156 (10)

J Immunol 1996; 156:3579-4066; ;
http://www.jimmunol.org/content/156/10.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**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3579</td>
<td>Commentary: Novel Vaccine Approaches</td>
<td>Hildegund C. J. Ertl and Zhiquan Xiang</td>
</tr>
<tr>
<td>3583</td>
<td>Commentary: “The Good, the Bad, and the Ugly”: The Role of Chemokines in Models of Human Disease</td>
<td>Robert M. Strieter, Theodore J. Standiford, Gary B. Huffnagle, Lisa M. Colletti, Nicholas W. Lukacs, and Steven L. Kunkel</td>
</tr>
<tr>
<td>3587</td>
<td>Shortened Telomeres in Clonally Expanded CD28^-CD8^+ T Cells Imply a Replicative History That Is Distinct from Their CD28^+CD8^- Counterparts</td>
<td>Joanita Monteiro, Franak Batliwalla, Harry Ostrer, and Peter K. Gregersen</td>
</tr>
</tbody>
</table>

**Cellular Immunology and Immune Regulation**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3591</td>
<td>Different Patterns of TCR Transgene Expression in Single-Positive and Double-Negative T Cells: Evidence for Separate Pathways of T Cell Maturation</td>
<td>Lirong Cheng, Sussan Dejbakhsh-Jones, Roland Liblau, De Fu Zeng, and Samuel Strober</td>
</tr>
<tr>
<td>3602</td>
<td>T Cell Suppression in Transplantation Tolerance Through Linked Recognition</td>
<td>Joanna D. Davies, Louise Y. W. Leong, Andrew Mellor, Stephen P. Cobbold, and Herman Waldmann</td>
</tr>
<tr>
<td>3608</td>
<td>Staphylococcal Enterotoxin D Functions as a Human B Cell Superantigen by Rescuing V_{H4}-Expressing B Cells from Apoptosis</td>
<td>Rana Domiati-Saad, Jeanne F. Attrep, Hans-Peter Brezinschek, Anne H. Cherrie, David R. Karp, and Peter E. Lipsky</td>
</tr>
<tr>
<td>3621</td>
<td>Cytokine Production by T Lymphocytes from Young and Aged Mice</td>
<td>Christian R. Engwerda, Barbara S. Fox, and Barry S. Handwerger</td>
</tr>
<tr>
<td>3631</td>
<td>Aberrant Regulation of Cytokines in HIV-1 TAT_{72}^-Transgenic Mice</td>
<td>Hildegardo H. Garza, Jr., Om Prakash, and Daniel J. J. Carr</td>
</tr>
</tbody>
</table>
Regulation of the Fas Lytic Pathway in Cloned CTL
Alison Glass, Craig M. Walsh, David H. Lynch, and William R. Clark

Specificity and Degeneracy of Minor Histocompatibility Antigen-Specific MHC-Restricted CTL
Björn R. Gundlach, Karl-Heinz Wiesmüller, Tobias Junct, Stefan Kienle, Günther Jung, and Peter Walden

Intercellular Adhesion Molecule-1 Is Necessary but Not Sufficient to Activate CD4⁺ T Cells: Discovery of a Novel Costimulator on Kidney Tubule Cells
David T. Hagerty

Sustained T Cell Receptor-Mediated Ca²⁺ Responses Rely on Dynamic Engagement of Receptors
Brian Behnam Hashemi, James P. Slattery, David Holowka, and Barbara Baird

Specific Regulation of VLA-4 and α₄β₇ Integrin Expression on Human Activated T Lymphocytes
Trinidad Hernández-Caselles, María Martínez-Esparza, Andrew I. Lazarovits, and Pedro Aparicio

Concanamycin A, a Powerful Tool for Characterization and Estimation of Contribution of Perforin- and Fas-Based Lytic Pathways in Cell-Mediated Cytotoxicity
Takao Kataoka, Nobukata Shinohara, Hajime Takayama, Kazuaki Takaku, Shunzo Kondo, Shin Yonehara, and Kazuo Nagai

DNA Immunization Induces Antibody and Cytotoxic T Cell Responses to Hepatitis B Core Antigen in H-2b Mice
Andreas Kuhöber, Hans-Peter Pudollek, Kurt Reifenberg, Francis V. Chisari, Hans-Jürgen Schlicht, Jörg Reimann, and Reinhold Schirmbeck

CD59 and CD48 Expressed by Rat Retinal Pigment Epithelial Cells Are Major Ligands for the CD2-Mediated Alternative Pathway of T Cell Activation
Janet Liversidge, Rosie Dawson, Sharon Hoey, Dorothy McKay, Peter Grabowski, and John V. Forrester

Differential Activity of Dexamethasone on IL2-, IL4-, or IL-9-Induced Proliferation of Murine Factor-Dependent T Cell Lines
Jamila Louahed, Jean-Christophe Renaud, Jean-Baptiste Demoulin, Gail Baughman, Suzanne Bourgeois, Kazuo Sugamura, and Jacques Van Snick

Expression of IFN Regulatory Factor Family Proteins in Lymphocytes: Induction of Stat-1 and IFN Consensus Sequence Binding Protein Expression by T Cell Activation
Nancy Nelson, Yuka Kanno, Chun Hong, Christina Contursi, Tadashi Fujita, B. J. Fowlkes, Errin O’Connell, Jane Hu-Li, William E. Paul, Dragana Jankovic, Alan F. Sher, John E. Coligan, Angela Thornton, Ettore Appella, Yili Yang, and Keiko Ozato

Analysis of the Role of MHC Class II Presentation in the Stimulation of Cytotoxic T Lymphocytes by Antigens Targeted into the Exogenous Antigen-MHC Class I Presentation Pathway
Kenneth L. Rock and Karen Clark
A Fundamental Subdivision of Circulating Lymphocytes Defined by Adhesion to Mucosal Addressin Cell Adhesion Molecule-1: Comparison with Vascular Cell Adhesion Molecule-1 and Correlation with β7 Integrins and Memory Differentiation

Lusijah S. Rott, Michael J. Briskin, David P. Andrew, Ellen L. Berg, and Eugene C. Butcher

CD40 Expressed on Thymic Epithelial Cells Provides Costimulation for Proliferation but Not for Apoptosis of Human Thymocytes


TCR αβ Gene Usage for Myelin Basic Protein Recognition in Healthy Monozygous Twins

Ananth Shanmugam, Christiane Copie-Bergman, Bruno Falissard, Olivier Debrieu, Jean Philippe Jais, Danielle Rebibo, Jean François Bach, and Elisabeth Tournier-Lasserve

Peptide-Dependent Expression of HLA-B7 on Antigen Processing-Deficient T2 Cells

Kelly D. Smith and Charles T. Lutz

T Cell Tolerance Is Influenced by Concomitant T Cell Recognition of Cross-Reactive Self-Peptides

Robert C. Tam, Eugenia V. Fedoseyeva, Marina Moskalenko, Marvin R. Garovoy, and Gilles Benichou

Molecular and Structural Immunology

Generation of a New γδ T Cell-Specific Monoclonal Antibody (GD3.5): Biochemical Comparisons of GD3.5 Antigen with the Previously Described Workshop Cluster 1 (WC1) Family

Ward M. Jones, Bruce Walcheck, and Mark A. Jutila

AP-1 Regulates the Basal and Developmentally Induced Transcription of the CD11c Leukocyte Integrin Gene

Cristina López-Rodríguez, Hanneke C. Kluin-Nelemans, and Angel L. Corbi

Early B Cell Factor Interacts with a Subset of κ Promoters

Mikael Sigvardsson, Peter Åkerblad, and Tomas Leanderson

The Generation of Antibody Diversity in the Turtle

Alexander Turchin and Ellen Hsu

A DNA Binding Protein in Human Thymocytes Recognizes the T Cell Receptor-β-Deleting Element ɪɪɪα

Martie C. M. Verschuren, Cristel J. L. van Bergen, Ellen J. van Gastel-Mol, Ad J. J. C. Bogers, and Jacques J. M. van Dongen

T Cell Recognition of MHC Class II-Associated Peptides Is Independent of Peptide Affinity for MHC and Sodium Dodecyl Sulfate Stability of the Peptide/MHC Complex: Effects of Conservative Amino Acid Substitutions at Anchor Position 1 of Influenza Matrix Protein

Shenhong Wu, Jack Gorski, David D. Eckels, and Debra K. Newton-Nash
3821 Rejection of MHC Class II-Transfected Tumor Cells Requires Induction of Tumor-Encoded B7-1 and/or B7-2 Costimulatory Molecules
Sivasubramanian Baskar, Virginia K. Clements, Laurie H. Glimcher, Nasrin Nabavi, and Suzanne Ostrand-Rosenberg

3828 Chemotactic Activity of Mycobacterial Lipoarabinomannans for Human Blood T Lymphocytes In Vitro

3836 Oxidative Killing of Cryptococcus neoformans by Human Neutrophils: Evidence That Fungal Mannitol Protects by Scavenging Reactive Oxygen Intermediates
Vishnu Chaturvedi, Brian Wong, and Simon L. Newman

3841 Role of Host Antigen Receptor-Bearing and Antigen Receptor-Negative Cells in Immune Response to Rat Adenocarcinoma 13762
Alan B. Frey

3850 Regulation of Lymphocyte Homing into the Brain During Viral Encephalitis at Various Stages of Infection
David N. Irani and Diane E. Griffin

3858 Immunization with Granulocyte-Macrophage Colony-Stimulating Factor-Transduced, but Not B7-1-Transduced, Lymphoma Cells Primes Idiotype-Specific T Cells and Generates Potent Systemic Antitumor Immunity
Hyam I. Levitsky, Jami Montgomery, Mojgan Ahmadzadeh, Kevin Staveley-O'Carroll, Frank Guarnieri, Dan L. Longo, and Larry W. Kwak

3866 Mechanisms of Trypanosoma cruzi-Induced Down-Regulation of Lymphocyte Function: Inhibition of Transcription and Expression of IL-2 Receptor γ (p64IL-2R) and β (p70IL-2R) Chain Molecules in Activated Normal Human Lymphocytes
Sarmila Majumder and Felipe Kierszenbaum

3875 Adoptive Immunotherapy with Tumor-Specific T Lymphocytes Generated from Cytokine Gene-Modified Tumor-Primed Lymph Node Cells
Koichiro Ohno, Hirohisa Yoshizawa, Hiroko Tsukada, Tetsuro Takeda, Yoshifumi Yamaguchi, Kentaro Ichikawa, Yoshi Maruyama, Yoshiyuki Suzuki, Eiichi Suzuki, and Masaaki Arakawa

3882 Binding and Presentation of Peptides Derived from Melanoma Antigens MART-1 and Glycoprotein-100 by HLA-A2 Subtypes: Implications for Peptide-Based Immunotherapy

3892 Acceleration of Influenza Virus Clearance by Th1 Cells in the Nasal Site of Mice Immunized Intranasally with Adjuvant-Combined Recombinant Nucleoprotein
Shin-ichi Tamura, Kenji Miyata, Kazutoshi Matsuo, Hideki Asanuma, Hidehiro Takahashi, Katsuhisa Nakajima, Yujiro Suzuki, Chikara Aizawa, and Takeshi Kurata
Human Herpes Simplex Virus (HSV)-Specific CD8+ CTL Clones Recognize HSV-2-Infected Fibroblasts after Treatment with IFN-γ or When Virion Host Shutoff Functions Are Disabled
Michael A. Tigges, Song Leng, David C. Johnson, and Rae Lyn Burke

Enhanced Tumor Outgrowth after Peptide Vaccination: Functional Deletion of Tumor-Specific CTL Induced by Peptide Vaccination Can Lead to the Inability to Reject Tumors
René E. M. Toes, Ria J. J. Blom, Rienk Offringa, W. Martin Kast, and Cornelis J. M. Melief

Protective Immunity in BALB/c Mice Against the Simian Virus 40-Induced mKSA Tumor Resulting from Injection of Recombinant Large T Antigen: Requirement of CD8+ T Lymphocytes
Jens Zerrahn, Olaf Utermöhlen, Gabriele Warnecke, Wolfgang Deppert, and Fritz Lehmann-Gmbe

INFLAMMATION

Down-Regulation by IL-4 and Up-Regulation by IFN-γ of Mast Cell Induction from Mouse Spleen Cells
Zhi-Qing Hu, Naoko Zenda, and Tadakatsu Shimamura

Induction of IL-12 p40 Messenger RNA Expression and IL-12 Production of Macrophages Via CD40-CD40 Ligand Interaction
Takuma Kato, Rie Hakamada, Hidehiro Yamane, and Hideo Nariuchi

Galectin-3 Promotes Adhesion of Human Neutrophils to Laminin
Ichiro Kuwabara and Fu-Tong Liu

Stem Cell Factor (c-kit Ligand) Influences Eosinophil Recruitment and Histamine Levels in Allergic Airway Inflammation

Activation of Human Monocytes Through CD40 Induces Matrix Metalloproteinases
Najma Malik, Brad W. Greenfield, Alan F. Wahl, and Peter A. Kiener

Salicylates Inhibit IκB-α Phosphorylation, Endothelial-Leukocyte Adhesion Molecule Expression, and Neutrophil Transmigration
Jacqueline W. Pierce, Margaret A. Read, Han Ding, Francis W. Luscinskas, and Tucker Collins

Extracellular ATP Activates Mast Cells Via a Mechanism That Is Different from the Activation Induced by the Cross-Linking of Fc Receptors
Nobuyuki Sudo, Kazuo Tanaka, Yasuhiro Koga, Yuushi Okumura, Chiharu Kubo, and Kikuo Nomoto

Eosinophil Degranulation in the Presence of Bronchial Epithelial Cells: Effect of Cytokines and Role of Adhesion
Shigeru Takafuji, Takayuki Ohtoshi, Hajime Takizawa, Kenji Tadokoro, and Koji Ito
Neutrophils Undergo Apoptosis Following Ingestion of *Escherichia coli*

R. William G. Watson, H. Paul Redmond, Jiang Huai Wang, Claire Condron, and David Bouchier-Hayes

**Clinical Immunology**

Binding of HIV-1 Virions or gp120-Anti-gp120 Immune Complexes to HIV-1-Infected Quiescent Peripheral Blood Mononuclear Cells Reveals Latent Infection

Laurence Briant, Nolwenn Coudronnière, Véronique Robert-Hebmann, Monsef Benkirine, and Christian Desaux

Phage Display Cloning and Characterization of an Immunogenetic Marker (Perinuclear Anti-Neutrophil Cytoplasmic Antibody) in Ulcerative Colitis


Intact Antigen Receptor-Mediated Calcium Signals in Patients with Early Stage HIV-1 Infection

Thomas E. Hickey, Patrick J. Blair, Steve Perfetto, Douglas S. Smoot, Kenneth F. Wagner, Daniel C. St. Louis, Douglas L. Mayers, Jeffrey N. Siegel, and Carl H. June

Human Lupus Anti-Spliceosome A Protein Autoantibodies Bind Contiguous Surface Structures and Segregate into Two Sequential Epitope Binding Patterns

Judith A. James and John B. Harley

Endometrial T, B, and NK Cells in Patients with Recurrent Spontaneous Abortion: Altered Profile and Pregnancy Outcome

Marie-Hélène Lachapelle, Pierre Miron, Robert Hennings, and Denis Claude Roy

Selective Reduction of Va14+ NK T Cells Associated with Disease Development in Autoimmune-Prone Mice

Marco A. Mieza, Toshihiro Itoh, Jun Q. Cui, Yasuhiko Makino, Tetsu Kawano, Kennichi Tsuchida, Takao Koihe, Toshikazu Shirai, Hideo Yagita, Akio Matsuzawa, Haruhiko Koseki, and Masaru Taniguchi

Murine Lupus in the Absence of αβ T Cells

Stanford L. Peng, Michael P. Madaio, Dennis P. M. Hughes, I. Nicholas Crispe, Michael J. Owen, Li Wen, Adrian C. Hayday, and Joe Craft

Flow Cytometric and Functional Analyses of Central Nervous System-Infiltrating Cells in SJL/J Mice with Theiler's Virus-Induced Demyelinating Disease: Evidence for a CD4+ T Cell-Mediated Pathology

Jonathan G. Pope, William J. Karpus, Carol Vanderlugt, and Stephen D. Miller

Immunization with Short Peptides from the Sequence of the Systemic Lupus Erythematosus-Associated 60-kDa Ro Autoantigen Results in Anti-Ro Ribonucleoprotein Autoimmunity

R. Hal Scofield, William E. Henry, Biji T. Kurien, Judith A. James, and John B. Harley

Author Index