



Vaccine Adjuvants

Take your vaccine to the next level

InVivoGen



139 (4)

J Immunol 1987; 139:985-1375; ;
<http://www.jimmunol.org/content/139/4.citation>

This information is current as
of December 8, 2021.

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

- | | | |
|--|-----|---|
| M. Skinner and J. Marbrook | 985 | The Most Efficient Cytotoxic T Lymphocytes Are the Least Susceptible to Lysis |
| J. M. Zarling, J. W. Eichberg,
P. A. Moran, J. McClure, P.
Sridhar, and S.-L. Hu | 988 | Proliferative and Cytotoxic T Cells To AIDS Virus Glycoproteins in Chimpanzees Immunized with a Recombinant Vaccinia Virus Expressing AIDS Virus Envelope Glycoproteins |

CELLULAR IMMUNOLOGY

- | | | |
|---|------|---|
| R. G. Cook, N. F. Landolfi, V.
Mehta, J. Leone, and D. Hoy-
land | 991 | Interleukin 2 Mediates an Alteration in the T200 Antigen Expressed on Activated B Lymphocytes |
| V. L. Herzberg and K. A. Smith | 998 | T Cell Growth without Serum |
| D. F. Jelinek and P. E. Lipsky | 1005 | Comparative Activation Requirements of Human Peripheral Blood, Spleen, and Lymph Node B Cells |
| H. Takayama, G. Trenn, A.
Kruisbeek, O. Kanagawa,
and M. V. Sitkovsky | 1014 | T Cell Antigen Receptor Triggered Exocytosis in Cytotoxic T Lymphocytes Is Inhibited by Soluble, but Not Immobilized Monoclonal Antibodies to Lyt-2 Antigen |
| M. H. Nissen and M. H. Claës-
son | 1022 | Proteolytically Modified Human β_2 -Microglobulin Augments the Specific Cytotoxic Activity in Murine Mixed Lymphocyte Culture |
| W. E. F. Klinkert | 1030 | Homing of Antigen-Specific T Cells in the Lewis Rat. I. Accumulation of Antigen-Reactive Cells in the Perithymic Lymph Nodes |
| S. Shaw and G. E. G. Luce | 1037 | The Lymphocyte Function-Associated Antigen (LAF)-1 and CD2/FLA-3 Pathways of Antigen-Independent Human T Cell Adhesion |
| A. Malley, L. M. Bradley, and
S. M. Shiigi | 1046 | The Role of Macrophages in Anti-Idiotypic Antibody and T Suppressor Factor Induction of Timothy Grass Pollen Antigen B-Specific T Suppressor Cells |
| J. Mizuguchi, J. Yong-Yong, H.
Nakabayashi, K.-P. Huang,
M. A. Beaven, T. Chused, and
W. E. Paul | 1054 | Protein Kinase C Activation Blocks Anti-IgM-Mediated Signaling In BAL17 B Lymphoma Cells |

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- | | | |
|--|------|---|
| T. J. Kipps and J. H. Vaughan | 1060 | Genetic Influence on the Levels of Circulating CD5 B Lymphocytes |
| M.-L. Blue, J. F. Daley, H. Lev-
ine, K. A. Craig, and S. F.
Schlossman | 1065 | Identification and Isolation of a T4 ⁺ T8 ⁺ Cell with High T3 Expression in Human Thymus: A Possible Late Intermediate in Thymocyte Differentiation |
| H. Ishida, S. Kumagai, H. Ume-
hara, H. Sano, Y. Tagaya, J.
Yodoi, and H. Imura | 1070 | Impaired Expression of High Affinity Interleukin 2 Receptor on Activated Lymphocytes from Patients with Systemic Lupus Erythematosus |
| S. S. Zamvil, D. J. Mitchell, A.
C. Moore, A. J. Schwarz, W.
Stiefel, P. A. Nelson, J. B.
Rothbard, and L. Steinman | 1075 | T Cell Specificity for Class II (I-A) and the Encephalitogenic N-Terminal Epitope of the Autoantigen Myelin Basic Protein |

Continued on page 4

Continued from page 3

- M. T. Aguado, R. S. Balderas, R. L. Rubin, M. A. Duchosal, R. Kofler, B. K. Birshtein, D. S. Secher, F. J. Dixon, and A. N. Theofilopoulos 1080 Specificity and Molecular Characteristics of Monoclonal IgM Rheumatoid Factors from Arthritic and Non-Arthritic Mice
- B. A. Croy, W. Wood, and G. J. King 1088 Evaluation of Intrauterine Immune Suppression during Pregnancy in a Species with Epitheliochorial Placentation
- I. Bertoncello, S. H. Bartelmez, T. R. Bradley, and G. S. Hodgson 1096 Increased Qa-m7 Antigen Expression is Characteristic of Primitive Hemopoietic Progenitors in Regenerating Marrow

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- G. J. Bancroft, R. D. Schreiber, G. C. Bosma, M. J. Bosma, and E. R. Unanue 1104 A T Cell-Independent Mechanism of Macrophage Activation by Interferon- γ
- K. E. Barber, P. S. Crosier, and J. D. Watson 1108 The Differential Inhibition of Hemopoietic Growth Factor Activity by Cytotoxins and Interferon- γ
- P. J. Morrissey, L. Bressler, L. S. Park, A. Alpert, and S. Gillis 1113 Granulocyte-Macrophage Colony-Stimulating Factor Augments the Primary Antibody Response by Enhancing the Function of Antigen-Presenting Cells
- O. Bakouche, W. C. Koff, D. C. Brown, and L. B. Lachman 1120 Interleukin 1 Release by Human Monocytes Treated with Liposome-Encapsulated Lipopolysaccharide
- J. Ohara, J. E. Coligan, K. Zoon, W. L. Maloy, and W. E. Paul 1127 High-Efficiency Purification and Chemical Characterization of B Cell Stimulatory Factor-1/Interleukin 4
- T. Defrance, B. Vanbervliet, J.-P. Aubry, Y. Takebe, N. Arai, A. Miyajima, T. Yokota, F. Lee, K. Arai, J. De Vries, and J. Banchereau 1135 B Cell Growth-Promoting Activity of Recombinant Human Interleukin 4
- H. Spits, H. Yssel, Y. Takebe, N. Arai, T. Yokota, F. Lee, K. I. Arai, J. Banchereau, and J. E. De Vries 1142 Recombinant Interleukin 4 Promotes the Growth of Human T Cells
- K. H. Grabstein, L. S. Park, P. J. Morrissey, H. Sassenfeld, V. Price, D. L. Urdal, and M. B. Widmer 1148 Regulation of Murine T Cell Proliferation by B Cell Stimulatory Factor-1
- H. Kang, S. Koyasu, M. Takei, K. Tomura, M. Karasaki, I. Yahara, and S. Sawada 1154 Characterization of a B Cell-Derived Growth-Enhancing Factor Produced by a Human B Cell Line Established from a Patient with Rheumatoid Arthritis
- H. Holtmann and D. Wallach 1161 Down Regulation of the Receptors for Tumor Necrosis Factor by Interleukin 1 and 4 β -Phorbol-12-Myristate-13-Acetate
- M. Hurme 1168 Membrane-Associated Interleukin 1 Is Required for the Activation of T Cells in the Anti-CD3 Antibody-Induced T Cell Response
- T. R. Theime, S. H. Hefeneider, C. R. Wagner, and D. R. Burger 1173 Recombinant Murine and Human IL 1 α Bind to Human Endothelial Cells with an Equal Affinity, but Have an Unequal Ability to Induce Endothelial Cell Adherence of Lymphocytes
- D. Mary, C. Aussel, B. Ferrua, and M. Fehlmann 1179 Regulation of Interleukin 2 Synthesis by cAMP in Human T Cells
- H. W. Schnaper, T. M. Aune, and P. K. Roby 1185 A Role for Histamine Type II (H-2) Receptor Binding in Production of the Lymphokine, Soluble Immune Response Suppressor (SIRS)

IMMUNOCHEMISTRY

- W. T. Lee, M. Rao, and D. H. Conrad 1191 The Murine Lymphocyte Receptor for IgE. IV. The Mechanism of Ligand-Specific Receptor Upregulation on B Cells
- A. D. Keegan and D. H. Conrad 1199 The Murine Lymphocyte Receptor for IgE. V. Biosynthesis, Transport, and Maturation of the B Cell Fc₁ Receptor
- L. D. Powell, K. Smith, and G. W. Hart 1206 Site Specific Glycosylation Patterns of H-2K: Effects of Allelic Polymorphism and Mitogenic Stimulation

Continued on page 5

Continued from page 4

- O. Leo, M. Foo, D. M. Segal, E. Shevach, and J. A. Bluestone 1214 Activation of Murine T Lymphocytes with Monoclonal Antibodies: Detection on Lyt-2⁺ Cells of an Antigen not Associated with the T Cell Receptor Complex but Involved in T Cell Activation
- D. R. Milich, A. McLachlan, A. Moriarty, and G. B. Thornton 1223 Immune Response to Hepatitis B Virus Core Antigen (HBcAg): Localization of T Cell Recognition Sites within HBcAg/HBeAg
- F. Perosa and S. Ferrone 1232 Syngeneic Anti-Idiotypic Antisera to Murine Anti-HLA Class II Monoclonal Antibodies
- J. C. Edberg, G. A. Kujala, and R. P. Taylor 1240 Rapid Immune Adherence Reactivity of Nascent, Soluble Antibody/DNA Immune Complexes in the Circulation
- A. H. Grier, M. Schultz, and C.-W. Vogel 1245 Cobra Venom Factor and Human C3 Share Carbohydrate Antigenic Determinants
- V. E. Jimenez-Lucho, K. A. Joiner, J. Foulds, M. M. Frank, and L. Leive 1253 C3b Generation Is Affected by the Structure of the O-Antigen Polysaccharide in Lipopolysaccharide from Salmonellae
- T. Seya, T. Farries, M. Nickells, and J. P. Atkinson 1260 Additional Forms of Human Decay-Accelerating Factor (DAF)
- J. W. Mier, C. A. Dinarello, M. B. Atkins, P. I. Punsal, and D. H. Perlmutter 1268 Regulation of Hepatic Acute Phase Protein Synthesis By-Products of Interleukin 2 (IL 2)-Stimulated Human Peripheral Blood Mononuclear Cells

IMMUNOPHARMACOLOGY

- P. E. Poubelle, P. Borgeat, and M. Rola-Pleszczynski 1273 Assessment of Leukotriene B₄ Synthesis in Human Lymphocytes by Using High Performance Liquid Chromatography and Radioimmunoassay Methods
- A. Wohlwend, D. Belin, and J.-D. Vassalli 1278 Plasminogen Activator-Specific Inhibitors in Mouse Macrophages: In Vivo and in Vitro Modulation of Their Synthesis and Secretion

MICROBIAL IMMUNOLOGY

- S. J. Sargent, E. H. Beachey, C. E. Corbett, and J. B. Dale 1285 Sequence of Protective Epitopes of Streptococcal M Proteins Shared with Cardiac Sarcolemmal Membranes
- J. K. Spitznagel, H. A. Pereira, L. E. Martin, G. S. Guzman, and W. M. Shafer 1291 A Monoclonal Antibody that Inhibits the Antimicrobial Action of a 57 KD Cationic Protein of Human Polymorphonuclear Leukocytes
- E. C. Yong, E. Y. Chi, and C.-C. Kuo 1297 Differential Antimicrobial Activity of Human Mononuclear Phagocytes against the Human Biovars of *Chlamydia trachomatis*
- M. D. Sadick, F. P. Heinzl, V. M. Shigekane, W. L. Fisher, and R. M. Locksley 1303 Cellular and Humoral Immunity to *Leishmania major* in Genetically Susceptible Mice after in Vivo Depletion of L3T4⁺ T Cells
- C. J. Jaffe and R. Sarfstein 1310 Species-Specific Antibodies to *Leishmania tropica* (Minor) Recognize Somatic Antigens and Exometabolites

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- S. S. Beall, J. V. Lawrence, D. A. Bradley, D. H. Mattson, D. S. Singer, and W. E. Biddison 1320 β -Chain Gene Rearrangements and V β Gene Usage in DPw2-Specific T Cells
- G. V. Borzillo, M. D. Cooper, H. Kobagawa, A. Landay, and P. D. Burrows 1326 Isotype Switching in Human B Lymphocyte Malignancies Occurs by DNA Deletion: Evidence for Nonspecific Switch Recombination
- J. Berdoz, J. Gorski, A.-M. Ter-mijtelen, J.-M. Dayer, C. Irlé, D. Schendal, and B. Mach 1336 Constitutive and Induced Expression of the Individual HLA-DR β and α -Chain Loci in Different Cell Types
- S. M. Wahl, N. McCartney-Francis, D. A. Hunt, P. D. Smith, L. M. Wahl, and I. M. Katona 1342 Monocyte Interleukin 2 Receptor Gene Expression and Interleukin 2 Augmentation of Microbicidal Activity
- G. Otten, K. C. Herold, and F. W. Fitch 1348 Interleukin 2 Inhibits Antigen-Stimulated Lymphokine Synthesis in Helper T Cells by Inhibiting Calcium-Dependent Signaling

Continued on page 6

TUMOR IMMUNOLOGY

M. Bhattacharya-Chatterjee, M. W. Pride, B. K. Seon, and H. Kohler	1354	Idiotypic Vaccines against Human T Cell Acute Lymphoblastic Leukemia. I. Generation and Characterization of Biologically Active Monoclonal Anti-Idiotopes
S. D. Somers, T. A. Hamilton, and D. O. Adams	1361	Maleylated Bovine Serum Albumin Triggers Cytolytic Function in Selected Populations of Primed Murine Macrophages
J. T. Wong and R. B. Colvin	1369	Bi-specific Monoclonal Antibodies: Selective Binding and Complement Fixation to Cells that Express Two Different Surface Antigens
Letter to the Editor	1375	
Announcements	1376	
Author Index	1377	