


Purchase our reagents,
Get a free Mini ELISA Plate Reader™ 

[Learn More](#)



145 (4)

J Immunol 1990; 145:1039-1292; ;
<http://www.jimmunol.org/content/145/4.citation>

This information is current as
of September 23, 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

CELLULAR IMMUNOLOGY

- | | | |
|--|------|--|
| Z. K. Ballas and W. Rasmussen | 1039 | NK1.1 ⁺ Thymocytes: Adult Murine CD4 ⁻ , CD8 ⁻ Thymocytes Contain an NK1.1 ⁺ , CD3 ⁺ , CD5 ^{int} , CD44 ^{int} , TCR-V β 8 ⁺ Subset |
| M. Betz and B. S. Fox | 1046 | Regulation and Development of Cytochrome c-Specific IL-4-Producing T Cells |
| T. Kobata, H. Yagita, H. Matsuda, M. Seki, Y. Ota, M. Katagiri, and K. Okumura | 1053 | Expression and Function of a 90-Kilodalton Homodimeric Molecule (10D1 Antigen) on Human Thymocytes |
| V. K. Kuchroo, P. R. Billings, C. Levine, C. A. Martin, R. T. Kubo, and M. E. Dorf | 1059 | Antigen-Specific and Antibody-Mediated Growth Inhibition of Suppressor T Cell Hybridomas: Roles of H-2 and the CD3-T Cell Receptor- α/β Complex |
| J. Plum, M. De Smedt, G. LeClercq, and B. Tison | 1066 | Inhibitory Effect of Murine Recombinant IL-4 on Thymocyte Development in Fetal Thymus Organ Cultures |
| G. V. Richieri and A. M. Kleinfeld | 1074 | Free Fatty Acids Inhibit Cytotoxic T Lymphocyte-Mediated Lysis of Allogeneic Target Cells |
| W. Stohl, F. M. Hofman, and J. D. Gray | 1078 | Differential CD3/T Cell Antigen Receptor-Mediated IL-2 Production in Jurkat T Cells: Dissociation of IL-2 Response from Total Inositol Phosphate and Calcium Responses |

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- | | | |
|--|------|---|
| J. Doukas and J. S. Pober | 1088 | Lymphocyte-Mediated Activation of Cultured Endothelial Cells (EC): CD4 ⁺ T Cells Inhibit EC Class II MHC Expression Despite Secreting IFN- γ and Increasing EC Class I MHC and Intercellular Adhesion Molecule-1 Expression |
| Z. Fabry, M. M. Waldschmidt, L. Van Dyk, S. A. Moore, and M. N. Hart | 1099 | Activation of CD4 ⁺ Lymphocytes by Syngeneic Brain Microvascular Smooth Muscle Cells |
| G. Girolomoni and R. E. Tigella | 1105 | Capsaicin-Sensitive Primary Sensory Neurons Are Potent Modulators of Murine Delayed-Type Hypersensitivity Reactions |
| S. C. Muluk, F. T. Hakim, and G. M. Shearer | 1113 | Murine Cytomegalovirus Infection Can Enhance Hybrid Resistance through Modulation of Host Natural Killer Activity |
| S. K. Stanley, P. B. Bressler, G. Poli, and A. S. Fauci | 1120 | Heat Shock Induction of HIV Production from Chronically Infected Promonocytic and T Cell Lines |

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- | | | |
|--|------|---|
| S. Z. Ben-Sasson, G. Le Gros, D. H. Conrad, F. D. Finkelman, and W. E. Paul | 1127 | IL-4 Production by T Cells from Naive Donors: IL-2 Is Required For IL-4 Production |
| I. Espinoza-Delgado, D. L. Longo, G. L. Gusella, and L. Varesio | 1137 | IL-2 Enhances c-fms Expression in Human Monocytes |
| K. W. Johnson and K. A. Smith | 1144 | cAMP Regulation of IL-2 Receptor Expression: Selective Modulation of the p75 Subunit |
| S. Karray, A. Dautry-Varsat, M. Tsudo, H. Merle-Beral, P. Debre, and P. Galanaud | 1152 | IL-4 Inhibits the Expression of High Affinity IL-2 Receptors on Monoclonal Human B Cells |
| M. J. Smyth, J. R. Ortaldo, W. Bere, H. Yagita, K. Okumura, and H. A. Young | 1159 | IL-2 and IL-6 Synergize to Augment the Pore-Forming Protein Gene Expression and Cytotoxic Potential of Human Peripheral Blood T Cells |

Continued on page 4

- T. Zimmer and P. P. Jones 1167 Combined Effects of Tumor Necrosis Factor- α , Prostaglandin E₂, and Corticosterone on Induced Ia Expression on Murine Macrophages

IMMUNOCHEMISTRY

- J.-P. Bouvet, R. Pirès, F. Lunel-Fabiani, B. Crescenzo-Chaigne, P. Maillard, D. Valla, P. Opolon, and J. Pillot 1176 Protein F: A Novel F(ab)-Binding Factor, Present in Normal Liver, and Largely Released in the Digestive Tract during Hepatitis
- S. C. Johnston, M. L. Dustin, M. L. Hibbs, and T. A. Springer 1181 On the Species Specificity of the Interaction of LFA-1 with the Intercellular Adhesion Molecule
- C. R. Parish, L. Low, H. S. Warren, and A. L. Cunningham 1188 A Polyanion Binding Site on the CD4 Molecule: Proximity to the HIV-gp120 Binding Region
- S. Paul, D. J. Volle, and S. Mei 1196 Affinity Chromatography of Catalytic Autoantibody to Vasoactive Intestinal Peptide
- J. L. Phelps, D. E. Beidler, R. A. Jue, B. W. Unger, and M. J. Johnson 1200 Expression and Characterization of a Chimeric Bifunctional Antibody with Therapeutic Applications

IMMUNOPHARMACOLOGY

- H. L. Cooper, R. Fuldner, E. McDuffie, and R. Braverman 1205 A Specific Defect of Prosolin Phosphorylation in T Cell Leukemic Lymphoblasts Is Associated with Impaired Down-Regulation of DNA Synthesis
- M. L. Kowalski, M. Sliwiska-Kowalska, and M. A. Kaliner 1214 Neurogenic Inflammation, Vascular Permeability, and Mast Cells. II. Additional Evidence Indicating that Mast Cells Are Not Involved in Neurogenic Inflammation
- B. Lebel, E. Schneider, C. Piquet-Pellorce, F. Machavoine, V. Kindler, G. Luffau, and M. Dy 1222 Antigenic Challenge of Immunized Mice Induces Endogeneous Production of IL-3 That Increases Histamine Synthesis in Hemopoietic Organs
- D. J. McConkey, S. Orrenius, and M. Jondal 1227 Agents That Elevate cAMP Stimulate DNA Fragmentation in Thymocytes
- S. B. Rodan, G. Wesolowski, J. Chin, G. A. Limjuco, J. A. Schmidt, and G. A. Rodan 1231 IL-1 Binds to High Affinity Receptors on Human Osteosarcoma Cells and Potentiates Prostaglandin E₂ Stimulation of cAMP Production
- B. H. Rovin, J. B. Lefkowitz, and G. F. Schreiner 1238 Mechanisms Underlying the Anti-Inflammatory Effects of Essential Fatty Acid Deficiency in Experimental Glomerulonephritis: Inhibited Release of a Monocyte Chemoattractant by Glomeruli
- O. Takikawa, A. Habara-Ohkubo, and R. Yoshida 1246 IFN- γ Is the Inducer of Indoleamine 2,3-Dioxygenase in Allografted Tumor Cells Undergoing Rejection

MICROBIAL IMMUNOLOGY

- D. Bessen and V. A. Fischetti 1251 Synthetic Peptide Vaccine against Mucosal Colonization by Group A Streptococci. I. Protection against a Heterologous M Serotype with Shared C Repeat Region Epitopes
- P. L. Fidel, Jr. and D. L. Boros 1257 Regulation of Granulomatous Inflammation in Murine Schistosomiasis. IV. Antigen-Induced Suppressor T Cells Down-Regulate Proliferation and IL-2 Production
- C. Nauciel 1265 Role of CD4⁺ T Cells and T-Independent Mechanisms in Acquired Resistance to *Salmonella typhimurium* Infection

MOLECULAR BIOLOGY • MOLECULAR GENETICS

M. Oudshoorn-Snoek and P. Demant	1270	Identification and Expression of the <i>Tla</i> Region Gene <i>T11^b</i> and Its Qa-Like Product
G. C. Webb and D. D. Chaplin	1278	Genetic Variability at the Human Tumor Necrosis Factor Loci

TUMOR IMMUNOLOGY

N. Khalil, S. C. Battistuzzi, R. P. Kraut, L. C. Schwarz, and A. H. Greenberg	1286	Growth Factor-Initiated Proliferation of Mouse Embryonic Fibroblasts Induces Cytotoxicity by Natural Killer Cells and by a Non-Cytolysin Cytotoxin in Natural Killer Granules
Announcement	1293	
Author Index	1294	