohen 511 Experimental Autoimmune Encephalomyelitis Mediated by T Lymphocyte Lines: Genotype of Antigen-presenting Cells Influences Immunodominant Epitope of Basic Protein
- N. T. Potter, G. A. Hashim, and E. D. Day 516 Identification of an Antigenic Determinant within the Phylogenetically Conserved Triprolyl Region of Myelin Basic Protein
- A. Mathur and R. G. Lynch 521 Increased T γ and T μ Cells in BALB/c Mice with IgG and IgM Plasmacytomas and Hybridomas
- C. J. Kelly, R. Korngold, R. Mann, M. Clayman, T. Haverly, and E. G. Neilson 526 Spontaneous Interstitial Nephritis in kdkd Mice. II. Characterization of a Tubular Antigen-Specific, H-2K-restricted Lyt-2⁺ Effector T Cell that Mediates Destructive Tubulointerstitial Injury

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- B. Manger, A. Weiss, K. J. Hardy, and J. D. Stobo 532 A Transferrin Receptor Antibody Represents One Signal for the Induction of IL 2 Production by a Human T Cell Line
- L. LeClercq, J. C. Cambier, Z. Mishal, M. H. Julius, and J. Theze 539 Supernatant from a Cloned Helper T Cell Stimulates most Small Resting B Cells to Undergo Increased I-A Expression, Blastogenesis, and Progression through Cell Cycle
- J. B. Margolick, J. L. Ambrus, Jr., D. J. Volkman, and A. S. Fauci 546 Human T4⁺ Lymphocytes Produce a Phagocytosis-Inducing Factor (PIF) Distinct from Interferon- α and Interferon- γ
- J. D. Pfeifer, G. D. Wetzel, and R. W. Dutton 555 Partial Purification and Characterization of a Factor from a Cloned Thymic Epithelium Cell Line
- R. Fotedar, A. Severini, E. W. Holowachuk, C. S. Shiozawa, V. Paetkau, J. G. Kaplan, and E. Diener 562 Activation of Cation Transport by Lymphokines in B Cells without Induction of DNA Synthesis or Immunoglobulin Gene Transcription
- C.-L. Yu, D. Haskard, D. Cavender, and M. Ziff 569 Effects of Bacterial Lipopolysaccharide on the Binding of Lymphocytes to Endothelial Cell Monolayers
- P. Bobé, C. Kanellopoulos-Langevin, C. Bleux, and G. A. Voisin 574 Modulation of Mouse Anti-SRBC Antibody Responses by Placental Extracts. II. Antigen Specificity and Regulatory Role of B and T Cell Populations Affected by Two Distinct Placental Fractions

IMMUNOCHEMISTRY

- M. V. Seiden, R. Heuckeroth, B. Clevinger, S. McMillan, R. Lerner, and J. M. Davie 582 Hypervariable Region Peptides Variably Induce Specific Anti-Idiotypic Antibodies: An Approach to Determining Antigenic Dominance
- M. Baniyash, Z. Eshhar, and B. Rivnay 588 Relationships between Epitopes on IgE Recognized by Defined Monoclonal Antibodies and by the FC₂ Receptor on Basophils
- R. G. E. Palfree and U. Hämmerling 594 Biochemical Characterization of the Murine Activated Lymphocyte Alloantigen Ly-6E.1 Controlled by the Ly-6 Locus

Continued on page 5

Continued from page 4

- J. Borst, A. W. Boylston, J. E. de Vries, and H. Spits 601 Human T Cell Lines Differing in Phenotype and Specificity Are Reactive with the Same Anti-Idiotypic Antibody
- E. D. Rabinovsky and T.-J. Yang 609 Production and Characterization of a Bovine T Cell-Specific Monoclonal Antibody Identifying a Mature Differentiation Antigen

IMMUNOPHARMACOLOGY

- M. Kurosawa and C. W. Parker 616 A Phosphatidylinositol Kinase in Rat Mast Cell Granules
- J. Rivera, J. M. Mullins, K. Furuchi, and C. Isersky 623 Endocytosis of Aggregated Immunoglobulin G by Rat Basophilic Leukemia Cells: Rate, Extent, and Effects on the Endocytosis of Immunoglobulin E
- J. Nath and J. I. Gallin 628 Ionic Requirements and Subcellular Localization of Tubulin Tyrosinolation in Human Polymorphonuclear Leukocytes
- S. J. Weiss, J. T. Curnutte, and S. Regiani 636 Neutrophil-Mediated Solubilization of the Subendothelial Matrix: Oxidative and Nonoxidative Mechanisms of Proteolysis Used by Normal and Chronic Granulomatous Disease Phagocytes
- J. D. Williams, J.-L. Robin, R. A. Lewis, T. H. Lee, and K. F. Austen 642 Generation of Leukotrienes by Human Monocytes Pretreated with Cytochalasin B and Stimulated with Formyl-Methionyl-Leucyl-Phenylalanine
- R. P. Schleimer and B. K. Rutledge 649 Cultured Human Vascular Endothelial Cells Acquire Adhesiveness for Neutrophils after Stimulation with Interleukin 1, Endotoxin, and Tumor-Promoting Phorbol Diesters

MICROBIAL IMMUNOLOGY

- M. D. Sadick, R. M. Locksley, C. Tubbs, and H. V. Raff 655 Murine Cutaneous Leishmaniasis: Resistance Correlates with the Capacity to Generate Interferon- γ in Response to Leishmania Antigens In Vitro
- F. Kierszenbaum, F. Villalta, and P.-C. Tai 662 Role of Inflammatory Cells in Chagas' Disease. III. Kinetics of Human Eosinophil Activation upon Interaction with Parasites (*Trypanosoma cruzi*)
- R. A. Strugnell, W. F. Williams, G. Raines, J. S. Pedersen, L. P. Drummond, B. H. Toh, and S. Faine 667 Autoantibodies to Creatine Kinase in Rabbits Infected with *Treponema pallidum*
- D. L. Granger, J. R. Perfect, and D. T. Durack 672 Macrophage-Mediated Fungistasis In Vitro: Requirements for Intracellular and Extracellular Cytotoxicity
- S. G. Norley, L. Huang, and B. T. Rouse 681 Targeting of Drug Loaded Immunoliposomes to Herpes Simplex Virus Infected Corneal Cells: An Effective Means of Inhibiting Virus Replication In Vitro
- G. E. Grau, D. Morrow, S. Izui, and P. H. Lambert 686 Pathogenesis of the Delayed Phase of Rauscher Virus-Induced Thrombocytopenia
- E. Celis, R. W. Miller, T. J. Wiktor, B. Dietzschold, and H. Koprowski 692 Isolation and Characterization of Human T Cell Lines and Clones Reactive to Rabies Virus: Antigen Specificity and Production of Interferon- γ
- J. A. Byrne and M. B. A. Oldstone 698 Biology of Cloned Cytotoxic T Lymphocytes Specific For Lymphocytic Choriomeningitis Virus. VI. Migration and Activity In Vivo in Acute and Persistent Infection
- W. C. Koff and M. A. Dunegan 705 Neuroendocrine Hormones Suppress Macrophage-Mediated Lysis of Herpes Simplex Virus-Infected Cells
- K. A. Joiner, N. Grossman, M. Schmetz, and L. Leive 710 C3 Binds Preferentially to Long-Chain Lipopolysaccharide during Alternative Pathway Activation by *Salmonella montevideo*

MOLECULAR GENETICS

- J. Ghiso, A. Solomon, and B. Frangione 716 Association of Human λ Light Chain V/J/C Segments: Serologic Analysis and Primary Structure of the λ VI Bence Jones Protein THO

Continued on page 6

TUMOR IMMUNOLOGY

P. V. O'Donnell and F. Traganos	720	Changes in Thymocyte Proliferation at Different Stages of Viral Leukemogenesis in AKR Mice
R. O. Dillman, D. E. Johnson, and D. L. Shawler	728	Immune Interferon Modulation of In Vitro Murine Anti-Human T Cell Monoclonal Antibody-Mediated Cytotoxicity
E. Lotzová, C. A. Savary, M. Lowlachi, and D. M. Murasko	732	Cytotoxic and Morphologic Profile of Endogenous and Pyrimidinone-Activated Murine NK Cells
P. Q. Patek, Y. Lin, J. L. Collins, and M. Cohn	741	In Vivo or In Vitro Selection for Resistance to Natural Cytotoxic Cell Lysis Selects for Variants with Increased Tumorigenicity
Announcements	746	
Author Index	747	