Editorial: Manuscript Reviews for *The Journal of Immunology*

**Ig Sy3 DNA-Specific Double Strand Breaks Are Induced in Mitogen-Activated B Cells and Are Implicated in Switch Recombination**
Robert A. Wuerffel, Jian Du, Rebecca J. Thompson, and Amy L. Kenter

The PU.1 Binding Site Is a cis-Element That Regulates Pro-B/Pre-B Specificity of Vκ-Jκ Joining
Reiko Hayashi, Toshitada Takemori, Masami Kodama, Misao Suzuki, Akio Tsuboi, Fumikiyo Nagawa, and Hitoshi Sakano

**Regulation of C-C Chemokine Production by Murine T Cells by CD28/B7 Costimulation**
Kevan C. Herold, Jing Lu, Ingrid Rulifson, Vaiva Vezys, Dennis Taub, Michael J. Grusby, and Jeffrey A. Bluestone

**Cellular Immunology and Immune Regulation**

Effect of TGF-β1 on Cell Cycle Regulatory Proteins in LPS-Stimulated Normal Mouse B Lymphocytes
Caroline Bouchard, Wolf Herman Fridman, and Catherine Sautès

Altered Peptide Ligands Trigger Perforin- Rather than Fas-Dependent Cell Lysis
Martin F. Bachmann, Toshiaki Ohteki, Kim McKall Faienza, Arsen Zakarian, David Kügi, Daniel E. Speiser, and Pamela S. Ohashi

On the cover: Graphical representations of MHC class I molecules H-2D^d 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 cytolytic 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. Chen, 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.)
4171 Stromal Cell Modulation of Negative Regulatory Signals That Influence Apoptosis and Proliferation of B Lineage Lymphocytes
Lisa A. Borghesi, Giennda Smithson, and Paul W. Kincade

4180 CD4+ T Cells from IRF-1-Deficient Mice Exhibit Altered Patterns of Cytokine Expression and Cell Subset Homeostasis
David L. McElligott, Joy A. Phillips, Cathy A. Stillman, Rick J. Koch, Donald E. Mosier, and Monte V. Hobbs

4187 Differential Tyrosine Phosphorylation of Inhibitory Versus Activating Ly-49 Receptor Proteins and Their Recruitment of SHP-1 Phosphatase

4197 Fas-Mediated Liver Damage in MRL Hemopoietic Chimeras Undergoing lpr-Mediated Graft-Versus-Host Disease
Pierre Bobé, Danielle Bonardelle, Michel Reynès, François Godeau, Jérôme Mahiou, Virginie Joulin, and Nicole Kiger

4205 Limits to the Differential Avidity Model of T Cell Selection in the Thymus
Cristina Girao, Qinghui Hu, Jiling Sun, and Philip G. Ashton-Rickardt

4212 Differential Effects of B7-1 Blockade in the Rat Experimental Autoimmune Encephalomyelitis Model
Lorenzo Gallon, Anil Chandraker, Shohreh Issazadeh, Robert Peach, Peter S. Linsley, Laurence A. Turka, Mohamed H. Sayegh, and Samia J. Khoury

4217 Distinct Roles for B7-1 and B7-2 Determinants During Priming of Effector CD8+ Tc1 and Regulatory CD4+ Th2 Cells for Contact Hypersensitivity
Hui Xu, Peter S. Heeger, and Robert L. Fairchild

4227 TCR-β Repertoire Development in the Mouse Embryo
Hideo Ema, Ana Cumano, and Philippe Kourilsky

4233 B Cell Antigen Receptor-Evoked Calcium Influx Is Enhanced in CD22-Deficient B Cell Lines
Monica J. S. Nadler, Paul A. McLean, Benjamin G. Neel, and Henry H. Wortis

4244 CD40-Mediated Signals Inhibit the Binding of TNF Receptor-Associated Factor 2 to the CD40 Cytoplasmic Domain
Amitabha Chaudhuri, Scott Orme, Sheerlee Eilam, and Bobby J. Cherayil

4252 Transgenic Expression of Lymphotoxin Restores Lymph Nodes to Lymphotoxin-α-Deficient Mice
Rosalba Sacca, Shannon Turley, Lynn Soong, Ira Mellman, and Nancy H. Ruddle

4261 Specific Resistance of T Cells to CD95-Induced Apoptosis During S Phase of the Cell Cycle
Tao Dao, James W. Huleatt, Ravi Hingorani, and I. Nicholas Crispe

4268 In Vivo Administration offlt3 Ligand Markedly Stimulates Generation of Dendritic Cell Progenitors from Mouse Liver
Maureen L. Drakes, Lina Lu, Vladimir M. Subbotin, and Angus W. Thomson

4279 Regulation of B Cell Functions by C3a and C3aΔestArg: Suppression of TNF-α, IL-6, and the Polyclonal Immune Response
Wolfgang H. Fischer and Tony E. Hugli
Cellular Requirements for the Activation and Proliferation of Ruminant γδ T Cells  

Activation and Migration of CD8 T Cells in the Intestinal Mucosa  
Sung-Kwon Kim, Douglas S. Reed, William R. Heath, Francis Carbone, and Leo Lefrançois

The Cytoplasmic Domain of CD5 Mediates Both TCR/CD3-Dependent and -Independent Diacylglycerol Production  
Maria Simarro, Claudette Pelassy, Javier Calvo, Lourdes Places, Claude Aussel, and Francisco Lozano

Reversal of Human Allergic T Helper 2 Responses by Engagement of Signaling Lymphocytic Activation Molecule  
José M. Carballido, Gregorio Aversa, Keld Kaltoft, Benjamin G. Cocks, Juha Punnonen, Hans Yssel, Kristian Thestrup-Pedersen, and Jan E. de Vries

Molecular and Structural Immunology

Cloning and Analysis of the Promoter Region of CXCR4, a Coreceptor for HIV-1 Entry  
Masako Moriuchi, Hiroyuki Moriuchi, Willie Turner, and Anthony S. Fauci

Mechanism for Enhanced External Transfer of Dimeric IgA over Pentameric IgM: Studies of Diffusion, Binding to the Human Polymeric Ig Receptor, and Epithelial Transcytosis  
Inger B. Natvig, Finn-Eirik Johansen, Tommy W. Nordeng, Guttorm Haraldsen, and Per Brandtzæg

Human T Cell Leukemias with Continuous V(D)J Recombinase Activity for TCR-δ Gene Deletion  
Timo M. Breit, Martie C. M. Verschuren, Ingrid L. M. Wolvers-Tettero, Ellen J. Van Gastel-Mol, Karel Hählen, and Jacques J. M. van Dongen

Induction of STAT Protein Signaling Through the CD40 Receptor in B Lymphocytes: Distinct STAT Activation Following Surface Ig and CD40 Receptor Engagement  
James G. Karras, Zihua Wang, Li Huo, David A. Frank, and Thomas L. Rothstein

Alteration of Glycosylation Renders HIV Sensitive to Inactivation by Normal Human Serum  
Deborah J. Reed, Xinti Lin, Tim D. Thomas, Carl W. Birks, Jordan Tang, and Russell P. Rother

Recombining Sequence Recombination in Normal κ-Chain-Expressing B Cells  
Olga Dunda and Daniel Corcos

Cloning and Expression of the Dog Mast Cell α-Chymase Gene  
George H. Caughey, John L. Blount, Karen L. Koerber, Michael Kitamura, and Kenneth C. Fang

Embryonic Stem Cell Lines from MRL Mice Allow Genetic Modification in a Murine Model of Autoimmune Disease  
Jennifer L. Goulet, Cun-Yu Wang, and Beverly H. Koller
Cloning and Characterization of the Human Recombination Activating Gene 1 (RAG1) and RAG2 Promoter Regions
Ali A. Zarrin, Ivan Fong, Lilia Malkin, Philip A. Marsden, and Neil L. Berinstein

The Orientation of a T Cell Receptor to Its MHC Class II:Peptide Ligands
Soon-cheol Hong, Derek B. Sant'Angelo, Bonnie N. Dittel, Ruslan Medzhitov, Sangwook T. Yoon, P. Greg Waterbury, and Charles A. Janeway, Jr.

Somatic Hypermutation: Mutations 3' of Rabbit VDJ H-Chain Genes
Dennis K. Lanning and Katherine L. Knight

Rigidification of the α2 Helix of an MHC Class I Molecule by a Valine to Proline Mutation in Position 165 Does Not Prevent Peptide-Specific Antigen Presentation
Daniel Plaksin, Katevina Polakova, Michael G. Mage, and David H. Margulies

HOST DEFENSE

T Cell Receptor-Mediated Signaling Is Defective in T Cells Obtained from Patients with Primary Intracranial Tumors
Lorri A. Morford, Lucinda H. Elliott, Sonia L. Carlson, William H. Brooks, and Thomas L. Roszman

Syk-Independent Tyrosine Phosphorylation and Association of the Protein Tyrosine Phosphatases SHP-1 and SHP-2 with the High Affinity IgE Receptor
Teruaki Kimura, Juan Zhang, Kenji Sagawa, Kazuyasu Sakaguchi, Ettore Appella, and Reuben P. Siraganian

Intracytoplasmic Delivery of Listeriolysin O by a Vaccinal Strain of Bacillus anthracis Induces CD8-Mediated Protection Against Listeria monocytogenes
Jean-Claude Sirard, Catherine Fayolle, Chantal de Chastellier, Michèle Mock, Claude Leclerc, and Patrick Berche

The Surface Glycoproteins of Trypanosoma cruzi Encode a Superfamily of Variant T Cell Epitopes
Stuart J. Kahn and Monika Wleklinski

Intracellular Fate of Vacuoles Containing Toxoplasma gondii Is Determined at the Time of Formation and Depends on the Mechanism of Entry
Dana G. Mordue and L. David Sibley

B7-2 Blockade Enhances T Cell Responses to Leishmania donovani
Michaela L. Murphy, Christian R. Engwerda, Patricia M. A. Gorak, and Paul M. Kaye

Parasite-Driven In Vitro Human Lymphocyte Cytotoxicity Against Autologous Infected Macrophages from Mucosal Leishmaniasis
Cláudia Ida Brodski, Aldina Barral, Viviane Boaventura, Edgar Carvalho, and Manoel Barral-Netto

Reversal Reaction in Borderline Leprosy Is Associated with a Polarized Shift to Type 1-Like Mycobacterium leprae T Cell Reactivity in Lesional Skin: A Follow-Up Study
Claudia E. Verhagen, Eddy A. Wierenga, Anita A. M. Buffing, Mohamed A. Chand, William R. Faber, and Pranab K. Das
INFLAMMATION

4484 TGF-β Induced by Oral Tolerance Ameliorates Experimental Tracheal Eosinophilia
Kanna Haneda, Kunio Sano, Gen Tamura, Takehiko Sato, Sonoko Habu, and Kunio Shirato

4491 Activation of p38mapk, MKK3, and MKK4 by TNF-α in Mouse Bone Marrow-Derived Macrophages
Brent W. Winston, Edward D. Chan, Gary L. Johnson, and David W. H. Riches

4498 Sensitive Responses of Leukocytes to Lipopolysaccharide Require a Protein Distinct from CD14 at the Cell Surface
Thierry Vasselon, Rossitza Pironkova, and Patricia A. Detmers

4506 Mechanism of Suppression of Macrophage Nitric Oxide Release by IL-13: Influence of the Macrophage Population
Christian Bogdan, Heike Thüring, Margit Dlaska, Martin Röllinghoff, and Günter Weiss

4514 Differential Roles of Selectins and the α4-Integrin in Acute, Subacute, and Chronic Leukocyte Recruitment In Vivo
Brent Johnston, Ulrike M. Walter, Andrew C. Issekutz, Thomas B. Issekutz, Donald C. Anderson, and Paul Kubes

4524 The Fate of Pro-TNF-α Following Inhibition of Metalloprotease-Dependent Processing to Soluble TNF-α in Human Monocytes
Kimberly A. Solomon, Maryanne B. Covington, Carl P. DeCicco, and Robert C. Newton

4532 TNF-α and IL-4 Synergistically Increase Vascular Cell Adhesion Molecule-1 Expression in Cultured Vascular Smooth Muscle Cells
Jennifer L. Barks, Jay J. McQuillan, and Michael F. Iademarco

4539 Distinct CD4+ T Cell Helper Requirements in Theileria parva-Immune and -Naive Bovine CTL Precursors
Evans L. N. Taracha, Elias Awino, and Declan J. McKeever

4546 Expression of Vascular Cell Adhesion Molecule-1 by Vascular Endothelial Cells in Immune and Nonimmune Inflammatory Reactions in the Skin
Andrew A. Harrison, Claire J. Stocker, Peter T. Chapman, Yvonne T. Tsang, Tanya Y. Huehns, Robert H. Gundel, A. Mike Peters, Kevin A. Davies, Andrew J. George, Martyn K. Robinson, and Dorian O. Haskard

4555 Comparison of Tethering and Rolling of Eosinophils and Neutrophils Through Selectins and P-Selectin Glycoprotein Ligand-1
Kamala D. Patel and Rodger P. McEver

4566 Synergy Between L-Selectin Signaling and Chemotactic Activation During Neutrophil Adhesion and Transmigration

CLINICAL IMMUNOLOGY

4580 CD40 Ligand Expressed on B Cells in the BXSB Mouse Model of Systemic Lupus Erythematosus
Sarah Blossom, Elton B. Chu, William O. Weigle, and Kathleen M. Gilbert
Regulation of Anti-HIV-1 Activity of RANTES by Heparan Sulfate Proteoglycans
Tamas Oravecz, Marina Pall, Jinhai Wang, Gregory Roderiquez, Mary Ditto, and Michael A. Norcross

Increased Expression of Eotaxin in Bronchoalveolar Lavage and Airways of Asthmatics Contributes to the Chemotaxis of Eosinophils to the Site of Inflammation
Bouchaib Lamkhioued, Paolo M. Renzi, Sylvie Abi-Younes, Eduardo A. Garcia-Zepada, Z. Allakhverdi, Omar Ghaffar, Marc E. Rothenberg, Andrew D. Luster, and Qutayba Hamid

Myelin Protein Expression Is Increased in Lymph Nodes of Mice with Relapsing Experimental Autoimmune Encephalomyelitis

Skin-Homing, CLA+ Memory T Cells Are Activated in Atopic Dermatitis and Regulate IgE by an IL-13-Dominated Cytokine Pattern: IgG4 Counter-Regulation by CLA- Memory T Cells
Mubeccel Akdis, Cezmi A. Akdis, Lorenz Weigl, Reiner Disch, and Kurt Blaser

CD40 Ligand-CD40 Interactions Are Necessary for the Initiation of Insulitis and Diabetes in Nonobese Diabetic Mice
Balaji Balasa, Troy Krahl, Gail Patstone, Jae Lee, Roland Tisch, Hugh O. McDevitt, and Nora Sarvetnick

Fas Ligand Expression and Function in Systemic Lupus Erythematosus
Jeremy McNally, Dae-Hyun Yoo, Jörn Drappa, Jai-Li Chu, Hideo Yagita, Steven M. Friedman, and Keith B. Elkon

Author Index