This information is current as of July 27, 2017.

157 (10)

J Immunol 1996; 157:4273-4735; ;
http://www.jimmunol.org/content/157/10.citation

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

4273  Commentary: Terra Firma: A Retreat from “Danger”
Rodney E. Langman and Melvin Cohn

4277  Protection Against Fas/APO-1- and Tumor Necrosis Factor-Mediated Cell
Death by a Novel Protein, Sentrin
Takafumi Okura, Limin Gong, Tetsu Kamitani, Torazo Wada, Izumi Okura,
Chik-Fong Wei, Hui-Ming Chang, and Edward T. H. Yeh

4282  IL-15 Can Substitute for the Marrow Microenvironment in the
Differentiation of Natural Killer Cells
Igor J. Puzanov, Michael Bennett, and Vinay Kumar

PRESIDENTIAL ADDRESS

4287  The Regulation of the Development of CD8 Effector T Cells
Richard W. Dutton

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

4293  TCR Gene Recombination and αβ-γδ Lineage Divergence: Productive TCR-β
Rearrangement Is Neither Exclusive Nor Preclusive of γδ Cell Development
Douglas B. Burtrum, Sylvia Kim, Erastus C. Dudley, Adrian C. Hayday,
and Howard T. Petrie

4297  Impaired Signaling in Alloantigen-Specific CD8+ T Cells Tolerized In Vivo:
Employing a Model of Ld-Specific TCR Transgenic Mice Transplanted with
Allogenic Hearts Under the Cover of a Short-Term Rapamycin Treatment
Huifang Chen, Hongyu Luo, Dasheng Xu, Dennis Y. Loh, Pierre M. Daloze,
André Veillette, Shijie Qi, and Jiangping Wu

4309  Human T Cells Require IL-2 but Not G1/S Transition to Acquire
Susceptibility to Fas-Mediated Apoptosis
Sylvie Fournel, Laurent Genestier, Eric Robinet, Monique Flacher,
and Jean-Pierre Revillard
Lack of IL-12 Signaling in Human Allergen-Specific Th2 Cells
Catharien M. U. Hilkm, Gerald Messer, Kiki Tesselaar, Anna G. I. van Rietschoten, Martien L. Kapsenberg, and Eddy A. Wierenga

Tyrosine Phosphorylation and Recruitment of ZAP-70 to the CD3-TCR Complex Are Defective After CD2 Stimulation
Pascale Hubert, Valérie Lang, Patrice Debré, and Georges Bismuth

Brain-Derived Gangliosides Regulate the Cytokine Production and Proliferation of Activated T Cells
David N. Irani, Kuo-I Lin, and Diane E. Griffin

Deletion in HCDR3 Rescues T15 Antibody Mutants from a Secretion Defect Caused by Mutations in HCDR2
Tammy M. Martin, Christine Kowalczyk, Susan Stevens, Gregory D. Wiens, Mary P. Stenzel-Poore, and Marvin B. Rittenberg

CD80 (B7.1) and CD54 (Intracellular Adhesion Molecule-1) Induce Target Cell Susceptibility to Promiscuous Cytotoxic T Cell Lysis

Selective Induction of CD73 Expression in Human Lymphocytes by CD38 Ligation: A Novel Pathway Linking Signal Transducers with Ecto-Enzyme Activities
Silvia Peola, Paolo Borrione, Lina Matera, Fabio Malavasi, Alessandro Pileri, and Massimo Massai

Functional CD40 Ligand Expressed by Human Blood Dendritic Cells Is Up-Regulated by CD40 Ligation
Lesya M. Pinchuk, Stephen J. Klaus, Dario M. Magaletti, George V. Pinchuk, Jason P. Norsen, and Edward A. Clark

CD19 Regulates B Lymphocyte Signaling Thresholds Critical for the Development of B-1 Lineage Cells and Autoimmunity
Shinichi Sato, Nobutaka Ono, Douglas A. Steeber, David S. Pisetsky, and Thomas F. Tedder

Capsaicin (8-Methyl-N-Vanillyl-6-Nonenamide) Is a Potent Inhibitor of Nuclear Transcription Factor-κB Activation by Diverse Agents
Sanjaya Singh, K. Natarajan, and Bharat B. Aggarwal
Early Production of IL-4 and Induction of Th2 Responses in the Lymph Node Originate from an MHC Class I-Independent CD4+NK1.1− T Cell Population
Thierry von der Weid, Amy M. Beebe, Derry C. Roopenian, and Robert L. Coffman

IL-5 Receptor Expression and Ig Secretion from Murine B Lymphocytes Requires Coordinated Signaling by Membrane Ig, IL-4, and IL-5
Jason D. Weber, Peter C. Isakson, and Jeffrey M. Purkerson

**Molecular and Structural Immunology**

Alleles of Highly Homologous Rat T Cell Receptor β-Chain Variable Segments 8.2 and 8.4: Strain-Specific Expression, Reactivity to Superantigens, and Binding of the mAb R78
Anne Asmus, Kathrin Hofmann, Tim Hochgrebe, Gerhard Giegerich, Thomas Hüning, and Thomas Herrmann

Identification of a Promoter Element That Regulates Tissue-Specific Expression of the Human CD80 (B7.1) Gene
Timothy C. Fong, Yunqi Wu, and Thomas J. Kipps

Interdependence of N Nucleotide Addition and Recombination Site Choice in V(D)J Rearrangement
Thomas B. Kepler, Michelle Borrero, Beth Rugerio, Suzanne K. McCray, and Stephen H. Clarke

Somatic Hypermutation of a λ2 Transgene Under the Control of the λ Enhancer or the Heavy Chain Intron Enhancer
Emily L. Klotz and Ursula Storb

Alloreactive CD8+ T Cells Can Recognize Unusual, Rare, and Unique Processed Peptide-MHC Complexes
Subramaniam Malarkannan, Federico Gonzalez, Vu Nguyen, Gerald Adair, and Nilabh Shastri

Characterization of a Light Chain Product of the Human JCA7 Gene Complex
Theodoor A. Niewold, Charles L. Murphy, Deborah T. Weiss, and Alan Solomon

A Residue in the Center of Peptide QL9 Affects Binding to Both Ia and the T Cell Receptor
Carol J. Schlueter, Thomas C. Manning, Beth A. Schodin, and David M. Kranz

Mutational Analysis of the Ligand-Binding Domain of M-T2 Protein, the Tumor Necrosis Factor Receptor Homologue of Myxoma Virus
Martha Schreiber and Grant McFadden

An Endogenous Sialoprotein and a Bacterial B Cell Superantigen Compete in Their VH Family-Specific Binding Interactions with Human Igs
Gregg J. Silverman, René Pirès, and Jean-Pierre Bouvet

Invariant Chain Association with MHC Class I: Preference for HLA Class I/β2-Microglobulin Heterodimers, Specificity, and Influence of the MHC Peptide-Binding Groove
Janet L. Vigna, Kelly D. Smith, and Charles T. Lutz
Genes for Chemokines MuMig and Crg-2 Are Induced in Protozoan and Viral Infections in Response to IFN-γ with Patterns of Tissue Expression That Suggest Nonredundant Roles In Vivo
Doron Amichay, Ricardo T. Gazzinelli, Gunasegaran Karupiah, Thomas R. Moench, Alan Sher, and Joshua M. Farber

IFN-γ-Independent Production of IL-12 During Murine Endotoxemia
Frederick P. Heinzel, Ronald M. Rerko, Farah Ahmed, and Andrea M. Hujer

Afferent Phase Production of TNF-α Is Required for the Development of Protective T Cell Immunity to Cryptococcus neoformans
Gary B. Hufnagle, Galen B. Toews, Marie D. Burdick, Michael B. Boyd, Kevin S. McAllister, Roderick A. McDonald, Steven L. Kunkel, and Robert M. Strieter

The Outcome of the Parasitic Process Initiated by Leishmania infantum in Laboratory Mice: A Tissue-Dependent Pattern Controlled by the Lsh and MHC Loci
Véronique Leclercq, Maë Lebastard, Yasmine Belkaid, Jacques Louis, and Geneviève Milon

The Granulomatous Response in Murine Schistosomiasis mansoni Does Not Switch to Th1 in IL-4-Deficient C57BL/6 Mice
Ahmed Metwali, David Elliott, Arthur M. Blum, Jie Li, Matyas Sandor, Richard Lynch, Nancy Noben-Trauth, and Joel V. Weinstock

Chlamydia trachomatis Major Outer Membrane Protein (MOMP) Epitopes That Activate HLA Class II-Restricted T Cells from Infected Humans
Linette Ortix, Karen P. Demick, Jean W. Petersen, Michael Polka, Richard A. Rudersdorf, Barbara Van der Pol, Robert Jones, Mark Angevine, and Robert DeMars

Differences in Mannose Receptor-Mediated Uptake of Lipoarabinomannan from Virulent and Attenuated Strains of Mycobacterium tuberculosis by Human Macrophages
Larry S. Schlesinger, Thomas M. Kaufman, Shankar Iyer, Steven R. Hull, and Laura K. Marchiando

Intracellular Murine IFN-γ Mediates Virus Resistance, Expression of Oligoadenylate Synthetase, and Activation of STAT Transcription Factors
Antje Will, Ulrike Hemmann, Friedemann Horn, Martin Röllinghoff, and André Gessner

Borrelia burgdorferi Outer Membrane Protein A Induces Nuclear Translocation of Nuclear Factor-κB and Inflammatory Activation in Human Endothelial Cells
R. Mark Wooten, Vijayanand R. Modur, Thomas M. McIntyre, and Janis J. Weis

Antisense Homology Boxes in C5a Receptor and C5a Anaphylatoxin: A New Method for Identification of Potentially Active Peptides
Lajos Baranyi, William Campbell, and Hidechika Okada
Role of Monocyte Chemoattractant Protein-1 (MCP-1) in Th1 (Mycobacterial) and Th2 (Schistosomal) Antigen-Induced Granuloma Formation: Relationship to Local Inflammation, Th Cell Expression, and IL-12 Production
Stephen W. Chensue, Kelly S. Warmington, Jeffrey H. Ruth, Pramod S. Sanghi, Pamela Lincoln, and Steven L. Kunkel

The Role of P-Selectin and ICAM-1 in Acute Lung Injury as Determined Using Blocking Antibodies and Mutant Mice
Claire M. Doerschuk, William M. Quinlan, Nicholas A. Doyle, Daniel C. Bullard, Dietmar Vestweber, Michael L. Jones, Fumio Takei, Peter A. Ward, and Arthur L. Beaudet

Mechanisms of Stimulation of the Respiratory Burst by TNF in Nonadherent Neutrophils: Its Independence of Lipidic Transmembrane Signaling and Dependence on Protein Tyrosine Phosphorylation and Cytoskeleton
Stefano Dusi, Vittorina Della Bianca, Marta Donini, Katysuscia A. Nadalini, and Filippo Rossi

Mechanisms of Smokeless Tobacco-Induced Oral Mucosa Inflammation: Role of Bradykinin
Xiao-pei Gao, Jamboor K. Vishwanatha, J. Michael Conlon, Christopher O. Olopade, and Israel Rubinstein

Adenosine Receptor Agonists Differentially Regulate IL-10, TNF-α, and Nitric Oxide Production in RAW 264.7 Macrophages and in Endotoxemic Mice
György Haskó, Csaba Szabó, Zoltán H. Németh, Vladimir Kvetan, Stephen McCarthy Pastores, and E. Sylvester Vizi

Identification and Regulation of Protein Kinase C-8 in Human Neutrophils
Jonathan D. Kent, Susan Sergeant, David J. Burns, and Linda C. McPhail

Effects of Site-Directed Mutagenesis of Basic Residues (Arg 94, Lys 95, Lys 99) of Lipopolysaccharide (LPS)-Binding Protein on Binding and Transfer of LPS and Subsequent Immune Cell Activation
Norbert Lamping, Adolf Hoess, Bo Yu, Thomas C. Park, Carsten-J. Kirschning, Dagmar Pfeil, Dirk Reuter, Samuel D. Wright, Friedhelm Herrmann, and Ralf R. Schumann

CD44 Is a Cytotoxic Triggering Molecule on Human Polymorphonuclear Cells
Federica Pericle, Giuseppe Sconocchia, Julie A. Titus, and David M. Segal

Stimulating Properties of 5-Oxo-Eicosanoids for Human Monocytes: Synergism with Monocyte Chemotactic Protein-1 and -3
Silvano Sozzani, Dan Zhou, Massimo Locati, Sergio Bernasconi, Walter Luini, Alberto Mantovani, and Joseph T. O'Flaherty

E-Selectin Preferentially Supports Neutrophil but Not Eosinophil Rolling Under Conditions of Flow In Vitro and In Vivo
Pragada Sriramaraao, Christine R. Norton, Per Borgstrom, Richard G. DiScipio, Barry A. Wolitzky, and David H. Broide

Modulation of Human Platelet-Activating Factor Receptor Gene Expression by Protein Kinase C Activation
Maryse Thivierge, Jean-Luc Parent, Jana Stankova, and Marek Rola-Pleszczyński
Increased IL-4 Production in New Onset Type I Insulin-Dependent Diabetes Mellitus
Monique A. Berman, Christy I. Sandborg, Zengshun Wang, Karen L. Imfeld, Frank Zaldivar, Jr., Violeta Dadufalxa, and Bruce A. Buckingham

Selection of T Cells Reactive Against Autologous B Lymphoblastoid Cells During Chronic Rheumatoid Arthritis
Jacques David-Ameline, Annick Lim, François Davodeau, Marie Alix Peyrat, Jean Marie Berthelot, Gilbert Semana, Christophe Pannetier, Joelle Gaschet, Henri Vie, Jos Even, and Marc Bonneville

Defective FcγRII Gene Expression in Macrophages of NOD Mice: Genetic Linkage with Up-Regulation of IgG1 and IgG2b in Serum
Jian Jian Luan, Renato C. Monteiro, Catherine Sautès, Guy Fluteau, Laure Eloy, Wolf Herman Fridman, Jean-François Bach, Henri-Jean Garchon

Regional Immunosuppression in Esophageal Squamous Cancer: Evidence from Functional Studies with Matched Lymph Nodes
Gerald C. O’Sullivan, Anne R. Corbett, Fergus Shanahan, and J. Kevin Collins

Prevention of Autoimmune Diabetes by Linomide in Nonobese Diabetic (NOD) Mice Is Associated with Up-Regulation of the TCR-Mediated Activation of p21ras
Micha J. Rapoport, Lola Weiss, Anat Mor, Tzvy Bistritzer, Yoram Ramot, and Shimon Slavin

Acceleration of Spontaneous Diabetes in TCR-β-Transgenic Nonobese Diabetic Mice by β-Cell Cytotoxic CD8+ T Cells Expressing Identical Endogenous TCR-α Chains
Joan Verdaguer, Ji-Won Yoon, Brad Anderson, Nuzhat Averill, Toshihiro Utsugi, Byang-Ju Park, and Pere Santamaria

Author Index