

BULK ANTIBODIES

for *in vivo*

RESEARCH

α -CD4

α -CD8

α -CD25

α -NK1.1

α -Ly6G

Discover More

BioCell



The Journal of
Immunology

139 (1)

J Immunol 1987; 139:1-318; ;

<http://www.jimmunol.org/content/139/1.citation>

This information is current as
of January 18, 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

PRESIDENTIAL ADDRESS

- W. E. Paul 1 Between Two Centuries: Specificity and Regulation in Immunology

COMMUNICATION

- M. W. Vermeulen, J. R. David, and H. G. Remold 7 Differential mRNA in Human Macrophages Activated by Interferon- γ and Muramyl Dipeptide

CELLULAR IMMUNOLOGY

- C. M. Snapper and W. E. Paul 10 B Cell Stimulatory Factor-1 (Interleukin 4) Prepares Resting Murine B Cells to Secrete IgG1 upon Subsequent Stimulation with Bacterial Lipopolysaccharide
- A. Bernard, H. C. Tran, and L. Boumsell 18 Three Different Erythrocyte Surface Molecules Are Required for Spontaneous T Cell Rosette Formation
- M. R. MacKenzie, T. G. Paglieroni, and N. L. Warner 24 Multiple Myeloma: An Immunologic Profile. IV. The EA Rosette-Forming Cell Is a Leu-1 Positive Immunoregulatory B Cell
- S. Sone, T. Utsugi, A. Nii, and T. Ogura 29 Effects of Human Alveolar Macrophages on the Induction of Lymphokine (IL 2)-Activated Killer Cells
- O. Shapira-Nahor, E. Eynat, and S. Z. Ben-Sasson 35 Isotype Specificity of Antigen-Specific Helper Clone in Vivo
- T.-P. Lee, J. Venuti, I. Macara, R. Kawauchi, P. J. Davis, and B. K. Mookerjee 42 Characteristics of Calmodulin Binding to Purified Human Lymphocyte Plasma Membranes
- M. E. Kanof, W. Strober, and S. P. James 49 Induction of CD4 Suppressor T Cells with Anti-Leu-8 Antibody

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- J. D. Katz, R. Mitsuyasu, M. S. Gottlieb, L. T. Lebow, and B. Bonavida 55 Mechanism of Defective NK Cell Activity in Patients with Acquired Immunodeficiency Syndrome (AIDS) and AIDS-Related Complex. II. Normal Antibody-Dependent Cellular Cytotoxicity (ADCC) Mediated by Effector Cells Defective in Natural Killer (NK) Cytotoxicity
- N. S. Magnuson, L. E. Perryman, C. R. Wyatt, P. H. Mason, and J. E. Talmadge 61 Large Granular Lymphocytes from SCID Horses Develop Potent Cytotoxic Activity after Treatment with Human Recombinant Interleukin 2
- D. A. Hafler, D. S. Benjamin, J. Burks, and H. L. Weiner 68 Myelin Basic Protein and Proteolipid Protein Reactivity of Brain- and Cerebrospinal Fluid-Derived T Cell Clones in Multiple Sclerosis and Postinfectious Encephalomyelitis
- C. M. Gomez and D. P. Richman 73 Chronic Experimental Autoimmune Myasthenia Gravis Induced by Monoclonal Antibody to Acetylcholine Receptor: Biochemical and Electrophysiologic Criteria
- K. M. Das, S. Sakamaki, M. Vecchi, and B. Diamond 77 The Production and Characterization of Monoclonal Antibodies to a Human Colonic Antigen Associated with Ulcerative Colitis: Cellular Localization of the Antigen by Using the Monoclonal Antibody

Continued on page 4

Continued from page 3

- D. J. Chavez, J. A. McIntyre, J. A. Colliver, and W. P. Faulk 85 Allogeneic Matings and Immunization Have Different Effects on Nulliparous and Multiparous Mice
- E. S. Cathcart, R. F. Mortensen, C. A. Leslie, J. M. Conte, and W. A. Gonnerman 89 A Fish Oil Diet Inhibits Amyloid P Component (AP) Acute Phase Responses in Arthritis Susceptible Mice

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- T. A. Bird and J. Saklatvala 92 Studies on the Fate of Receptor-Bound ¹²⁵I-Interleukin 1 β in Porcine Synovial Fibroblasts
- P. J. Conlon, K. H. Grabstein, A. Alpert, K. S. Prickett, T. P. Hopp, and S. Gillis 98 Localization of Human Mononuclear Cell Interleukin 1
- R. A. Daynes, B. A. Robertson, B.-H. Cho, D. K. Burnham, and R. Newton 103 α -Melanocyte-Stimulating Hormone Exhibits Target Cell Selectivity in Its Capacity to Affect Interleukin 1-Inducible Responses in Vivo and in Vitro
- M. Kennedy, P. Wassmer, and P. Erb 110 A Novel Role for Interleukin 2 in Antibody Responses: Down-Regulation of T Helper Cell Activation
- G. J. Nau, R. L. Moldwin, D. W. Lancki, D.-K. Kim, and F. W. Fitch 114 Inhibition of IL 2-Driven Proliferation of Murine T Lymphocyte Clones by Supraoptimal Levels of Immobilized Anti-T Cell Receptor Monoclonal Antibody
- J. D. Watson, M. Eszes, R. Overell, P. Conlon, M. Widmer, and S. Gillis 123 Effect of Infection with Murine Recombinant Retroviruses Containing the v-src Oncogene on Interleukin 2- and Interleukin 3-Dependent Growth States
- G. H. Reem, S. Carding, and E. L. Reinherz 130 Lymphokine Synthesis Is Induced in Human Thymocytes by Activation of the CD 2 (T11) Pathway
- R. M. Crawford, D. S. Finbloom, J. Ohara, W. E. Paul, and M. S. Meltzer 135 B Cell Stimulatory Factor-1 (Interleukin 4) Activates Macrophages for Increased Tumoricidal Activity and Expression of Ia Antigens
- M. G. Goodman 142 Interaction between Cytokines and 8-Mercaptoguanosine in Humoral Immunity: Synergy with Interferon
- A. Celada and R. D. Schreiber 147 Internalization and Degradation of Receptor-Bound Interferon- γ by Murine Macrophages: Demonstration of Receptor Recycling

IMMUNOPHARMACOLOGY

- E. Ninio, F. Joly, C. Hiebolt, G. Bessou, J. M. Mencia-Huerta, and J. Benveniste 154 Biosynthesis of PAF-Acether. IX. Role for a Phosphorylation-Dependent Activation of Acetyltransferase in Antigen-Stimulated Mouse Mast Cells
- J. A. Warner, K. B. Yancey, and D. W. MacGlashan, Jr. 161 The Effect of Pertussis Toxin on Mediator Release from Human Basophils
- V. J. Merluzzi, R. B. Faanes, M. Czajkowski, K. Last-Barney, P. C. Harrison, J. Kahn, and R. Rothlein 166 Membrane-Associated Interleukin 1 Activity on Human U937 Tumor Cells: Stimulation of PGE₂ Production by Human Chondrosarcoma Cells
- M. D. P. Boyle, V. A. Chiodo, M. J. P. Lawman, A. P. Gee, and M. Young 169 Urokinase: A Chemotactic Factor for Polymorphonuclear Leukocytes in Vivo

IMMUNOCHEMISTRY

- R. P. Braun and J. S. Lee 175 Equilibrium Binding Parameters of an Autoimmune Monoclonal Antibody Specific for Double-Stranded DNA
- J. C. Edberg, G. A. Kujala, and R. P. Taylor 180 Clearance Kinetics and Immunochemistry in Rabbits of Soluble Antibody/DNA Immune Complexes: Effects of Antibody Class and DNA Conformation
- S. K. Sanders, H. Kubagawa, T. Suzuki, J. L. Butler, and M. D. Cooper 188 IgM Binding Protein Expressed by Activated B Cells
- T. Kaidoh and I. Gigli 194 Phylogeny of C4b-C3b Cleaving Activity: Similar Fragmentation Patterns of Human C4b and C3b Produced by Lower Animals

Continued on page 5

MICROBIAL IMMUNOLOGY

- | | | |
|---|-----|--|
| M. Kotb, J. B. Dale, and E. H. Beachey | 202 | Stimulation of S-Adenosylmethionine Synthetase in Human Lymphocytes by Streptococcal M Protein |
| R. M. Maizels, M. W. Kennedy, M. Meghji, B. D. Robertson, and H. V. Smith | 207 | Shared Carbohydrate Epitopes on Distinct Surface and Secreted Antigens of the Parasitic Nematode <i>Toxocara canis</i> |
| P. J. Brindley and A. Sher | 215 | The Chemotherapeutic Effect of Praziquantel against <i>Schistosoma mansoni</i> Is Dependent on Host Antibody Response |
| P. Scott, E. Pearce, P. Natovitz, and A. Sher | 221 | Vaccination against Cutaneous Leishmaniasis in a Murine Model. I. Induction of Protective Immunity with a Soluble Extract of Promastigotes |

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- | | | |
|---|-----|--|
| J. Schifflbauer, D. K. Didier, M. Klearman, K. Rice, S. Shuman, V. L. Tieber, D. J. Kittlesen, and B. D. Schwartz | 228 | Complete Sequence of the HLA DQ α and DQ β cDNA from a DR5/DQw3 Cell Line |
| T. Manser | 234 | Mitogen-Driven B Cell Proliferation and Differentiation Are Not Accompanied by Hypermutation of Immunoglobulin Variable Region Genes |
| T. J. Koerner, T. A. Hamilton, and D. O. Adams | 239 | Suppressed Expression of Surface Ia on Macrophages by Lipopolysaccharide: Evidence for Regulation at the Level of Accumulation of mRNA |
| D. Fertsch, D. R. Schoenberg, R. N. Germain, J. Y. L. Tou, and S. N. Vogel | 244 | Induction of Macrophage Ia Antigen Expression by rIFN- γ and Down-Regulation by IFN- α/β and Dexamethasone Are Mediated by Changes in Steady-State Levels of Ia mRNA |
| J. Schmid and C. Weissmann | 250 | Induction of mRNA for a Serine Protease and a β -Thromboglobulin-Like Protein in Mitogen-Stimulated Human Leukocytes |

TUMOR IMMUNOLOGY

- | | | |
|--|-----|---|
| M. Abe and D. W. Kufe | 257 | Identification of a Family of High Molecular Weight Tumor-Associated Glycoproteins |
| L. D. Powell, S. W. Whiteheart, and G. W. Hart | 262 | Cell Surface Sialic Acid Influences Tumor Cell Recognition in the Mixed Lymphocyte Reaction |
| S. Raychaudhuri, Y. Saeki, J.-J. Chen, H. Iribe, H. Fuji, and H. Kohler | 271 | Tumor-Specific Idiotypic Vaccines. II. Analysis of the Tumor-Related Network Response Induced by the Tumor and by Internal Image Antigens (Ab2 β) |
| E. Lotzová and C. A. Savary | 279 | Generation of NK Cell Activity from Human Bone Marrow |
| J. J. Mulé, J. C. Yang, R. Lafreniere, S. Shu, and S. A. Rosenberg | 285 | Identification of Cellular Mechanisms Operational in Vivo during the Regression of Established Pulmonary Metastases by the Systemic Administration of High-Dose Recombinant Interleukin 2 |
| S. Shu, T. Chou, and S. A. Rosenberg | 295 | Generation from Tumor-Bearing Mice of Lymphocytes with in Vivo Therapeutic Efficacy |
| D. Guerry IV, M. A. Alexander, D. E. Elder, and M. F. Herlyn | 305 | Interferon- γ Regulates the T Cell Response to Precursor Nevi and Biologically Early Melanoma |
| C. D. Gregory, T. Tursz, C. F. Edwards, C. Tetaud, M. Talbot, B. Caillou, A. B. Rickinson, and M. Lipinski | 313 | Identification of a Subset of Normal B Cells with a Burkitt's Lymphoma (BL)-Like Phenotype |
| Author Index | 319 | |