

Luminex
complexity simplified.



**Capabilities for Today.
Flexibility for Tomorrow.**

Amnis[®] CellStream[®] Flow Cytometry Systems.

LEARN MORE >



140 (5)

J Immunol 1988; 140:1351-1712; ;
<http://www.jimmunol.org/content/140/5.citation>

This information is current as
of November 19, 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

CELLULAR IMMUNOLOGY

- | | | |
|--|------|--|
| H. Zheng, M. Boyer, A. Fotedar, B. Singh, and D. R. Green | 1351 | An Antigen-Specific Helper T Cell Hybridoma Produces an Antigen-Specific Suppressor Inducer Molecule with Identical Antigenic Fine Specificity: Implications for the Antigen Recognition and Function of Helper and Suppressor Inducer T Cells |
| G. Suzuki, Y., Kawase, S. Koyasu, I. Yahara, Y. Kobayashi, and R. H. Schwartz | 1359 | Antigen-Induced Suppression of the Proliferative Response of T Cell Clones |
| M. H. Julius, M. Janusz, and J. Lisowski | 1366 | A Colostral Protein That Induces the Growth and Differentiation of Resting B Lymphocytes |
| F. Faure, S. Jitsukawa, F. Triebel, and T. Hercend | 1372 | CD3/Ti γ A: a Functional γ -Receptor Complex Expressed on Human Peripheral Lymphocytes |
| J. S. Cowdery and A. K. Pitts | 1380 | Role of T Cells in Regulating Expression of the B Cell Repertoire: Anti-ssDNA Precursor Frequency of DBA/2 B Cells Is Increased in the Presence of T Cells from NZB Mice |
| K. Kitamura, H. Kiyono, K. Fujihashi, J. H. Eldridge, K. W. Beagley, and J. R. McGhee | 1385 | Isotype-Specific Immunoregulation: Systemic Antigen Induces Splenic T Contrasuppressor Cells Which Support IgM and IgG Subclass but Not IgA Responses |
| G. D. Keizer, W. Visser, M. Viliem, and C. G. Figdor | 1393 | A Monoclonal Antibody (NKI-L16) Directed against a Unique Epitope on the α -Chain of Human Lymphocyte Function-Associated Antigen 1 Induces Homotypic Cell-Cell Interactions |
| M. E. Sanders, M. W. Makgoba, S. O. Sharrow, D. Stephany, T. A. Springer, H. A. Young, and S. Shaw | 1401 | Human Memory T Lymphocytes Express Increased Levels of Three Cell Adhesion Molecules (LFA-3, CD2, LFA-1) and Three Other Molecules (UCHL1, CDw29, and Pgp-1) and Have Enhanced IFN- γ Production |
| E. J. Gosselin, H.-P. Tony, and D. C. Parker | 1408 | Characterization of Antigen Processing and Presentation by Resting B Lymphocytes |
| C. E. Bueso-Ramos, R. M. Donahoe, J. K. A. Nicholson, J. J. Madden, and A. Falek | 1414 | Cytofluorometric Analyses of Human T Cell CD2/CD4 Inter-Molecular Interactions |
| T. Mizuochi and A. Singer | 1421 | Intrathymic Differentiation and Tolerance Induction of Lymphokine-Secreting Lyt-2 ⁺ T Helper Cells |
| J. Gordon, M. J. Millsum, G. R. Guy, and J. A. Ledbetter | 1425 | Resting B Lymphocytes Can Be Triggered Directly through the CDw40 (Bp50) Antigen: a Comparison with IL-4 Mediated Signaling |
| M. Papiernik, F. Lepault, and C. Pontoux | 1431 | Synergistic Effect of Colony-Stimulating Factors and IL-2 on Prothymocyte Proliferation Linked to the Maturation of Macrophage/Dendritic Cells within L3T4 ⁻ Lyt-2 ⁻ Ia ⁻ Mac ⁻ Cells |
| H. M. Serra, J. F. Krowka, J. A. Ledbetter, and L. M. Pilarski | 1435 | Loss of CD45R (Lp220) Represents a Post-Thymic T Cell Differentiation Event |
| F. Uher and H. B. Dickler | 1442 | Interactions between B Lymphocyte Subpopulations: Augmentation of the Responses of Resting B Lymphocytes by Activated B Lymphocytes |
| J. Degwert, J. Heuer, and E. Kölsch | 1448 | Specific In Vivo Suppression of Lymph Node Cell Proliferation and Humoral Immune Responses by Cloned Antigen-Specific T Suppressor Cells |
| J. G. Monroe | 1454 | Up-Regulation of <i>c-fos</i> Expression Is a Component of the mIg Signal Transduction Mechanism but Is Not Indicative of Competence for Proliferation |
| A. Wilson, A. D'Amico, T. Ewing, R. Scollay, and K. Shortman | 1461 | Subpopulations of Early Thymocytes: A Cross-Correlation Flow Cytometric Analysis of Adult Mouse Ly-2 ⁻ L3T4 ⁻ (CD8 ⁻ CD4 ⁻) Thymocytes Using Eight Different Surface Markers |
| A. Wilson, T. Ewing, T. Owens, R. Scollay, and K. Shortman | 1470 | T Cell Antigen Receptor Expression by Subsets of Ly-2 ⁻ L3T4 ⁻ (CD8 ⁻ CD4 ⁻) Thymocytes |

Continued on page 4

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- N. Seki, Y. Sudo, T. Yoshioka, S. Sugihara, T. Fujitsu, S. Sakuma, T. Ogawa, T. Hamakawa, H. Senoh, and H. Fujiwara 1477 Type II Collagen-Induced Murine Arthritis. I. Induction and Perpetuation of Arthritis Require Synergy between Humoral and Cell-Mediated Immunity
- A. J. C. Petit, M. Tersmette, F. G. Terpstra, R. E. Y. de Goede, R. A. W. van Lier, and F. Miedema 1485 Decreased Accessory Cell Function by Human Monocytic Cells after Infection with HIV
- R. R. Caspi, F. G. Roberge, C.-C. Chan, B. Wiggert, G. J. Chader, L. A. Rozenszajn, Z. Lando, and R. B. Nussenblatt 1490 A New Model of Autoimmune Disease: Experimental Autoimmune Uveoretinitis Induced in Mice with Two Different Retinal Antigens
- C. Heilmann, T. Barington, and T. Sigsgaard 1496 Subclass of Individual IgA-Secreting Human Lymphocytes: Investigation of In Vivo Pneumococcal Polysaccharide-Induced and In Vitro Mitogen-Induced Blood B Cells by Monolayer Plaque-Forming Cell Assays
- A. M. Lamas, C. M. Mulrone, and R. P. Schleimer 1500 Studies on the Adhesive Interaction between Purified Human Eosinophils and Cultured Vascular Endothelial Cells
- A. Billiau, H. Heremans, F. Vandekerckhove, R. Dijkmans, H. Sobis, E. Meulepas, and H. Carton 1506 Enhancement of Experimental Allergic Encephalomyelitis in Mice by Antibodies against IFN- γ

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- S. Heidenreich, M. Weyers, J.-H. Gong, H. Sprenger, M. Nain, and D. Gemsa 1511 Potentiation of Lymphokine-Induced Macrophage Activation by Tumor Necrosis Factor- α
- S. R. Carding and K. Bottomly 1519 IL-4 (B Cell Stimulatory Factor 1) Exhibits Thymocyte Growth Factor Activity in the Presence of IL-2
- J. L. Liesveld, C. N. Abboud, R. J. Looney, D. H. Ryan, and J. K. Brennan 1527 Expression of IgG Fc Receptors in Myeloid Leukemic Cell Lines: Effect of Colony-Stimulating Factors and Cytokines
- J. Van Damme, J. Van Beeumen, B. Decock, J. Van Snick, M. De Ley, and A. Billiau 1534 Separation and Comparison of Two Monokines with Lymphocyte-Activating Factor Activity: (IL-1 β and Hydrodima Growth Factor (HGF). Identification of Leukocyte-Derived HGF as IL-6
- P. M. Stuart, A. Zlotnik, and J. G. Woodward 1542 Induction of Class I and Class II MHC Antigen Expression on Murine Bone Marrow-Derived Macrophages by IL-4 (B Cell Stimulatory Factor 1)
- A. A. te Velde, J. P. G. Klomp, B. A. Yard, J. E. de Vries, and C. G. Figdor 1548 Modulation of Phenotypic and Functional Properties of Human Peripheral Blood Monocytes by IL-4
- L. A. Greenbaum, J. B. Horowitz, A. Woods, T. Pasqualini, E.-P. Reich, and K. Bottomly 1555 Autocrine Growth of CD4⁺ T Cells: Differential Effects of IL-1 on Helper and Inflammatory T Cells
- H. Hagiwara, T. Yokota, J. Luh, F. Lee, K.-I. Arai, N. Arai, and A. Zlotnik 1561 The AKR Thymoma BW5147 Is Able to Produce Lymphokines When Stimulated with Calcium Ionophore and Phorbol Ester
- L. F. L. Reis, J. Le, T. Hirano, T. Kishimoto, and J. Vilček 1566 AntiViral Action of Tumor Necrosis Factor in Human Fibroblasts Is Not Mediated by B Cell Stimulatory Factor 2/IFN- β_2 and Is Inhibited by Specific Antibodies to IFN- β
- F. X. Real, A. Carrato, M. H. Schuessler, S. Welt, and H. F. Oettgen 1571 IFN- γ -Regulated Expression of a Differentiation Antigen of Human Cells

Continued on page 5

IMMUNOCHEMISTRY

- | | | |
|---|------|---|
| M. E. Daoudaki, J. D. Becherer, and J. D. Lambris | 1577 | A 34-Amino Acid Peptide of the Third Component of Complement Mediates Properdin Binding |
| M. T. Michalek, E. G. Bremer, and C. Mold | 1581 | Effect of Gangliosides on Activation of the Alternative Pathway of Human Complement |
| M. T. Michalek, C. Mold, and E. G. Bremer | 1588 | Inhibition of the Alternative Pathway of Human Complement by Structural Analogues of Sialic Acid |
| U. Sjöbring, C. Falkenberg, E. Nielsen, B. Åkerström, and L. Björck | 1595 | Isolation and Characterization of a 14-kDa Albumin-Binding Fragment of Streptococcal Protein G |
| M. R. Walker, A. Solomon, D. T. Weiss, H. F. Deutsch, and R. Jefferis | 1600 | Immunogenic and Antigenic Epitopes of Ig. XXV. Monoclonal Antibodies That Differentiate the Mcg ⁺ /Mcg ⁻ and Oz ⁺ /Oz ⁻ C Region Isotypes of Human λ L Chains |
| J. M. Weiler and G. J. Gleich | 1605 | Eosinophil Granule Major Basic Protein Regulates Generation of Classical and Alternative-Amplification Pathway C3 Convertases In Vitro |

IMMUNOPHARMACOLOGY

- | | | |
|---|------|--|
| E. Pick and R. Gadba | 1611 | Certain Lymphoid Cells Contain the Membrane-Associated Component of the Phagocyte-Specific NADPH Oxidase |
| M. R. Elstad, S. M. Prescott, T. M. McIntyre, and G. A. Zimmerman | 1618 | Synthesis and Release of Platelet-Activating Factor by Stimulated Human Mononuclear Phagocytes |

MICROBIAL IMMUNOLOGY

- | | | |
|--|------|--|
| B. G. Weinshenker, S. Wilton, and G. P. A. Rice | 1625 | Phorbol Ester-Induced Differentiation Permits Productive Human Cytomegalovirus Infection in a Monocytic Cell Line |
| R. McLeod, J. K. Frenkel, R. G. Estes, D. G. Mack, P. B. Eisenhauer, and G. Gibori | 1632 | Subcutaneous and Intestinal Vaccination with Tachyzoites of <i>Toxoplasma gondii</i> and Acquisition of Immunity to Peroral and Congenital <i>Toxoplasma</i> Challenge |
| R. Schafer, C. A. Nacy, and T. K. Eisenstein | 1638 | Induction of Activated Macrophages in C3H/HeJ Mice by Avirulent <i>Salmonella</i> |
| M. F. Good, D. Pombo, W. L. Maloy, V. F. de la Cruz, L. H. Miller, and J. A. Berzofsky | 1645 | Parasite Polymorphism Present within Minimal T Cell Epitopes of <i>Plasmodium falciparum</i> Circumsporozoite Protein |

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- | | | |
|---|------|--|
| S. J. Currier, J. L. Gallarda, and K. L. Knight | 1651 | Partial Molecular Genetic Map of the Rabbit V _H Chromosomal Region |
| F. M. Rosa and M. Fellous | 1660 | Regulation of HLA-DR Gene by IFN- γ : Transcriptional and Post-Transcriptional Control |
| N. E. Lee and M. M. Davis | 1665 | T Cell Receptor β -Chain Genes in BW5147 and Other AKR Tumors: Deletion Order of Murine V _{β} Gene Segments and Possible 5' Regulatory Regions |

Continued from page 6

- D. Klein, J. Nietupski, S. Sirlin, and J. Stavnezer 1676 I.29 B Lymphoma Cells Express a Nonmutated V_H Gene before and after H Chain Switch
- R. Biassoni, S. Ferrini, I. Prigione, A. Moretta, and E. O. Long 1685 CD3-Negative Lymphokine-Activated Cytotoxic Cells Express the CD3 ϵ Gene
- S. Haskill, C. Johnson, D. Eierman, S. Becker, and K. Warren 1690 Adherence Induces Selective mRNA Expression of Monocyte Mediators and Proto-Oncogenes

TUMOR IMMUNOLOGY

- A. J. T. George, M. B. Spellerberg, and F. K. Stevenson 1695 Idiotypic Vaccination Leads to the Emergence of a Stable Surface Ig-Negative Variant of the Lymphoma BCL₁, with Different Growth Characteristics
- R. A. Hoffman, N. L. Ascher, M. L. Jordan, R. J. Migliori, and R. L. Simmons 1702 Characterization of the Natural Killer Activity Present in Sponge Matrix Allografts
- Letters to the Editor 1711
- Errata 1713
- Announcements 1713
- Author Index 1714