The Journal of Immunology

157 (12)

J Immunol 1996; 157:5221-5754; http://www.jimmunol.org/content/157/12.citation

This information is current as of January 21, 2018.

Why The JI?

- **Rapid Reviews! 30 days** from submission to initial decision
- **No Triage!** Every submission reviewed by practicing scientists
- **Speedy 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
TABLE OF CONTENTS

CUTTING EDGE

5221 Leukotriene-Deficient Mice Manifest Enhanced Lethality from Klebsiella Pneumonia in Association with Decreased Alveolar Macrophage Phagocytic and Bactericidal Activities
Marc B. Bailie, Theodore J. Standiford, Lauri L. Laichalk, Michael J. Coffey, Robert Streiter, and Marc Peters-Golden

5225 Induction of Nonpathologic, Humoral Autoimmunity in Lupus-Prone Mice by a Class II-Restricted, Transgenic αβ T Cell: Separation of Autoantigen-Specific and -Nonspecific Help
Stanford L. Peng, Saeed Fatenejad, and Joe Craft

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

5231 Partial Mediation of Glucocorticoid Antiproliferative Effects by Lipocortins
Wassim Y. Almawi, Myrna S. Saouda, Anthony C. Stevens, Mark L. Lipman, Claudia M. Barth, and Terry B. Strom

5240 IL-16 Inhibition of CD3-Dependent Lymphocyte Activation and Proliferation
William W. Cruikshank, Kaiser Lim, Arthur C. Theodore, Jennifer Cook, Gregg Fine, Peter F. Weller, and David M. Center

5249 Thymic Expression of Myelin Basic Protein (MBP): Activation of MBP-Specific T Cells by Thymic Cells in the Absence of Exogenous MBP
Robert B. Fritz and Ming-Lang Zhao

5254 Reversal of Immunosuppression Inducible Through Ultraviolet-Exposed Skin by In Vivo Anti-CD11b Treatment
Craig Hammerberg, Nandini Duraiswamy, and Kevin D. Cooper

5262 CD100 Is Associated with CD45 at the Surface of Human T Lymphocytes: Role in T Cell Homotypic Adhesion
Cécile Hérold, Abdellah Elhabazi, Georges Bismuth, Armand Bensussan, and Lawrence Boumsell

5269 Induction of Anergy in CD8 T Cells by B Cell Presentation of Antigen
Per Höllsberg, Vandhna Batra, Alexander Dressel, and David A. Hafler
Activation of Nuclear Factor-κB via T Cell Receptor Requires a Raf Kinase and Ca\textsuperscript{2+} Influx: Functional Synergy Between Raf and Calcineurin
Tomohiko Kanno and Ulrich Siebenlist

Regulatory T Cells in Maintenance and Reversal of Peripheral Tolerance In Vivo
Young-Yun Kong, Masatoshi Eto, Kazuya Omoto, Masatoshi Umesue, Asako Hashimoto, and Kikuo Nomoto

Rapid Commitment to Negative Selection of a Thymocyte Line Independent of CD4 Co-Engagement
Jean-Paul Kovalik, Bijan Ansari, and Mark Boothby

Memory T Cell Development in the Absence of Specific Antigen Priming
William T. Lee, Jocelyn Cole-Calkins, and Nancy E. Street

Preferential Involvement of G\textsubscript{o} and G\textsubscript{z} Proteins In Mediating Rat Natural Killer Cell Lysis of Allogeneic and Tumor Target Cells
Azzam A. Maghazachi, Ala Al-Aoukaty, Christian Naper, Knut Martin Torgersen, and Bent Rolstad

Impaired Survival and Proliferation in IL-7 Receptor-Deficient Peripheral T Cells
Eugene Maraskovsky, Mark Teepe, Philip J. Morrissey, Steven Braddy, Robert E. Miller, David H. Lynch, and Jacques J. Peschon

δ Opioid Receptor Expression Is Induced by Concanavalin A in CD4\textsuperscript{+} T Cells
Bonnie Miller

Maturation of the Antibody Response to the Major Epitope on the Self Antigen Mouse Cytochrome c: Restricted V Gene Usage, Selected Mutations, and Increased Affinity
Carolyn M. Mueller and Ronald Jemmerson

Inhibition of Protein Kinase C-Mediated CD4 Down-Regulation by Oxidative Stress in T Lymphocytes
Kazuhiro Nakamura, Tetsuro Sasada, Hiroshi Sono, and Junji Yodoi

IL-2 Induces β\textsubscript{2}-Integrin Adhesion via a Wortmannin/LY294002-Sensitive, Rapamycin-Resistant Pathway: Phosphorylation of a 125-Kilodalton Protein Correlates with Induction of Adhesion, but Not Mitogenesis
Mette Nielsen, Arne Svejgaard, Søren Skov, Pauline Dobson, Klaus Bendtzen, Carsten Geisler, and Niels Ørum

Lineage-Specific Control of Superantigen-Induced Cell Death by the Protein Tyrosine Kinase p56\textsuperscript{lok}
Josef M. Penninger, Valerie A. Wallace, Thierry Molina, and Tak W. Mak

Biochemical and Serologic Evidence for the Existence of Functionally Distinct Forms of the CD94 NK Cell Receptor
Juan J. Pérez-Villar, Marta Carretero, Francisco Navarro, Ignacio Melero, Antonio Rodríguez, Cristina Bottino, Alessandro Moretta, and Miguel López-Botet

Impaired Immune Responses Toward Alloantigens and Tumor Cells but Normal Thymic Selection in Mice Deficient in the β\textsubscript{2} Integrin Leukocyte Function-Associated Antigen-1
Peter Shier, Gail Otulakowski, Karen Ngo, Julie Panakos, Erika Chourmouzis, Lisa Christjansen, Catherine Y. Lau, and Wai-Ping Fung-Leung
5387 A Major Role for the Fas Pathway in Acute Graft-Versus-Host Disease
Charles S. Via, Phuong Nguyen, Andrei Shustov, Joern Drappa, and Keith B. Elkon

5394 Rapid Immune Activation by CpG Motifs in Bacterial DNA: Systemic Induction of IL-6 Transcription Through an Antioxidant-Sensitive Pathway
Ae-Kyung Yi, Dennis M. Klinman, Thomas L. Martin, Sara Matson, and Arthur M. Krieg

Molecular and Structural Immunology

5403 Assembly, Specific Binding, and Crystallization of a Human TCR-αβ with an Antigenic Tax Peptide from Human T Lymphotropic Virus Type 1 and the Class I MHC Molecule HLA-A2
David N. Garboczi, Ursula Utx, Partho Ghosh, Alpna Seth, Jongsun Kim, Esther A. E. VanTienhoven, William E. Biddison, and Don C. Wiley

5411 Cloning of the Human Platelet Endothelial Cell Adhesion Molecule-1 Promoter and Its Tissue-Specific Expression: Structural and Functional Characterization
Nuria Almendro, Teresa Bellón, Carlos Rius, Pedro Lastres, Carmen Langa, Angel Corbí, and Carmelo Bernabéu

5422 Identification of a Heparin Binding Domain in the Seventh Short Consensus Repeat of Complement Factor H
Timothy K. Blackmore, Tania A. Sadlon, Helena M. Ward, Douglas M. Lublin, and David L. Gordon

5428 Identification of the Rhesus Monkey HLA-G Ortholog: Mamu-G is a Pseudogene
Jonathan E. Boyson, Kristen K. Iwanaga, Thaddeus G. Golos, and David I. Watkins

5438 CD97 is a Processed, Seven-Transmembrane, Heterodimeric Receptor Associated with Inflammation
James X. Gray, Makoto Haino, Mark J. Roth, Jean E. Maguire, Peter N. Jensen, Adam Yarme, Mary-Alice Stetler-Stevenson, Ulrich Siebenlist, and Kathleen Kelly

5448 Localization to Chromosome 22 of a Gene Encoding a Human Minor Histocompatibility Antigen
Michael I. Gubarev, James C. Jenkin, Mark F. Leppert, Glenn S. Buchanan, Brith E. Ottemd, Davis A. Guilbert, and Patrick G. Beatty

5455 Cloning of the Mouse Fusin Gene, Homologue to a Human HIV-1 Co-Factor
Michael Heesen, Michael A. Berman, John D. Benson, Craig Gerard, and Martin E. Dorf

5461 Genomic Structure and Mapping of Human FADD, an Intracellular Mediator of Lymphocyte Apoptosis
Peter K. M. Kim, Amalia S. Dutra, Settera C. Chandrasekharappa, and Jennifer M. Puck

5467 Multiple Regions of the Transporter Associated with Antigen Processing (TAP) Contribute to Its Peptide Binding Site
Marga Nijenhuis and Günter J. Hämerling
Gene Conversion Contributes to Ig Light Chain Diversity in Cattle
Chuen-Lei Parng, Susan Hansal, Richard A. Goldsby, and Barbara A. Osborne

HLA-DM Is Present in One-Fifth the Amount of HLA-DR in the Class II Peptide-Loading Compartment Where It Associates with Leupeptin-Induced Peptide (LIP)-HLA-DR Complexes
Peter H. Schafer, Jennifer M. Green, Sunil Malapati, Lin Gu, and Susan K. Pierce

HOST DEFENSE

Identification of a Borrelia burgdorferi OspA T Cell Epitope That Promotes Anti-OspA IgG in Mice
Linda K. Bockenstedt, Erol Fikrig, Stephen W. Barthold, Richard A. Flavell, and Fred S. Kantor

A Nine-Amino Acid Peptide from IL-1β Augments Antitumor Immune Responses Induced by Protein and DNA Vaccines
Itzhak Hakim, Shoshana Levy, and Ronald Levy

Non-Small Cell Lung Cancer-Derived Soluble Mediators and Prostaglandin E2 Enhance Peripheral Blood Lymphocyte IL-10 Transcription and Protein Production
Min Huang, Sherven Sharma, Jenny T. Mao, and Steven M. Dubinett

Induction of γδ T Cells During Acute Murine Infection with Toxoplasma gondii
Lloyd H. Kasper, Tadashi Matsuda, Sujeeva Fonseka, Janice Arruda, Jacqueline Y. Channon, and Imtiaz A. Khan

Neutralizing and Infection-Enhancing Antibody Responses Do Not Correlate with the Differential Pathogenicity of SIVmac239A3 in Adult and Infant Rhesus Monkeys
David C. Montefiori, Timothy W. Baba, An Li, Mirosława Bilska, and Ruth M. Ruprecht

Immunotherapy of Experimental Metastases by Vaccination with Interleukin Gene-Transduced Adenocarcinoma Cells Sharing Tumor-Associated Antigens: Comparison Between IL-12 and IL-2 Gene-Transduced Tumor Cell Vaccines
Monica Rodolfo, Chiara Zilocchi, Cecilia Melani, Barbara Cappetti, Ivano Arioli, Giorgio Parmiani, and Mario P. Colombo

Analysis of Cytotoxic T Cell Responses to Dominant and Subdominant Epitopes During Acute and Chronic Lymphocytic Choriomeningitis Virus Infection
Robbert G. van der Most, Alessandro Sette, Carla Oseroff, Jeff Alexander, Kaja Murali-Krishna, Lisa L. Lau, Scott Southwood, John Sidney, Robert W. Chesnut, Mehrdad Matloubian, and Rafi Ahmed

Immunodominance Analysis of CTL Responses to Influenza PR8 Virus Reveals Two New Dominant and Subdominant Kb-Restricted Epitopes
Antonella Vitiello, Lunli Yuan, Robert W. Chesnut, John Sidney, Scott Southwood, Peggy Farness, Michael R. Jackson, Per A. Peterson, and Alessandro Sette
TNF Receptor p55 Plays a Major Role in Centrally Mediated Increases of Serum IL-6 and Corticosterone After Intracerebroventricular Injection of TNF

Fabio Benigni, Raffaella Faggioni, Marina Sironi, Giamila Fantuzzi, Peter Vandenabeele, Nozomi Takahashi, Silvano Sacco, Walter Fiers, Wim A. Buurman, and Pietro Ghezzi

Dietary n-3 Fatty Acids Increase Spleen Size and Postendotoxin Circulating TNF in Mice; Role of Macrophages, Macrophage Precursors, and Colony-Stimulating Factor-1


Differential Regulation of the C3a and C5a Receptors (CD88) by IFN-γ and PMA in U937 Cells and Related Myeloblastic Cell Lines

Michael Burg, Ulrich Martin, Daniel Bock, Claudia Rheinheimer, Jörg Köhl, Wilfried Bautsch, and Andreas Klos

Basophil Priming by Neurotrophic Factors: Activation Through the trk Receptor

Beatrice Bürgi, Uwe H. Otten, Brigitte Ochensberger, Silvia Rihs, Klaus Heese, Patricia B. Ehrhard, Carlos F. Ibanez, and Clemens A. Dahinden

Potential Role of Membrane Internalization and Vesicle Fusion in Adhesion of Neutrophils in Response to Lipopolysaccharide and TNF

Patricia A. Detmers, Nathalie Thieblemont, Thierry Vasselon, Rossitza Pironkova, David S. Miller, and Samuel D. Wright

Induction of the CD11b Gene During Activation of the Monocytic Cell Line U937 Requires a Novel Nuclear Factor MS-2

Omid C. Farokhzad, C. Simon Shelley, and M. Amin Arnaout

Phosphorylation by a G Protein-Coupled Kinase Inhibits Signaling and Promotes Internalization of the Monocyte Chemoattractant Protein-1 Receptor: Critical Role of Carboxyl-Tail Serines/Threonines in Receptor Function

Christian Franci, Jennifa Gosling, Chia-Lin Tsou, Shaun R. Coughlin, and Israel F. Charo

Human Monocyte Chemoattractant Protein (MCP)-4 Is a Novel CC Chemokine with Activities on Monocytes, Eosinophils, and Basophils Induced in Allergic and Nonallergic Inflammation That Signals Through the CC Chemokine Receptors (CCR)-2 and -3

Eduardo A. Garcia-Zepeda, Christophe Combadiere, Marc E. Rothenberg, Mindy N. Sarafi, Frank Lavigne, Qutayba Hamid, Philip M. Murphy, and Andrew D. Luster

Induction of the P2Z/P2X7 Nucleotide Receptor and Associated Phospholipase D Activity by Lipopolysaccharide and IFN-γ in the Human THP-1 Monocytic Cell Line

Benjamin D. Humphreys and George R. Dubyak

Differential Activation of Human Platelets Induced by Fcγ Receptor II Cross-Linking and by Anti-CD9 Monoclonal Antibody

Ruomei Qi, Yukio Ozaki, Kenji Kuroda, Naoki Asazuma, Yutaka Yatomi, Kaneo Satoh, Shosaku Nomura, and Shoji Kume
Effect of Anti-IgE Antibodies on FceRI-Bound IgE
Michael P. Rudolf, Kazuhiro Furuikawa, Sylvia Miescher, Monique Vogel, Franz Kricek, and Beda M. Stadler

Protease-Resistant L-Selectin Mutants: Down-Modulation by Cross-Linking but Not Cellular Activation
John H. Stoddart, Jr., Rahul R. Jasiuja, Maria A. Sikorski, Ulrich H. von Andrian, and James W. Mier

CR3 (α₅β₂; CD11b/CD18) Restores IgG-Dependent Phagocytosis in Transfectants Expressing a Phagocytosis-Defective FcγRIIA (CD32) Tail-Minus Mutant
Randall G. Worth, Laura Mayo-Bond, Jan G. J. van de Winkel, Robert F. Todd III, and Howard R. Petty

**CLINICAL IMMUNOLOGY**

Peripheral Blood Mononuclear Cells of Insulin-Dependent Diabetic Patients Respond to Multiple Islet Cell Proteins
Barbara M. Brooks-Worrell, Gordon A. Starkebaum, Carla Greenbaum, and Jerry P. Palmer

IFN-α Therapy Is Effective in Suppressing the Clinical Experimental Myasthenia Gravis
Caishu Deng, Elxbieta Goluszko, Samuel Baron, Bo Wu, and Premkumar Christadass

Specific Clonal T Cell Accumulation in Intestinal Lesions of Crohn’s Disease
Atsushi Nakajima, Tatsuhiko Kodama, Yoshio Yazaki, Masakazu Takazoe, Norijumi Saito, Ryoichi Suzuki, Haruo Nishino, Kazuhiko Yamamoto, Jack Silver, and Nobuyuki Matsuhashi

Propagation and Regulation of Systemic Autoimmunity by γδ T Cells
Stanford L. Peng, Michael P. Madaio, Adrian C. Hayday, and Joe Craft

The Balance Between Persistent Virus Infection and Immune Cells Determines Demyelination
Moses Rodriguez, Kevin D. Pavelko, M. Kariuki Njenga, William C. Logan, and Peter J. Wettstein

Antigen-Specific Cytotoxic T Cells Mediate Human Fetal Pancreas Allograft Rejection in SCID-hu Mice
Mathieu Rouleau, Reiko Namikawa, Svetlana Antonenko, Nicole Carballido-Perrig, and Maria Grazia Roncarolo

The Length of Treatment Determines Whether IFN-β Prevents or Aggravates Experimental Autoimmune Encephalomyelitis in Lewis Rats

The Anti-β₂-Glycoprotein I Activity in Human Anti-Phospholipid Syndrome Sera Is Due to Monoreactive Low-Affinity Autoantibodies Directed to Epitopes Located on Native β₂-Glycoprotein I and Preserved During Species’ Evolution
Angela Tincani, Laura Spatola, Enrica Prati, Flavio Allegrì, Piero Ferremi, Roberto Cattaneo, Pierluigi Meroni, and Genesio Balestrieri
Restricted TCR Repertoire and Long-Term Persistence of Donor-Derived Antigen-Experienced CD4+ T Cells in Allogeneic Bone Marrow Transplantation Recipients
Monica Vavassori, Rita Maccario, Antonia Moretta, Patrizia Comoli, Andreas Wack, Franco Locatelli, Antonio Lanzavecchia, Emanuela Maserati, Paolo Dellabona, Giulia Casorati, and Daniela Montagna

Prolactin Administration Following Hemorrhagic Shock Improves Macrophage Cytokine Release Capacity and Decreases Mortality from Subsequent Sepsis
René Zellweger, Xiao-Hong Zhu, Matthias W. Wichmann, Alfred Ayala, Catherine M. DeMaso, and Irshad H. Chaudry

Author Index

Ad Hoc Reviewers

Author Index to Volume 157

Subject Index to Volume 157