



Engineered Reporter Cell Lines

See-through immune signaling pathways

InVivoGen



155 (1)

J Immunol 1995; 155:2-507; ;
<http://www.jimmunol.org/content/155/1.citation>

This information is current as
of September 29, 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.



TABLE OF CONTENTS

CUTTING EDGE

- 522 **Commentary: Karoushi—Death by Overwork in the Immune System**
Lisa J. Glickstein and Brigitte T. Huber
- 525 **Commentary: Leukocyte Interactions with Vascular Endothelium: New Insights into Selectin-Mediated Attachment and Rolling**
Klaus Ley and Thomas F. Tedder
- 529 **The Native Structure of Intercellular Adhesion Molecule-1 (ICAM-1) Is a Dimer: Correlation with Binding to LFA-1**
Patricia L. Reilly, Joseph R. Woska, Jr., Deborah D. Jeanfavre, Eugene McNally, Robert Rothlein, and Barbara-Jean Bormann

OBITUARY

- 534 **Niels Kaj Jerne**

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 536 **Interference with Thymocyte Differentiation by an Inhibitor of S-Adenosylhomocysteine Hydrolase**
Patricia Benveniste, Weimin Zhu, and Amos Cohen
- 545 **Activation of B Lymphocyte Maturation by a Human Follicular Dendritic Cell Line, FDC-1**
Edward A. Clark, Kenneth H. Grabstein, Allen M. Gown, Marilyn Skelly, Tsuneyasu Kaisho, Toshio Hirano, and Geraldine L. Shu
- 556 **Cellular Interaction in Germinal Centers: Roles of CD40 Ligand and B7-2 in Established Germinal Centers**
Shuhua Han, Karen Hathcock, Biao Zheng, Thomas B. Kepler, Richard Hodes, and Garnett Kelsoe
- 568 **A Novel Cell Surface Antigen, Immature Thymocyte Antigen-1, Is Involved in the Differentiation of Murine Thymocytes**
Hiroyuki Kishi, Dong-Ming Su, Atsushi Muraguchi, and Takeshi Watanabe

- 578 Requirement for Natural Killer Cells in the Induction of Cytotoxic T Cells
Ferdynand J. Kos and Edgar G. Engleman
- 585 Polarized Type 2 Alloreactive CD4⁺ and CD8⁺ Donor T Cells Fail to Induce Experimental Acute Graft-Versus-Host Disease
Werner Krenger, Kurt M. Snyder, John C. H. Byon, Giorgio Falzarano, and James L. M. Ferrara
- 594 The Role of Self Peptides in the Allogeneic Cross-Reactivity of CTLs
Kiyotaka Kuzushima, Rui Sun, Grada M. van Bleek, Zsuzsa Vegh, and Stanley G. Nathenson
- 602 Morphologic and Functional Characterization of Perforin-Deficient Lymphokine-Activated Killer Cells
Chau-Ching Liu, Craig M. Walsh, Nozomu Eto, William R. Clark, and John Ding-E Young
- 609 Transforming Growth Factor β 1 Costimulated Growth and Regulatory Function of Staphylococcal Enterotoxin B-Responsive CD8⁺ T Cells
Susan Rich, Mary Seelig, Hon-Man Lee, and Jin Lin
- 619 Temporal and Spatial Expression of *HLA-G* Messenger RNA in Extraembryonic Tissues of Transgenic Mice
Cynthia M. Schmidt, Hua Lin Chen, Iwen Chiu, Robert G. Ehlenfeldt, Joan S. Hunt, and Harry T. Orr
- 630 Efficient Internalization of MHC Class II-Invariant Chain Complexes Is Not Sufficient for Invariant Chain Proteolysis and Class II Antigen Presentation
Kevin Swier and Jim Miller
- 644 Differential Expression of the Blk and Ret Tyrosine Kinases During B Lineage Development Is Dependent on Ig Rearrangement
Robert Wasserman, Yue-Sheng Li, and Richard R. Hardy
- 652 Immunoreceptor Tyrosine-Based Activation Motif Is Required to Signal Pathways of Receptor-Mediated Growth Arrest and Apoptosis in Murine B Lymphoma Cells
Xiao-rui Yao, Heinrich Flaswinkel, Michael Reth, and David W. Scott

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 662 Lack of Strict Correlation of Functional Sensitization with the Apparent Affinity of MHC/Peptide Complexes for the TCR
Basel K. Al-Ramadi, Marie T. Jelonek, Lisa F. Boyd, David H. Margulies, and Alfred L. M. Bothwell
- 674 Lipopolysaccharide-Induced Expression of TNF- α Gene in the Macrophage Cell Line ANA-1 Is Regulated at the Level of Transcription Processivity
Arya Biragyn and Sergei A. Nedospasov
- 684 Transchromosomally Derived Ig Heavy Chains
Katherine L. Knight, Mae Kingzette, Mary A. Crane, and Shi-Kang Zhai
- 692 Clustering of Diverse Replicated Sequences in the MHC: Evidence for En Bloc Duplication
Chanvit Leelayuwat, Mario Pinelli, and Roger L. Dawkins

- 699 Structure and Diversity of the T Cell Antigen Receptor β -Chain in a Teleost Fish
Sylvie Partula, Arnaud de Guerra, Julien S. Fellah, and Jacques Charlemagne
- 707 Comparative Studies of Transcytosis and Assembly of Secretory IgA in Madin-Darby Canine Kidney Cells Expressing Human Polymeric Ig Receptor
Carol M. Tamer, Michael E. Lamm, Janet K. Robinson, Janet F. Piskurich, and Charlotte S. Kaetzel
- 715 Dimeric and Tetrameric IgA Are Transcytosed Equally by the Polymeric Ig Receptor
Wenxia Song, Jean-Pierre Vaerman, and Keith E. Mostov

HOST DEFENSE

- 722 Neutralization of IL-10 Increases Survival in a Murine Model of *Klebsiella* Pneumonia
Marc J. Greenberger, Robert M. Strieter, Steven L. Kunkel, Jean M. Danforth, Richard E. Goodman, and Theodore J. Standiford
- 730 Endogenous IL-12 Is Required for Control of Th2 Cytokine Responses Capable of Exacerbating Leishmaniasis in Normally Resistant Mice
Frederick P. Heinzel, Ronald M. Rerko, Farah Ahmed, and Eric Pearlman
- 740 Co-Segregation of Tumor Immunogenicity with Expression of Inducible but Not Constitutive hsp70 in Rat Colon Carcinomas
Antoine Ménoret, Yaël Patry, Cedric Burg, and Jacques Le Pendu
- 748 Immunization with a Single T Helper Cell Epitope Abrogates Friend Virus-Induced Early Erythroid Proliferation and Prevents Late Leukemia Development
Masaaki Miyazawa, Ryuichi Fujisawa, Chiaki Ishihara, Yumiko A. Takei, Takeyuki Shimizu, Hirohide Uenishi, Hideo Yamagishi, and Kagemasa Kuribayashi
- 759 Staphylococcal Enterotoxin B-Activated T Cells Can Be Redirected To Inhibit Multicycle Virus Replication
Thomas M. Moran, Eugene Toy, Yukiko Kuzu, Hiroshi Kuzu, Hidecki Isobe, and Jerome L. Schulman
- 766 HLA-A2-Restricted Cytotoxic T Lymphocyte Responses to Multiple *Plasmodium falciparum* Sporozoite Surface Protein 2 Epitopes in Sporozoite-Immunized Volunteers
Benjamin Wizel, Richard Houghten, Preston Church, John A. Tine, David E. Lanar, Daniel M. Gordon, W. Ripley Ballou, Alessandro Sette, and Stephen L. Hoffman
- 776 Role of Protein Kinase C Isozymes in Fc γ Receptor-Mediated Intracellular Killing of *Staphylococcus aureus* by Human Monocytes
Limin Zheng, Timo P. L. Zomerdijk, Corlien Aarnoudse, Ralph van Furth, and Peter H. Nibbering
- 785 IL-12 Prevents Mortality in Mice Infected with *Histoplasma capsulatum* Through Induction of IFN- γ
Ping Zhou, Myra C. Sieve, John Bennett, Kyung J. Kwon-Chung, Ram P. Tewari, Ricardo T. Gazzinelli, Alan Sher, and Robert A. Seder

INFLAMMATION

- 796 Regulation of Cyclooxygenase-2 Expression in Normal Human Articular Chondrocytes
Yu Geng, Francisco J. Blanco, Michael Cornelisson, and Martin Lotz
- 802 Characterization of a Hypoxia-Responsive Adhesion Molecule for Leukocytes on Human Endothelial Cells
Irene Ginis, Steven J. Mentzer, Xiopu Li, and Douglas V. Faller
- 811 CD38-Mediated Ribosylation of Proteins
J. Christopher Grimaldi, Sriram Balasubramanian, Nisha H. Kabra, Armen Shanafelt, J. Fernando Bazan, Gerard Zurawski, and Maureen C. Howard
- 818 Prostaglandin Synthase 1 and Prostaglandin Synthase 2 Both Participate in Activation-Induced Prostaglandin D₂ Production in Mast Cells
Ryo Kawata, Srinivasa T. Reddy, Branden Wolner, and Harvey R. Herschman
- 826 Activation of the Classical Pathway of Complement by Tobacco Glycoprotein (TGP)
Susan M. Koethe, Kristin E. Nelson, and Carl G. Becker
- 836 A Cyclic Adenosine 3',5'-Monophosphate Signal Is Required for the Induction of IL-1 β by TNF- α in Human Monocytes
Jennifer J. Lorenz, Paul J. Furdon, J. David Taylor, Margrith W. Verghese, Gyan Chandra, Thomas A. Kost, Stephen A. Haneline, Lisa A. Roner, and John G. Gray
- 845 IL-4 Promotes Macrophage Development by Rapidly Stimulating Lineage Restriction of Bipotent Granulocyte-Macrophage Colony-Forming Cells
Sian E. Nicholls, Clare M. Heyworth, T. Michael Dexter, Janet M. Lord, Gerald D. Johnson, and Anthony D. Whetton
- 854 Activation of Lymphocyte Function-Associated Molecule-1 (CD11a/CD18) and Mac-1 (CD11b/CD18) Mimicked by an Antibody Directed Against CD18
Lilli Petruzzelli, Lisa Maduzia, and Timothy A. Springer
- 867 Fibrin Activation of Vascular Endothelial Cells: Induction of IL-8 Expression
Jiafan Qi and Donald L. Kreutzer
- 877 Inhibition of TNF-Triggering Activity of Lipopolysaccharide by a Proteinaceous Factor from Normal Mouse Liver Extract
Motonobu Satoh, Tadashi Matsumura, Mitsunori Nakamoto, and Masatoshi Yamazaki
- 886 Exogenous Nitric Oxide Regulates IFN- γ Plus Lipopolysaccharide-Induced Nitric Oxide Synthase Expression in Mouse Macrophages
Lynn A. Sheffler, David A. Wink, Giovanni Melillo, and George W. Cox
- 895 Thrombin Induces IL-6 Production in Fibroblasts and Epithelial Cells: Evidence for the Involvement of the Seven-Transmembrane Domain (STD) Receptor for α -Thrombin
Laurie E. Sower, Christopher J. Froelich, Darrell H. Carney, John W. Fenton II, and Gary R. Kimpel

- 902 Transcriptional Activation of the Human TNF- α Promoter by Superantigen in Human Monocytic Cells: Role of NF- κ B
Nikolaus S. Trede, Alla V. Tsytsykova, Talal Chatila, Anne E. Goldfeld, and Raif S. Geha

CLINICAL IMMUNOLOGY

- 910 Induction of Oral Tolerance to Myelin Basic Protein in CD8-Depleted Mice: Both CD4⁺ and CD8⁺ Cells Mediate Active Suppression
Youhai Chen, Jun-ichi Inobe, and Howard L. Weiner
- 917 HIV gp120 Inhibits T Cell Activation by Interfering with Expression of Costimulatory Molecules CD40 Ligand and CD80 (B71)
Narendra Chirmule, Thomas W. McCloskey, Rong Hu, Vaniambadi S. Kalyanaraman, and Savita Pahwa
- 925 Engineered Anti-CD38 Monoclonal Antibodies for Immunotherapy of Multiple Myeloma
Jonathan H. Ellis, Karen A. Barber, Alison Tutt, Christine Hale, Alan P. Lewis, Martin J. Glennie, George T. Stevenson, and J. Scott Crowe
- 938 Vascular Cell Adhesion Molecule-Ig Fusion Protein Selectively Targets Activated α_4 -Integrin Receptors in Vivo: Inhibition of Autoimmune Diabetes in an Adoptive Transfer Model in Nonobese Diabetic Mice
Aniela Jakubowski, Barbara Newman Ehrenfels, R. Blake Pepinsky, and Linda C. Burkly
- 947 Inhibition of Theiler's Virus-Mediated Demyelination by Peripheral Immune Tolerance Induction
William J. Karpus, Jonathan G. Pope, Jeffrey D. Peterson, Mauro C. Dal Canto, and Stephen D. Miller
- 958 Immunization of a Rabbit with β 2-Glycoprotein I Induces Charge-Dependent Crossreactive Antibodies that Bind Anionic Phospholipids and Have Similar Reactivity as Autoimmune Anti-Phospholipid Antibodies
Steven Kouts, Min-Xia Wang, Stephen Adelstein, and Steven A. Krilis
- 967 Cross-Reactive Antibodies Have Both Protective and Pathogenic Potential
Wacharee Limpanasithikul, Subhransu Ray, and Betty Diamond
- 974 Rapid Development of Murine AIDS Is Dependent on Signals Provided by CD54 and CD11a
Masahiko Makino, Kazuhiko Yoshimatsu, Miyuki Azuma, Yoshiaki Okada, Yasumichi Hitoshi, Hideo Yagita, Kiyoshi Takatsu, and Katsutoshi Komuro
- 982 T Cell Recognition of Immunodominant and Cryptic Proteolipid Protein Epitopes in Humans
Silva Markovic-Plese, Hikoaki Fukaura, Jingwu Zhang, Ahmad Al-Sabbagh, Scott Southwood, Alessandro Sette, Vijay K. Kuchroo, and David A. Hafler
- 993 Autoantibodies Against β -Crystallins Induce Lens Epithelial Cell Damage and Cataract Formation in Mice
Dhirendra P. Singh, Siradanahalli C. Guru, Takanobu Kikuchi, Toshiaki Abe, and Toshimichi Shinohara

- 1000 Chimeric ζ -Receptors Direct Human Natural Killer (NK) Effector Function to Permit Killing of NK-Resistant Tumor Cells and HIV-Infected T Lymphocytes
Annie-Chen Tran, Dezhen Zhang, Randal Byrn, and Margo R. Roberts
- 1010 Author Index
- 1012 Information for Authors
- 1014 Cutting Edge Information for Authors
- 1015 Submission Form: Full Length Articles
- 1016 Membership Application
- 1017 Submission Form: Cutting Edge
- 1018 Trainee Membership Application