



Sorting a 12-Color Immunophenotyping Panel



SONY



The Journal of
Immunology

141 (6)

J Immunol 1988; 141:1791-2186; ;
<http://www.jimmunol.org/content/141/6.citation>

This information is current as
of September 27, 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

- D. C. Shreffler 1791 Presidential Address: Seventy-Five Years of Immunology: The View from the MHC

CELLULAR IMMUNOLOGY

- J. E. Riggs, A. M. Lussier, S.-K. Lee, M. C. Appel, and R. T. Woodland 1799 Differential Radiosensitivity Among B Cell Subpopulations
- W. L. Havran and F. W. Fitch 1808 Effects of Anti-LYT-2 and Anti-L3T4 Monoclonal Antibodies on the Function of CTL/HTL Hybrid T Cell Clones
- D. Mann and J. Forman 1813 Recognition by Cytotoxic T Lymphocytes of QA-2 Antigens. Sensitivity of QA-2 Molecules to Phosphatidylinositol-Specific Phospholipase C
- S.-T. Fan and T. S. Edgington 1819 Clonal Analysis of Mechanisms of Murine T Helper Cell Collaboration with Effector Cells of Macrophage Lineage
- S. R. Webb, A. Okamoto, and J. Sprent 1828 Analysis of T Hybridomas Prepared from a T Cell Clone with Three Specificities: Recognition of Self + X and Allo-H-2 Determinants Segregates from Recognition of Mls^a Determinants
- V. H. Engelhard, A.-X. T. Le, and M. J. Holterman 1835 Species-Specific Structural Differences in $\alpha 1 + \alpha 2$ Domains Determine the Frequency of Murine Cytotoxic T Cell Precursors Stimulated by Human and Murine Class I Molecules
- M. McDuffie, N. Roehm, J. W. Kappler, and P. Marrack 1840 Involvement of Major Histocompatibility Complex Products in Tolerance Induction in the Thymus
- J.-L. Davignon, P. L. Cohen, and R. A. Eisenberg 1848 Rapid T Cell Receptor Modulation Accompanies Lack of *in Vitro* Mitogenic Responsiveness of Double Negative T Cells to Anti-CD3 Monoclonal Antibody in MRL/Mp-*lpr/lpr* Mice
- A. Mathur, R. G. Lynch, and G. Kohler 1855 Expression, Distribution and Specificity of Fc Receptors for IgM on Murine B Cells
- D. Zharhary 1863 Age-Related Changes in the Capability of the Bone Marrow to Generate B Cells
- L. C. Eisenlohr, W. Gerhard, and C. J. Hackett 1870 Acid-Induced Conformational Modification of the Hemagglutinin Molecule Alters Interaction of Influenza Virus with Antigen-Presenting Cells
- G. J. Spangrude and I. L. Weissman 1877 Mature T Cells Generated from Single Thymic Clones are Phenotypically and Functionally Heterogeneous
- G. A. Peltz, M. L. Trownstine, and K. W. Moore 1891 Cloned and Expressed Human Fc Receptor for IgG Mediates Anti-CD3-dependent Lymphoproliferation
- J. L. Nixon-Fulton, W. A. Kuziel, B. Santerse, P. R. Bergstresser, P. W. Tucker, and R. E. Tigelaar 1897 Thy-1⁺ Epidermal Cells in Nude Mice are Distinct from their Counterparts in Thymus-Bearing Mice. A Study of Morphology, Function, and T Cell Receptor Expression
- L. K. Bockenstedt, M. A. Goldsmith, M. Dustin, D. Olive, T. A. Springer, and A. Weiss 1904 The CD2 Ligand LFA-3 Activates T Cells but Depends on the Expression and Function of the Antigen Receptor
- D. Emilie, C. Wallon, P. Galanaud, A. Fischer, D. Olive, and J.-F. Delfraissy 1912 Role of the LFA-3-CD2 Interaction in Human Specific B Cell Differentiation
- A. C. Carrera, M. Rincón, R. Sánchez-Madrid, M. Lopez-Botet, and M. O. de Landázuri 1919 Triggering of Co-mitogenic Signals in T Cell Proliferation by Anti-LFA-1 (CD18, CD11a), LFA-3, and CD7 Monoclonal Antibodies

Continued on page 4

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- A. Gougos and M. Letarte 1925 Identification of a Human Endothelial Cell Antigen with Monoclonal Antibody 44G4 Produced Against a Pre-B Leukemic Cell Line
- A. Gougos and M. Letarte 1934 Biochemical Characterization of the 44G4 Antigen from the HOON pre-B Leukemic Cell Line
- K. M. Weston, S.-T. Ju, C. Y. Lu, and M.-S. Sy 1941 Autoreactive T Cells in MRL/Mp-*lpr/lpr* Mice: Characterization of the Lymphokines Produced and Analysis of Antigen-Presenting Cells Required
- P. Langlade-Demoyen, F. Michel, A. Hoffenbach, E. Vilmer, G. Dadaglio, F. Garcia-Pons, C. Mayaud, B. Autran, S. Wain-Hobson, and F. Plata 1949 Immune Recognition of Aids Virus Antigens by Human and Murine Cytotoxic T Lymphocytes
- S. M. Cooper, S. Sriram, and G. E. Ranges 1958 Suppression of Murine Collagen-Induced Arthritis with Monoclonal Anti-Ia Antibodies and Augmentation with IFN- γ
- D. N. Posnett, A. Gottlieb, J. Bussel, S. Friedman, N. Chiorazzi, Y. Li, P. Szabo, N. Farid, and M. A. Robinson 1963 T Cell Antigen Receptors in Autoimmunity
- N. Yoshimura, H. Nakamura, S. Honjo, N. Akiyama, and M. Hayami 1970 Killer Cell Systems of Cynomolgus Monkeys Experimentally Infected with HTLV-I

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- J. S. Lillquist, P. L. Simon, M. Summers, Z. Jonak, and P. R. Young 1975 Structure-Activity Studies of Human IL-1 β with Mature and Truncated Proteins Expressed in *Escherichia coli*
- J.-P. Galizzi, H. Carbrillat, F. Rousset, C. Ménétrier, J. E. de Vries, and J. Banchereau 1982 IFN- γ and Prostaglandin E2 Inhibit IL-4-Induced Expression of Fc ϵ R2/CD23 on B Lymphocytes through Different Mechanisms without Altering Binding of IL-4 to its Receptor
- C. V. Paya, N. Kenmotsu, R. A. Schoon, and P. J. Leibson 1989 Tumor Necrosis Factor and Lymphotoxin Secretion by Human Natural Killer Cells Leads to Antiviral Cytotoxicity
- A. Vink, P. Vandenabeele, C. Uyttenhove, S. Cayphas and J. Van Snick 1996 Plasmacytoma Growth Factor Activity of Murine Granulocyte-Macrophage Colony-Stimulating Factor
- T. Defrance, B. Vanbervliet, J. Pène, and J. Banchereau 2000 Human Recombinant IL-4 Induces Activated B Lymphocytes to Produce IgG and IgM
- R. S. Kornbluth, S. A. Gregory, and T. S. Edgington 2006 Initial Characterization of a Lymphokine Pathway for the Immunologic Induction of Tumor Necrosis Factor- α Release from Human Peripheral Blood Mononuclear Cells
- A. G. King, D. Wierda, and K. S. Landreth 2016 Bone Marrow Stromal Cell Regulation of B-Lymphopoiesis: I. The Role of Macrophages, IL-1, and IL-4 in Pre-B Cell Maturation
- J. A. Schmidt and E. Abdulla 2027 Down-Regulation of IL-1 β Biosynthesis by Inducers of the Heat Shock Response
- K. W. Beagley, J. H. Eldridge, H. Kiyono, M. P. Everson, W. J. Koopman, T. Honjo and J. R. McGhee 2035 Recombinant Murine IL-5 Induces High Rate IgA Synthesis in Cycling IgA-Positive Peyer's Patch B Cells
- M. G. Cleveland, R. G. Lane, and G. R. Klimpel 2043 Spontaneous IFN- β Production: A Common Feature of Natural Suppressor Systems
- D. A. Leberman and R. L. Coffman 2050 The Effects of IL-4 and IL-5 on the IgA Response by Murine Peyer's Patch B Cell Subpopulations

Continued on page 5

IMMUNOCHEMISTRY

- F. Koning, W. M. Yokoyama, W. L. Maloy, G. Stingl, T. J. McConnell, D. I. Cohen, E. M. Shevach, and J. E. Coligan 2057 Expression C γ -4 T Cell Receptors and Lack of Isotype Exclusion by Dendritic Epidermal T Cell Lines
- W. T. McCormack, P. Dhanarajan, and K. H. Roux 2063 Comparison of Latent and Nominal Rabbit Ig VH α 1 Allotypes cDNA Sequences
- L. Giuffrè, P. Isler, J.-P. Mach, and S. Carrel 2072 A Novel IFN- γ Regulated Human Melanoma Associated Antigen gp33-38 Defined by Monoclonal Antibody Me14/D12 I. Identification and Immunochemical Characterization
- L. T. Doglio, M. S. Gawryl, and T. F. Lint 2079 Analysis of Human C8 with Monoclonal Antibodies: Characterization of a Monoclonal Antibody that Recognizes Free C8 α - γ Subunit
- R. P. Braun and J. S. Lee 2084 Immunogenic Duplex Nucleic Acids are Nuclease Resistant

IMMUNOPHARMACOLOGY

- R. Gureshi and B. A. Jakschik 2090 The Role of Mast Cells in Thioglycollate-Induced Inflammation
- M. F. Tosi and M. Berger 2097 Functional Differences Between the 40 kDa and 50 to 70 kDa IgG Fc Receptors on Human Neutrophils Revealed by Elastase Treatment and Anti-receptor Antibodies
- M. Laviolette, M. Carreau, R. Coulombe, D. Cloutier, P. Dupont, J. Rioux, P. Braquet, and P. Brogeat 2104 Metabolism of Arachidonic Acid through the 5-lipoxygenase Pathway in Normal Human Peritoneal Macrophages
- J. Ryan and C. L. Geczy 2110 Macrophage Procoagulant-Inducing Factor: In Vivo Properties and Chemotactic Activity for Phagocytic Cells
- M. C. Serra, F. Bazzoni, V. D. Bianca, M. Greskowiak, and F. Rossi 2118 Activation of Human Neutrophils by Substance P: Effect on Oxidative Metabolism, Exocytosis, Cytosolic Ca²⁺ Concentration and Inositol Phosphate Formation

MICROBIAL IMMUNOLOGY

- H. Yoshida, L. Fossati, M. Yoshida, M. Abdelmoula, S. Herrera, J. Merino, P.-H. Lambert, and S. Izui 2125 Igh-C Allotype-Linked Control of Anti-DNA Production and Clonotype Expression in Mice Infected with *Plasmodium yoelii*
- B. Holaday, M. D. Sadick, and R. D. Pearson 2132 Isolation of Protective T Cells from BALB/cJ Mice Chronically Infected with *Leishmania donovani*

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- B. Seliger, G. Stark, and K. Pfizenmaier 2138 Tumor Necrosis Factor- α Affects LTR-Controlled Oncogene Expression in Transformed Mouse Fibroblasts at the Post-Transcriptional Level
- K. Katagiri, T. Katagiri, S. Yokota, R. A. Eisenberg, P. L. Cohen, and J. P.-Y. Ting 2145 Two Different Molecular Pathways Account for Low IL-2 Receptor and *c-myc* mRNA Expression by *lpr* Lyt-2⁻ L3T4⁻ T Cells
- E. Blasi, D. Radzioch, and L. Varesio 2153 Inhibition of Retroviral mRNA Expression in the Murine Macrophage Cell Line GG2EE by Biological Response Modifiers
- E. P. Klohe, R. Watts, M. Bahl, C. Alber, W. Yu, R. Anderson, J. A. Silver, P. K. Gregersen, and R. W. Karr 2158 Analysis of the Molecular Specificities of Anti-Class II Monoclonal Antibodies by Using L Cell Transfectants Expressing HLA Class II Molecules

Continued on page 6

- T. Wade, J. Bill, P. C. Marrack, 2165 Molecular Basis for the Nonexpression of V β 17 in Some Strains of Mice
E. Palmer, and J. W. Kappler

TUMOR IMMUNOLOGY

- A. J. T. George, S. G. Folkard, 2168 Idiotypic Vaccination as a Treatment for a B Cell Lymphoma
T. J. Hamblin, and F. K. Stevenson
- J. G. Cornelius and S. J. Nor- 2175 Isolation of a Low Molecular Weight Inhibitor of Lymphocyte Proliferation
mann from Tumorous Ascites
- R. Yasumizu, H. Hiai, K. Sug- 2181 Development of Donor-Derived Thymic Lymphomas After Allogeneic Bone
iura, N. Oyaizu, F. Hongxue, Marrow Transplantation in AKR/J Mice
Y. Ohnishi, H. Iwai, M. Inaba,
M. Kakinuma, K. Onoe, R. A.
Good, and S. Ikehara
- Erratum 2187
- Announcements 2187
- Author Index 2189