159 (6)

J Immunol 1997; 159:2549-3080; 
http://www.jimmunol.org/content/159/6.citation

This information is current as of August 19, 2021.

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

VOLUME 159 / NO 6 / SEPTEMBER 15, 1997

TABLE OF CONTENTS

CUTTING EDGE

2549 CD44 Activation and Associated Primary Adhesion Is Inducible via T Cell Receptor Stimulation
Heather C. DeGrendele, Maria Kosfiszer, Pita Estess, and Mark H. Siegelman

2554 Isolation and Characterization of Exodus-2, a Novel C-C Chemokine with a Unique 37-Amino Acid Carboxyl-Terminal Extension
Robert Hromas, Chang H. Kim, Michael Klemsz, Mitchell Krathwohl, Kenneth Fife, Scott Cooper, Carol Schnizlein-Bick, and Hal E. Brummeier

2559 Regulation of Ku Expression in Normal Murine B Cells by Stimuli That Promote Switch Recombination
Piotr Zelaowski, Edward E. Max, Marilyn R. Kehry, and Clifford M. Snapper

2563 HEL-Flu: An Influenza Virus Containing the Hen Egg Lysozyme Epitope Recognized by CD4+ T Cells from Mice Transgenic for an αβ TCR
William S. Walker, Maria R. Castrucci, Mark Y. Sangster, Richard T. Carson, and Yoshihiro Kawaoka

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

2567 Regulation of Memory CD4 T Cell Adhesion by CD4-MHC Class II Interaction
Daniel P. Metz, Donna L. Farber, Rolf König, and Kim Bottomly

2574 Immunodominance Is Independent of Structural Constraints: Each Region WithinHen Eggwhite Lysozyme Is Potentially Available Upon Processing of Native Antigen
Kamal J. Moudgil, Debora Sekiguchi, Sue Y. Kim, and Eli E. Sercarz

On the cover: Gaphical representations of MHC class I molecules H-2D^B and HLA-A2.1. Identical residues are shown in green. A murine CTL clone (AHIII12.2) displays peptide-specific recognition of both of these molecules, and lytolytic assays suggest that these are functionally equivalent epitopes. This TCR appears to make a different, but overlapping, set of contacts with each class I/peptide complex. In this instance, cross-recognition appears to be the result of both shared and complex-specific contacts. (Figure 8 from Loftus, D. J., Y. then, D. G. Covell, V. H. Engelhard, and E. Appella. 1997. Differential contact of disparate class I/peptide complexes as the basis for epitope cross-recognition by a single T cell receptor. J. Immunol. 158:3651.)
Immunocompromised Tumor-Bearing Mice Show a Selective Loss of STAT5a/b Expression in T and B Lymphocytes
Federica Pericle, Robert A. Kirken, Vincenzo Bronte, Giuseppe Sconocchia, Luis DaSilva, and David M. Segal

Abnormal Regulation of Retinoic Acid Receptor β2 Expression and Compromised Allograft Rejection in Transgenic Mice Expressing Antisense Sequences to Retinoid Acid Receptor β1 and β3
Jacques Bérard, Hongyu Luo, Huifang Chen, Myhala Mukuna, W. Edward C. Bradley, and Jiangping Wu

Administration of IL-12 Induces a CD3+CD4−CD8−B220+ Lymphoid Population Capable of Eliciting Cytolysis Against Fas-Positive Tumor Cells
Tateki Tsutsui, Jie Mu, Makoto Ogawa, Wen-Gong Yu, Takashi Suda, Shigekazu Nagaya, Fumitaka Saji, Yuji Murata, Hiromi Fujiwara, and Toshiyuki Hamaoka

T Cell Receptor Diversity in CTLs Specific for the CTT-1 and CTT-2 Minor Histocompatibility Antigens
Sean L. Johnston and Peter J. Wettstein

IL-4-Independent Regulation of In Vivo IL-9 Expression
Philippe Monteyne, Jean-Christophe Renaud, Johan Van Broeck, David W. Dunne, Frank Brombacher, and Jean-Paul Coutelier

Functional Effects of Overexpression of Protein Kinase C-α, -β, -δ, -ε, and -γ in the Mast Cell Line RBL-2H3
En-Yuh Chang, Zoltan Szallasi, Peter Ács, Vivek Raizada, Patricia C. Wolfe, Clare Fewtrell, Peter M. Blumberg, and Juan Rivera

Characterization of Anti-Single-Stranded DNA B Cells in a Non-Autoimmune Background
Kim-Anh T. Nguyen, Laura Mandik, Anh Bui, Joshua Kavalier, Amanda Norvell, John G. Monroe, Jessica H. Roark, and Jan Erikson

Increased Sensitivity of Gastric Cancer Cells to Natural Killer and Lymphokine-Activated Killer Cells by Antisense Suppression of N-Acetylgalactosaminyltransferase
Takeya Adachi, Yuji Hinoda, Isao Nishimori, Masaaki Adachi, and Kohzoh Imai

CD154/CD40 and CD70/CD27 Interactions Have Different and Sequential Functions in T Cell-Dependent B Cell Responses: Enhancement of Plasma Cell Differentiation by CD27 Signaling
Serge Jacquot, Tetsuji Kobata, Satoshi Iwata, Chikao Morimoto, and Stuart F. Schlossman

Delay in the Onset of Systemic Lupus Erythematosus Following Treatment With the Immunomodulator AS101: Association With IL-10 Inhibition and Increase in TNF-α Levels
Yona Kalechman, Uzi Gafter, Ji Ping Da, Michael Albeck, Donato Alarcon-Segovia, and Benjamin Sredni

Relationship Between Proliferation and Susceptibility to CD95- and CD2-Mediated Apoptosis in Stimulated Primary T Lymphocytes: T Cells Manifesting Proliferative Unresponsiveness Are Preferentially Susceptible to CD95-Mediated Apoptosis
Bertrand Mollereau, Dominique Blanchard, Olivier Dèas, Céline Dumont, Didier Métivier, Alain Bernard, Jeffrey T. McGrew, Bernard Charpentier, Aimé Vazquez, and Anna Senik
Transcription Factor Egr-1 Activity Down-Regulates Fas and CD23 Expression in B Cells

Low Affinity of Cell Surface Lymphocyte Function-Associated Antigen-1 (LFA-1) Generates Selectivity for Cell-Cell Interactions
Gauri Ganpule, Ruth Knorr, James M. Miller, Christopher P. Carron, and Michael L. Dustin

E-Cadherin-Mediated Adhesion Involving Langerhans Cell-Like Dendritic Cells Expanded from Murine Fetal Skin
Thilo Jakob, Atsushi Saitoh, and Mark C. Udey

Phorbol Myristate Acetate Stimulates the Dimerization of CD44 Involving a Cysteine in the Transmembrane Domain
Dacai Liu and Man-Sun Sy

Primary B Cell Development Is Impaired in Mice with Defects of the Pituitary/Thyroid Axis
Encarnacion Montecino-Rodriguez, Ross G. Clark, Lyn Powell-Braxton, and Kenneth Dorshkind

Introduction of Exogenous Class II Trans-Activator in MHC Class II-Deficient ABI Fibroblasts Results in Incomplete Rescue of MHC Class II Antigen Expression
Ad Peijnenburg, Sam J. P. Gobin, Marja C. J. A. van Eggermond, Barbara C. Godthelp, Niels van Graafeiland, and Peter J. van den Elsen

Leukocyte Function-Associated Antigen-1-Dependent Lysis of Fas+ (CD95+/Apo-1+) Innocent Bystanders by Antigen-Specific CD8+ CTL
Hidefumi Kojima, Koji Eshima, Hajime Takayama, and Michail V. Sitkovsky

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Redundant Expression but Selective Utilization of Nuclear Factor of Activated T Cells Family Members
Luika A. Timmerman, James I. Healy, Steffan N. Ho, Lei Chen, Christopher C. Goodnow, and Gerald R. Crabtree

Expression in BALB/c and C57BL/6 Mice of Rt6-1 and Rt6-2 ADP-Ribosyltransferases That Differ in Enzymatic Activity: C57BL/6 Rt6-1 is a Natural Transferase Knockout
Toshihiro Kanaitsuka, Rita Bortell, Linda A. Stevens, Joel Moss, Deborah Sardinia, T. V. Rajan, Danny Zipris, John P. Mordes, Dale L. Greiner, and Aldo A. Rossini

Novel HY Peptide Antigens Presented by HLA-B27

The Mouse Genes Encoding the Third Pair of β-Type Proteasome Subunits Regulated Reciprocally by IFN-γ: Structural Comparison, Chromosomal Localization, and Analysis of the Promoter
Masaru Hayashi, Teruo Ishibashi, Keiji Tanaka, and Masanori Kasahara
Alternative Peptide Binding Motifs of Qa-2 Class Ib Molecules Define Rules for Binding of Self and Nonself Peptides

Piotr Tabaczyewski, Eugene Chiang, Maile Henson, and Iwona Stroynowski

Identification of Residues in the Class II-Associated Ii Peptide (CLIP) Region of Invariant Chain That Affect Efficiency of MHC Class II-Mediated Antigen Presentation in an Allele-Dependent Manner

Anand M. Gautam, Maria Yang, Peter J. Milburn, Rohan Baker, Aparna Bhatnagar, James McCluskey, and Tanya Boston

Activation and Transdominant Suppression of MHC Class II and HLA-DMB Promoters by a Series of C-Terminal Class II Transactivator Deletion Mutants

Keh-Chuang Chin, Guoxuan Li, and Jenny P.-Y. Ting

HOST DEFENSE

MHC Class Ib-Restricted Cells Contribute to Antilisterial Immunity: Evidence for Qa-1b as a Key Restricting Element for Listeria-Specific CTLs

H. G. Archie Bouwer, Michael S. Seaman, James Forman, and David J. Hinrichs

Recognition of the Latency-Associated Immediate Early Protein IE63 of Varicella-Zoster Virus by Human Memory T Lymphocytes

Catherine Sadzot-Delvaux, Paul R. Kinchington, Serge Debrus, Bernard Rentier, and Ann M. Arvin

Early Neutralizing Antibody Response Against Mouse Mammary Tumor Virus: Critical Role of Viral Infection and Superantigen-Reactive T Cells

Sanjiv A. Luther, Ivan Maillard, Frédéric Luthi, Leonardo Scarpellino, Heidi Diggelmann, and Hans M. Arvin

Involvement of the ras-Like GTPase rab3d in RBL-2H3 Mast Cell Exocytosis Following Stimulation via High Affinity IgE Receptors (FceRI)

Michèle Roa, Fabienne Paumet, Joëlle Le Mao, Bernard David, and Ulrich Blank

Tuberculosis Generates a Microenvironment Enhancing the Productive Infection of Local Lymphocytes by HIV

Valérie Garrait, Jacques Cadranet, Hélène Esvant, Isabelle Berry, Pierre Morinet, Charles Mayaud, and Dominique Israël-Biet

Heterogeneity of Biologic Responses of Melanoma-Specific CTL

Jean-François Fonteneau, Eric Le Dréan, Soizic Le Guiner, Nadine Gervois, Elisabeth Diez, and Francine Jotereau

CD28 Expression by Mouse Mast Cells Is Modulated by Lipopolysaccharide and Outer Surface Protein A Lipoprotein from Borrelia burgdorferi

Eric V. Marietta, Janis J. Weis, and John H. Weis

Metacyclogenesis Modulates the Ability of Leishmania Promastigotes to Induce IL-12 Production in Human Mononuclear Cells

Alexandrina Sartori, Milton A. P. Oliveira, Phillip Scott, and Giorgio Trinchieri

IL-10 Improves Lung Injury and Survival in Pseudomonas aeruginosa Pneumonia

Teiji Sawa, David B. Corry, Michael A. Gropper, Maria Ohara, Kiyoyasu Kurahashi, and Jeanine P. Wiener-Kronish
DBA/1 Mice Expressing the Human TNF-α Transgene Develop a Severe, Erosive Arthritis: Characterization of the Cytokine Cascade and Cellular Composition
Debra M. Butler, Anne-Marie Malfait, Lesley J. Mason, Paul J. Warden, George Kollias, Ravinder N. Maini, Marc Feldmann, and Fionula M. Brennan

Opsonized Zymosan Stimulates the Redistribution of Protein Kinase C Isoforms in Human Neutrophils
Susan Sergeant and Linda C. McPhail

IL-1β Depresses Expression of the 70-Kilodalton Heat Shock Protein and Sensitizes Glomerular Cells to Oxidant-Initiated Apoptosis
Takashi Yokoo and Masanori Kitamura

Neutrophil Transendothelial Migration Is Independent of Tight Junctions and Occurs Preferentially at Tricellular Corners
Alan R. Burns, David C. Walker, Evelyn S. Brown, Lisa T. Thurmon, Robert A. Bowden, Charles R. Keese, Scott I. Simon, Mark L. Entman, and C. Wayne Smith

Human Mast Cells Produce the CD4+ T Lymphocyte Chemoattractant Factor, IL-16
Vanitcha Rumsaeng, William W. Cruikshank, Barbara Foster, Colman Prussin, Arnold S. Kirshenbaum, Thomas A. Davis, Hardy Kornfeld, David M. Center, and Dean D. Metcalfe

Effect of Recombinant Human IL-4 on Tryptase, Chymase, and Fce Receptor Type I Expression in Recombinant Human Stem Cell Factor-Dependent Fetal Liver-Derived Human Mast Cells
Han-Zhang Xia, Zhongmin Du, Shirley Craig, Gregory Klisch, Nancy Noben-Trauth, Jarema P. Kochan, Thomas H. Huff, Anne-Marie A. Irani, and Lawrence B. Schwartz

Functional Role for the Myeloid Differentiation Antigen CD14 in the Activation of Human Monocytes by IL-2
Maria Carla Bosco, Igor Espinoza-Delgado, Tammy K. Rowe, Maria Grazia Malabarba, Dan L. Longo, and Luigi Varesio

Suppression of TNF-α Secretion by Azelastine in a Rat Mast (RBL-2H3) Cell Line: Evidence for Differential Regulation of TNF-α Release, Transcription, and Degranulation
Izumi Hide, Nobuko Toriu, Tomomi Nuibe, Atsuko Inoue, Michihiro Hide, Shoso Yamamoto, and Yoshihiro Nakata

IL-15 Functions as a Potent Autocrine Regulator of Macrophage Proinflammatory Cytokine Production: Evidence for Differential Receptor Subunit Utilization Associated with Stimulation or Inhibition
David G. Alleva, Steven B. Kaser, M. Alexandra Monroy, Matthew J. Fenton, and David I. Beller

Effects of 5-Oxo-6,8,11,14-Eicosatetraenoic Acid on Expression of CD11b, Actin Polymerization, and Adherence in Human Neutrophils
William S. Powell, Sylvie Gravel, Fawaz Halwani, Charles S. Hii, Zhi Hua Huang, Anne-Marie Tan, and Antonio Ferrante
Cutaneous Injection of RANTES Causes Eosinophil Recruitment: Comparison of Nonallergic and Allergic Human Subjects
Lisa A. Beck, Scott Dalke, Kristin M. Leiferman, Carol A. Bickel, Robert Hamilton, Hugh Rosen, Bruce S. Bochner, and Robert P. Schleimer

Defective TCR-Mediated Signaling in Synovial T Cells in Rheumatoid Arthritis
Madelon M. Maurice, Arjan C. Lankester, Anja C. Bezemer, Minke F. Geertsa, Paul-Peter Tak, Ferdinand C. Breedveld, René A. W. van Lier, and Cornelis L. Verweij

Induction of TNF-α in Human Peripheral Blood Mononuclear Cells by the Mannoprotein of Cryptococcus neoformans Involves Human Mannose Binding Protein
Wendy Chaka, André F. M. Verheul, Varsha V. Vaishnav, Robert Cherniak, Jelle Scharringa, Jan Verhoef, Harm Snippe, and Andy I. M. Hoepelman

Increased Expression of Signaling Lymphocytic Activation Molecule in Patients with Rheumatoid Arthritis and Its Role in the Regulation of Cytokine Production in Rheumatoid Synovium
Pia Isomäki, Gregorio Aversa, Benjamin G. Cocks, Reijo Luukkainen, Riitta Saario, Paavo Toivanen, Jan E. de Vries, and Juha Punnonen

Cerebrospinal Fluid Cytokines in Pediatric Neuropsychiatric Disease
Barbara B. Mittleman, F. Xavier Castellanos, Leslie K. Jacobsen, Judith L. Rapoport, Susan E. Swedo, and Gene M. Shearer

HIV-1 gp120 Induces an Association Between CD4 and the Chemokine Receptor CXCR4
Sophie Ugolini, Maxime Moulard, Isabelle Mondor, Nicolas Barois, Denis Demandoux, James Hoxie, Anne Brelot, Marc Alizon, Jean Davoust, and Quentin J. Sattentau

Regulation of Antigen-Specific IgE, IgG1, and Mast Cell Responses to Ingested Allergen by Mucosal Tolerance Induction
Astrid G. van Halleren, Maarten J. van der Cammen, Deborah Cooper, Huub F. Savelkoul, Georg Kraal, and Patrick G. Holt

Tolerance to a Dominant T Cell Epitope in the Acetylcholine Receptor Molecule Induces Epitope Spread and Suppresses Murine Myasthenia Gravis
Bo Wu, Caishu Deng, Elzbieta Goluszko, and Premkumar Christadoss

DNA-Binding Antibodies from Viable Motheaten Mutant Mice: Implications for B Cell Tolerance
Connie M. Westhoff, Amy Whittier, Shannon Kathol, Jackie McHugh, Carlye Zajicek, Leonard D. Shultz, and Dwane E. Wylie

Cytokine Patterns in Tuberculous and Sarcoid Granulomas: Correlations with Histopathologic Features of the Granulomatous Response
Anne Bergeron, Marcel Bonay, Marianne Kambouchner, Denise Lecossier, Marc Riquet, Paul Soler, Allan Hance, and Abdellatif Tazi

IL-7 Overexpression in Transgenic Mouse Keratinocytes Causes a Lymphoproliferative Skin Disease Dominated by Intermediate TCR Cells: Evidence for a Hierarchy in IL-7 Responsiveness Among Cutaneous T Cells
Ifor R. Williams, Elizabeth A. Rawson, Lisa Manning, Themis Karvoli, Benjamin E. Rich, and Thomas S. Kupper
Tumor-Induced Suppression of T Lymphocyte Proliferation Coincides with Inhibition of Jak3 Expression and IL-2 Receptor Signaling: Role of Soluble Products from Human Renal Cell Carcinomas

Vladimir Kolenko, Qiu Wang, M. C. Riedy, John O'Shea, Jerome Ritz, Martha K. Cathcart, Patricia Rayman, Raymond Tubbs, Mark Edinger, Andrew Novick, Ronald Bukowski, and James Finke

Reduced Expression of Tap1 and Lmp2 Antigen-Processing Genes in the Nonobese Diabetic (NOD) Mouse Due to a Mutation in Their Shared Bidirectional Promoter

Gang Yan, Yineng Fu, and Denise L. Faustman

Author Index