

LEGENDplex™ Immune Checkpoint Panels

Multi-Analyte Flow Assay Kits



The Journal of
Immunology

155 (5)

J Immunol 1995; 155:2303-2793; ;
<http://www.jimmunol.org/content/155/5.citation>

This information is current as
of November 15, 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.





TABLE OF CONTENTS

CUTTING EDGE

- 2303 Defective Ceramide Response in C3H/HeJ (*Lps^d*) Macrophages
Sheila A. Barber, Pin-Yu Perera, and Stefanie N. Vogel
- 2306 Molecular Cloning of NKB1: A Natural Killer Cell Receptor for HLA-B Allotypes
A. D'Andrea, C. Chang, K. Franz-Bacon, T. McClanahan, J. H. Phillips, and L. L. Lanier

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 2311 Expression of Bcl-2, Bcl-x, and Bax after T Cell Activation and IL-2 Withdrawal
H. Elizabeth Broome, Catherine M. Dargan, Stanislaw Krajewski, and John C. Reed
- 2318 IL-4 Plus CD40 Monoclonal Antibody Induces Human B Cells γ Subclass-Specific Isotype Switch: Switching to $\gamma 1$, $\gamma 3$, and $\gamma 4$, but Not $\gamma 2$
Shigeharu Fujieda, Ke Zhang, and Andrew Saxon
- 2329 Marked Conservation of Complementarity-Determining Region 3 of the β -Chain of TCRs Recognizing a Mycobacterial Heat Shock Protein 60-Derived Peptide with Strong Sequence Similarity to Human Heat Shock Protein 60
Jane C. Goodall, Judy Henwood, Paul A. Bacon, and J. S. Hill Gaston
- 2339 Autoimmunity Caused by Ignorant CD8⁺ T Cells Is Transient and Depends on Avidity
William R. Heath, Freda Karamalis, Jacqui Donoghue, and Jacques F. A. P. Miller
- 2350 Biased Liver T Cell Receptor V β Repertoire in a Murine Graft-Versus-Host Disease Model
Charles D. Howell, Jian Li, Ellen Roper, and Brian L. Kotzin
- 2359 Stimulation of Human Bone Marrow Stromal Cell Tyrosine Kinases and IL-6 Production by Contact with B Lymphocytes
Lisa J. Jarvis and Tucker W. LeBien

- 2369 Regulation of Human B Cell Function by Recombinant CD40 Ligand and Other TNF-Related Ligands
Michele D. Jumper, Yuichi Nishioka, Laurie S. Davis, Peter E. Lipsky, and Katheryn Meek
- 2379 Functional Expression and Recognition of Nonclassical MHC Class I T10^b Is Not Peptide-Dependent
Arunan Kaliyaperumal, Rocco Falchetto, Andrea Cox, Robert Dick II, Jeffrey Shabanowitz, Yueh-hsiu Chien, Louis Matis, Donald F. Hunt, and Jeffrey A. Bluestone
- 2387 Initiation of the Phosphocholine-Specific Response to *Proteus morganii*: B Cell Transfectants Expressing Unmutated V_H/V_L Can Respond to Stimulation by *P. morganii* Antigen
Steven J. Penner, Julia George, and J. Latham Clafin
- 2396 Kinetics of Th1 and Th2 Cytokine Production During the Early Course of Acute and Chronic Murine Graft-Versus-Host Disease: Regulatory Role of Donor CD8⁺ T Cells
Violetta Rus, Antonela Svetic, Phuong Nguyen, William C. Gause, and Charles S. Via
- 2407 Characterization of Human CD7 Transgenic Mice
Laura E. Schanberg, David M. Lee, Donald E. Fleenor, Russell E. Ware, Dhavalkumar D. Patel, Barton F. Haynes, and Russel E. Kaufman
- 2419 Alloreactive 2C T Cells Recognize a Self Peptide in the Context of the Mutant K^{bm3} Molecule
Michelle D. Tallquist and Larry R. Pease
- 2427 Deoxyspergualin Inhibits κ Light Chain Expression in 70Z/3 Pre-B Cells by Blocking Lipopolysaccharide-Induced NF- κ B Activation
Mark. A. Tepper, Steven G. Nadler, James M. Esselstyn and Kristine G. Sterbenz
- 2437 RANTES-Activated Human T Lymphocytes: A Role for Phosphoinositide 3-Kinase
Lynn Turner, Stephen G. Ward, and John Westwick
- 2445 Allelic Differences in the V_HO α -1 Gene Explain the Absence of a B Cell Clonal Dominance in the Primary Response of C57BL/6 Mice to Phthalate
David B. Winter, Margaret E. Diamond, Mahmoud Abu-hadid, Sabine Falkenberg, and Richard B. Bankert

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 2453 Extensive TCR Junctional Diversity of V γ 9/V δ 2 Clones from Human Female Reproductive Tissues
Stephen E. Christmas, Robert Brew, S. Melissa Thornton, Gunnur Deniz, and Brian F. Flanagan
- 2459 Activation of Nuclear Factor- κ B and Gene Expression in Human Endothelial Cells by the Common Haptens Nickel and Cobalt
Matthias Goebeler, Johannes Roth, Eva-Bettina Bröcker, Clemens Sorg, and Klaus Schulze-Osthoff

- 2468 HLA-DQ Polymorphisms Are Highly Selective for Peptide Binding Interactions
William W. Kwok, Gerald T. Nepom, and Fenella C. Raymond
- 2477 Organization, Regulatory Sequences, and Alternatively Spliced Transcripts of the Mucosal Addressin Cell Adhesion Molecule-1 (MAdCAM-1) Gene
S. O. Sampaio, X. Li, M. Takeuchi, C. Mei, U. Francke, E. C. Butcher, and M. J. Briskin
- 2487 Myeloma Ig Heavy Chain V Region Sequences Reveal Prior Antigenic Selection and Marked Somatic Mutation but No Intracлонаl Diversity
Robert A. Vescio, Jin Cao, Charlie H. Hong, Jong C. Lee, Chun H. Wu, Melina Der Danielian, Vincent Wu, Roland Newman, Alan K. Lichtenstein, and James R. Berenson
- 2498 Identification and Localization of a Developmental Stage-Specific Promoter Activity from the Murine $\lambda 5$ Gene
Jun Yang, Michele A. Glazak, and Bonnie B. Blomberg

HOST DEFENSE

- 2515 IL-12 Increases Resistance of BALB/c Mice to *Mycobacterium Tuberculosis* Infection
JoAnne L. Flynn, Marsha M. Goldstein, Karla J. Triebold, Joseph Sypek, Stanley Wolf, and Barry R. Bloom
- 2525 IL-12 Stimulates an Antiviral Type 1 Cytokine Response but Lacks Adjuvant Activity in IFN- γ -Receptor-Deficient Mice
Virgil E. C. J. Schijns, Bart L. Haagmans, and Marian C. Horzinek
- 2533 Progression of a Vesicular Stomatitis Virus Infection in Primary Lymphocytes Is Restricted at Multiple Levels During B Cell Activation
Madelyn R. Schmidt, Kathryn A. Gravel, and Robert T. Woodland
- 2545 IL-12-Induced Protection Against Blood-Stage *Plasmodium chabaudi* AS Requires IFN- γ and TNF- α and Occurs Via a Nitric Oxide-Dependent Mechanism
Mary M. Stevenson, Mi Fong Tam, Stanley F. Wolf, and Alan Sher
- 2557 Human C-Reactive Protein Is Protective Against Fatal *Streptococcus pneumoniae* Infection in Transgenic Mice
Alexander J. Szalai, David E. Bries, and John E. Volanakis
- 2564 Clearance of Adenovirus-Infected Hepatocytes by MHC Class I-Restricted CD4⁺ CTLs In Vivo
Yiping Yang and James M. Wilson

INFLAMMATION

- 2571 Decreased Binding of Specific Monomeric and Trimeric G-Proteins with the Plasma Membrane of Polymorphonuclear Leukocytes Exposed to Influenza A Virus
Jon S. Abramson and Holly R. Hudnor

- 2579 Adenosine Activates A₂ Receptors to Inhibit Neutrophil Adhesion and Injury to Isolated Cardiac Myocytes
David A. Bullough, Madeleine J. Magill, Gary S. Firestein, and Kevin M. Mullane
- 2587 Regulation of the Expression of IL-8 Receptor A/B by IL-8: Possible Functions of Each Receptor
Anan Chuntharapai and K. Jin Kim
- 2595 Comparative Studies of Cytotoxicity and the Release of TNF- α , Nitric Oxide, and Eicosanoids of Liver Macrophages Treated with Lipopolysaccharide and Liposome-Encapsulated MTP-PE
Peter Dieter, Petra Ambs, Edith Fitzke, Hiroyoshi Hidaka, Rolf Hoffmann, and Heike Schwende
- 2605 A Link Between Catalytic Activity, IgE-Independent Mast Cell Activation, and Allergenicity of Bee Venom Phospholipase A₂
Thomas Dudler, Denise Cantarelli Machado, Ludger Kolbe, Robert R. Annand, Nicholas Rhodes, Michael H. Gelb, Eckehart Koelsch, Mark Suter, and Birgit A. Helm
- 2614 Murine Mast Cells Express Two Types of C1q Receptors That Are Involved in the Induction of Chemotaxis and Chemokinesis
Berhane Ghebrehiwet, Richard R. Kew, Barry L. Gruber, Mary J. Marchese, Ellinor I. B. Peerschke, and Kenneth B. M. Reid
- 2620 Peptidoglycan Induces Transcription and Secretion of TNF- α and Activation of Lyn, Extracellular Signal-Regulated Kinase, and Rsk Signal Transduction Proteins in Mouse Macrophages
Dipika Gupta, Yi-ping Jin, and Roman Dziarski
- 2631 A Crucial Role for β 2 Integrin in the Activation of Eosinophils Stimulated by IgG
Masayuki Kaneko, Shiro Horie, Masahiko Kato, Gerald J. Gleich, and Hirohito Kita
- 2642 Complement Component C5: Engineering of a Mutant That Is Specifically Cleaved by the C4-Specific C1s Protease
Ronald T. Ogata and Pamela J. Low
- 2652 IL-3-Induced Histamine Release from Human Basophils: Dissociation from Cationic Dye Binding and Down-Regulation by Na⁺ and K⁺¹
Alberto Tedeschi, Mirella Palella, Nunzio Milazzo, Maurizio Lorini, and Antonio Miadonna
- 2661 A Novel Chemokine, Macrophage Inflammatory Protein-Related Protein-2, Inhibits Colony Formation of Bone Marrow Myeloid Progenitors
Byung-S. Youn, Ihn-K. Jang, Hal E. Broxmeyer, Scott Cooper, Nancy A. Jenkins, Debra J. Gilbert, Neal G. Copeland, Teresa A. Elick, Malcolm J. Fraser, Jr., and Byoung S. Kwon

CLINICAL IMMUNOLOGY

- 2668 Clinical Immunology Society Application
- 2670 Heterogeneous T Cell Responses to β -Lactam-Modified Self-Structures Are Observed in Penicillin-Allergic Individuals
Christian Brander, Daniela Mauri-Hellweg, Florence Bettens, Hanspeter Rolli, Michel Goldman, and Werner J. Pichler

- 2679 A Proteoglycan (Aggrecan)-Specific T Cell Hybridoma Induces Arthritis in BALB/c Mice
Edit I. Buzás, Frank R. Brennan, Katalin Mikecz, Magdolna Garzó, Gabriella Negroiu, Krisztina Holló, Gabriella Cs-Szabó, Éva Pintye, and Tibor T. Glant
- 2688 IL-13 Expression at the Sites of Allergen Challenge in Patients with Asthma
Shau-Ku Huang, Hui-Qing Xiao, Jörg Kleine-Tebbe, Giulio Paciotti, David G. Marsh, Lawrence M. Lichtenstein, and Mark C. Liu
- 2695 Unexpected Presence of Polyreactive Catalytic Antibodies in IgG from Unimmunized Donors and Decreased Levels in Rheumatoid Arthritis
Ravishankar Kalaga, Lan Li, James R. O'Dell, and Sudhir Paul
- 2703 T and B Cell Collaboration Is Essential for the Autoantibody Response to DNA Topoisomerase I in Systemic Sclerosis
Masataka Kuwana, Thomas A. Medsger, Jr., and Timothy M. Wright
- 2715 A Zona Pellucida 3 Peptide Vaccine Induces Antibodies and Reversible Infertility Without Ovarian Pathology
Yahuan Lou, Jennifer Ang, Huong Thai, Fairley McElveen, and Kenneth S. K. Tung
- 2721 Characterization of a Major Latex Allergen Associated with Hypersensitivity in Spina Bifida Patients
Liang-jun Lu, Viswanath P. Kurup, Donald R. Hoffman, Kevin J. Kelly, Pazhayannur S. Murali, and Jordan N. Fink
- 2729 Immunogenic HIV Variant Peptides That Bind to HLA-B8 Can Fail to Stimulate Cytotoxic T Lymphocyte Responses
Stephen McAdam, Paul Klenerman, Lynda Tussey, Sarah Rowland-Jones, David Lalloo, Rodney Phillips, Anne Edwards, Paul Giangrande, Andrew Leigh Brown, Frances Gotch, and Andrew McMichael
- 2737 Reversal of Acute Experimental Autoimmune Encephalomyelitis and Prevention of Relapses by Treatment with a Myelin Basic Protein Peptide Analogue Modified to Form Long-Lived Peptide-MHC Complexes
Michael F. Samson and Dawn Elaine Smilek
- 2747 The IFN Pregnancy Recognition Hormone IFN- τ Blocks Both Development and Superantigen Reactivation of Experimental Allergic Encephalomyelitis Without Associated Toxicity
Jeanne M. Soos, Prem S. Subramaniam, Amy C. Hobeika, Joel Schiffenbauer, and Howard M. Johnson
- 2754 Unmasking of Anti-Ribosomal P Autoantibodies in Healthy Individuals
Haraldine A. Stafford, Camille J. Anderson, and Morris Reichlin
- 2762 A Comparative Study of Experimental Autoimmune Encephalomyelitis in Lewis and DA Rats
Jolie A. Stepaniak, Karen E. Gould, Deming Sun, and Robert H. Swanborg
- 2770 Molecular Genetic Analysis of X-Linked Hypogammaglobulinemia and Isolated Growth Hormone Deficiency
Donn M. Stewart, Luigi D. Notarangelo, Carole C. Kurman, Louis M. Staudt, and David L. Nelson

- 2775 **Allogeneic Bronchoalveolar Lavage Cells Induce the Histology of Acute Lung Allograft Rejection, and Deposition of IgG2a in Recipient Murine Lungs**
David S. Wilkes, Kathleen M. Heidler, Linda K. Bowen, William M. Quinlan, Nicholas A. Doyle, Oscar W. Cummings, and Claire M. Doerschuk
- 2784 **HIV Predominantly Induces IL-1 Receptor Antagonist over IL-1 Synthesis in Human Primary Monocytes**
Flora Zavala, Anne-Cécile Rimaniol, François Boussin, Dominique Dormont, Jean-François Bach, and Béatrice Descamps-Latscha
- 2794 **Author Index**
- 2796 **Information for Authors**
- 2798 **Cutting Edge Information for Authors**
- 2799 **Submission Form: Full Length Articles**
- 2800 **Membership Application**
- 2801 **Submission Form: Cutting Edge**
- 2802 **Trainee Membership Application**