177 (2)

This information is current as of June 2, 2022.

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
767 IN THIS ISSUE

BRIEF REVIEWS

769 CD1d Ligands: The Good, the Bad, and the Ugly
Randy R. Brutkiewicz

CUTTING EDGE

777 Cutting Edge: Latecomer CD8 T Cells Are Imprinted with a Unique Differentiation Program
Warren N. D’Souza and Stephen M. Hedrick

782 Cutting Edge: Human β Defensin 3—A Novel Antagonist of the HIV-1 Coreceptor CXCR4
Zhimin Feng, George R. Dubyak, Michael M. Lederman, and Aaron Weinberg

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

787 Disruption of Cyclin D3 Blocks Proliferation of Normal B-1a Cells, but Loss of Cyclin D3 Is Compensated by Cyclin D2 in Cyclin D3-Deficient Mice
Jennifer M. Mataraza, Joseph R. Tumang, Maria R. Gumina, Sean M. Gurdak, Thomas L. Rothstein, and Thomas C. Chiles

796 Clustering of Pre-B Cell Integrins Induces Galectin-1-Dependent Pre-B Cell Receptor Relocalization and Activation
Benjamin Rossi, Marion Eipeli, Claudine Schiff, and Laurent Gauthier

804 Thymic Alterations in EphA4-Deficient Mice
Juan J. Muñoz, David Alfaro, Javier García-Ceca, Luis M. Alonso-C, Eva Jiménez, and Agustín Zapata

814 Inhibition of Th2-Mediated Allergic Airway Inflammatory Disease by CD137 Costimulation
Yonglian Sun, Sarah E. Blink, Wenthua Liu, Youjin Lee, Boluo Chen, Julian Solway, Joel Weinstock, Lieping Chen, and Yang-Xin Fu

822 Mechanism of IFN-β-Mediated Inhibition of IL-8 Gene Expression in Astroglioma Cells
Susan Nizell, Travis Laver, Kiran Patel, and Eitty N. Benveniste
Stimulation History Dictates Memory CD8 T Cell Phenotype: Implications for Prime-Boost Vaccination
David Masopust, Sang-Jun Ha, Vaiva Vezys, and Rafi Ahmed

Regulation of Trafficking Receptor Expression in Human Forkhead Box P3+ Regulatory T Cells
Hyung W. Lim, Hal E. Broomey, and Chang H. Kim

Electron Transport Complex I Is Required for CD8+ T Cell Function
John S. Yi, Beth C. Holbrook, Ryan D. Michalek, Nathan G. Laniewski, and Jason M. Grayson

Targeted Lymphoid Homing of Dendritic Cells Is Required for Prolongation of Allograft Survival
Kym R. Garrod, Catherine K. Chang, Feng-Chun Liu, Todd V. Brennan, Robert D. Foster, and Sang-Mu Kang

Divergent Generation of Heterogeneous Memory CD4 T Cells
Vaishali R. Moulton, Nicholas D. Busbar, David B. Lee, Deepa S. Patke, and Donna L. Farber

Involvement of CD166 in the Activation of Human γδT Cells by Tumor Cells Sensitized with Nonpeptide Antigens
Yu Kato, Yoshimasa Tanaka, Mikihiro Hayashi, Katsuya Okawa, and Nagahiro Minato

Small Interfering RNA-Mediated Knockdown of Notch Ligands in Primary CD4+ T Cells and Dendritic Cells Enhances Cytokine Production
Yvette Stallwood, Emmanuel Briand, Katrina M. Ray, George A. Ward, Beverley J. Smith, Emma Nye, Brian R. Champion, and Graham J. McKenzie

Suppression of Antitumor Immunity by IL-10 and TGF-β-Producing T Cells Infiltrating the Growing Tumor: Influence of Tumor Environment on the Induction of CD4+ and CD8+ Regulatory T Cells
Andrew G. Jarnicki, Joanne Lysaght, Stephen Todryk, and Kingston H. G. Mills

Impaired Generation of CD8+ Thymocytes in Ets-1-Deficient Mice
James L. Clements, Shinu A. John, and Lee Ann Garrett-Sinha

Influence of Mucosal Adjuvants on Antigen Passage and CD4+ T Cell Activation during the Primary Response to Airborne Allergen
Matthew E. Wikstrom, Eva Batanero, Miranda Smith, Jennifer A. Thomas, Christophe von Garnier, Patrick G. Holt, and Philip A. Stumbles

Antigen-Experienced T Cells Limit the Priming of Naive T Cells during Infection with Leishmania major
Peter M. Gray, Steven L. Reiner, Deborah F. Smith, Paul M. Kaye, and Phillip Scott

Novel Function of IFN-γ Negative Regulation of Dendritic Cell Migration and T Cell Priming
Xiaodong Wu, Wanqiu Hou, Shuhui Sun, Enguangu Bi, Yuan Wang, Mude Shi, Jingwu Zang, Chen Dong, and Bing Sun

Rapamycin-Mediated Enrichment of T Cells with Regulatory Activity in Stimulated CD4+ T Cell Cultures Is Not Due to the Selective Expansion of Naturally Occurring Regulatory T Cells but to the Induction of Regulatory Functions in Conventional CD4+ T Cells
Danila Valmori, Valeria Tosello, Naira E. Souleimanian, Emmanuelle Godefroy, Luigi Scotto, Yu Wang, and Maha Ayyoub

Protein Kinase Cδ Is Essential to Maintain CIITA Gene Expression in B Cells
Myung-Ja Kwon, Jae-Won Soh, and Cheong-Hee Chang

Pathogenic Consequences in Semen Quality of an Autoimmune Response against the Prostate Gland: From Animal Models to Human Disease
Ruben D. Motrich, Mariana Maccioni, Andres A. Ponce, Gerardo A. Gatti, Juan P. Mackern Oberti, and Virginia E. Rivero

Functional Specialization of Memory Th Cells Revealed by Expression of Integrin CD49b
George Kassiotis, David Gray, Ziba Kiasfard, Jörg Zwirner, and Brigitta Stockinger

Generation of T Cell Help through a MHC Class I-Restricted TCR
Helmut W. H. G. Kessels, Koen Schepers, Marly D. van den Boom, David J. Topham, and Ton N. M. Schumacher

Role of Immunoproteasomes in Cross-Presentation
Michael J. Palmowski, Uzi Gileadi, Mariolina Salio, Awen Gallimore, Maggie Millrain, Edward James, Caroline Addey, Diane Scott, Julian Dyson, Elizabeth Simpson, and Vincenzo Cerundolo
CD8α Coreceptor to Improve TCR Gene Transfer to Treat Melanoma: Down-Regulation of Tumor-Specific Production of IL-4, IL-5, and IL-10
Ralph A. Willemsen, Zsolt Sebestyén, Cees Ronteltap, Cor Berrevoets, Joost Drexhage, and Reno Debets

TRAIL Deficiency Delays, but Does Not Prevent, Erosion in the Quality of “Helpless” Memory CD8 T Cells
Vladimir P. Badovinac, Kelly A. Nordyke Messingham, Thomas S. Griffith, and John T. Harty

Differential Pattern Recognition Receptor Expression but Stereotyped Responsiveness in Rat Spleen Dendritic Cell Subsets
François-Xavier Hubert, Cécile Voisine, Cédric Louvet, Jean-Marie Heslan, Asmahani Onabed, Michèle Heslan, and Régis Josien

High-Affinity Interactions between Peptides and Heat Shock Protein 70 Augment CD8+ T Lymphocyte Immune Responses
Jessica B. Flechtner, Kenya Prince Cohane, Sunil Mehta, Paul Slusarewicz, Alexis Kays Leonard, Brian H. Barber, Daniel L. Levey, and Sofija Andjelic

Activation of Plasmacytoid Dendritic Cells with TLR9 Agonists Initiates Invariant NKT Cell-Mediated Cross-Talk with Myeloid Dendritic Cells

Nonspecific Desensitization, Functional Memory, and the Characteristics of SHIP Phosphorylation following IgE-Mediated Stimulation of Human Basophils
Donald MacGlashan, Jr. and Natalia Vilarinño

CTLA-4 Overexpression Inhibits T Cell Responses through a CD28-B7-Dependent Mechanism
John J. Engelhardt, Timothy J. Sullivan, and James P. Allison

Epigenetic Remodeling of the IL-2 and IFN-γ Loci in Memory CD8 T Cells Is Influenced by CD4 T Cells
John K. Northrop, Rajan M. Thomas, Andrew D. Wells, and Hao Shen

Costimulation via CD55 on Human CD4+ T Cells Mediated by CD97
Melania Capasso, Lindy G. Durrant, Martin Stacey, Siamon Gordon, Judith Ramage, and Ian Spendlove

MD1 Expression Regulates Development of Regulatory T Cells
Reginald M. Gorczynski, Yu Kai, and Kenku Ke Miyake

Grb2 and Gads Exhibit Different Interactions with CD28 and Play Distinct Roles in CD28-Mediated Costimulation
Ryouke Watanabe, Yohsuke Harada, Kei Takeda, Jun Takahashi, Kazunobu Ohnuki, Shuhei Ogawa, Daisuke Ohgai, Nanako Kaibara, Osamu Koizumi, Kazunari Taneue, Hiroshi Toma, Kazuo Sugamura, and Ryo Abe

Prostaglandin E2 Augments IL-10 Signaling and Function
Hyeonjoo Cheon, Young Hee Rho, Seong Jae Choi, Young Ho Lee, Gwan Gyu Song, Jeongwon Sohn, Nam Hee Won, and Jong Dae Ji

Agonist Ligands Expressed by Thymic Epithelium Enhance Positive Selection of Regulatory T Lymphocytes from Precursors with a Normally Diverse TCR Repertoire
Julie Ribot, Paola Romagnoli, and Joost P. M. van Meerwijk

Molecular and Structural Immunology

Germinal Center Function in the Spleen during Simian HIV Infection in Rhesus Monkeys
David H. Margolin, Erika H. Saunders, Benjamin Bronfin, Nicole de Roa, Michael K. Axtell, Olga G. Goloubeva, Sara Eapen, Rebecca S. Gelman, and Norman L. Letvin

Paucity of V-D-J Rearrangements and V_{11} Replacement Events in Lupus Prone and Nonautoimmune TdT<sup>−/−</sup> and TdT<sup>+</sup>/<sup>+/+</sup> Mice
Lisa C. Watson, Chantelle S. Moffatt-Blue, R. Zachary McDonald, Elizabeth Kompfster, Dijemal Air-Azzouzene, David Nemazee, Argyrios N. Theofilopoulos, Dwight H. Kono, and Ann J. Feeney
Modulation of the Effector Functions of a Human IgG1 through Engineering of Its Hinge Region
William F. Dall’Acqua, Kimberly E. Cook, Melissa M. Damschroder, Robert M. Woods, and Herren Wu

HS1-Associated Protein X-1 Interacts with Membrane-Bound IgE: Impact on Receptor-Mediated Internalization
Iris Oberndorfer, Doris Schmid, Roland Geisberger, Gertrude Achatz-Strausberger, Reto Cramer, Marinus Lamers, and Gernot Achatz

Roles of the Ig κ Light Chain Intronic and 3′ Enhancers in Igk Somatic Hypermutation
Matthew A. Inlay, Heather H. Gao, Valerie H. Odegard, Tongxiong Lin, David G. Schatz, and Yang Xu

Mitogen-Activated Protein Kinase Pathway Activation by the CD6 Lymphocyte Surface Receptor
Anna Ibáñez, Maria-Rosa Sarrias, Montserrat Farnós, Idobia Gimferrer, Carles Serra-F угís, Jordi Vives, and Francisco Lozano

Sumoylation of Daxx Regulates IFN-Induced Growth Suppression of B Lymphocytes and the Hormone Receptor-Mediated Transactivation
Ryuta Muromoto, Masato Ishida, Kenji Sugiyama, Yuichi Sekine, Kenji Oritani, Kazuya Shimoda, and Tadashi Matsuda

Granzyme M Directly Cleaves Inhibitor of Caspase-Activated DNase (CAD) to Unleash CAD Leading to DNA Fragmentation
Hongxia Lu, Qiang Hou, Tongbiao Zhao, Honglian Zhang, Qixiang Zhang, Lianfeng Wu, and Zunen Fan

The Histone Methyltransferase Suv39h1 Increases Class Switch Recombination Specifically to IgA
Sean P. Bradley, Denise A. Kaminski, Antoine H. F. M. Peters, Thomas Fenuwein, and Janet Stavnezer

HOST DEFENSE

Endogenous Tissue-Type Plasminogen Activator Is Protective during Escherichia coli-Induced Abdominal Sepsis in Mice
Roemarijn Renckens, Juris J. T. H. Roelofs, Sandrine Flurquin, Alex F. de Vos, Jennie M. Pater, H. Roger Lijnen, Peter Carmeliet, Cornelis van ’t Veer, and Tom van der Poll

GM1 Binding-Deficient Exotoxin Is a Potent Noninflammatory Broad Spectrum Intradermal Immunoadjuvant
J. Paul Zoetteiew, Diane E. Epperon, Jackie D. Porter, Chen X. Zhang, Olga Y. Frolova, Ania P. Constantinides, Steven R. Fuhrmann, Moustapha El-Amine, Jing-Hui Tian, Larry R. Ellingsworth, and Gregory M. Glenn

Resistance of C57BL/6 Mice to Amoebiasis Is Mediated by Nonhemopoietic Cells but Requires Hemopoietic IL-10 Production
Shinjiro Hamano, Amon Asgharpour, Suzanne E. Stroup, Thomas A. Wynn, Edward H. Leiter, and Eric Houp

Epithelial Cell IκB-Kinase β Has an Important Protective Role in Clostridium difficile Toxin A-Induced Mucosal Injury
Sungwon Chae, Lars Eckmann, Yukiyo Miyamoto, Charalabos Pothoulakis, Michael Karin, and Martin F. Kagnoff

Streptococcal M Protein: A Multipotent and Powerful Inducer of Inflammation

NK Cell Responses to Plasmodium Infection and Control of Intrahepatic Parasite Development
Jacques Roland, Valérie Soulard, Christèle Sellier, Anne-Marie Drapier, James P. Di Santo, Pierre-André Cazenave, and Sylviane Pied

Wolbachia Endosymbiotic Bacteria of Brugia malayi Mediate Macrophage Tolerance to TLR- and CD40-Specific Stimuli in a MyD88/TLR2-Dependent Manner
Joseph D. Turner, R. Stuart Langley, Kelly L. Johnston, Gill Egerton, Samuel Wanji, and Mark J. Taylor

Lymph Node Resident Rather Than Skin-Derived Dendritic Cells Initiate Specific T Cell Responses after Leishmania major Infection
Giandomenica Iezzi, Anja Fröhlich, Bettina Ernst, Franziska Ampenberger, Sem Saeland, Nicolas Gaichenhau, and Manfred Kopf
INFLAMMATION

1257  *Chlamydia* Heat Shock Protein 60 Induces Trophoblast Apoptosis through TLR4  
Ozlem Equils, Daining Lu, Mary Gatter, Steve S. Witkin, Cristina Bertolotto, Moshe Ardit, James A. McGregor,  
Charles F. Simmons, and Calvin J. Hobel

1264 Signaling via Platelet-Activating Factor Receptors Accounts for the Impairment of Neutrophil Migration  
in Polymicrobial Sepsis  
Susana E. Moreno, José C. Alvez-Filho, Fabricio Rio-Santos, João S. Silva, Sérgio H. Ferreira, Fernando Q. Cunha,  
and Mauro M. Teixeira

1272 Hyaluronan Fragments Act as an Endogenous Danger Signal by Engaging TLR2  
Kara A. Scheibner, Michael A. Lutz, Sada Boodoo, Matthew J. Fenton, Jonathan D. Powell, and Maureen R. Horton

1282 Dynamic and Transient Remodeling of the Macrophage IL-10 Promoter during Transcription  
Xia Zhang, Justin P. Edwards, and David M. Mosser

1289 Human Monocytes Recognize Porcine Endothelium via the Interaction of Galectin 3 and α-GAL  
Rongyu Jin, Allen Greenwald, Mark D. Peterson, and Thomas K. Waddell

1296 Zinc Is Required for FceRI-Mediated Mast Cell Activation  
Koki Kabu, Satoru Yamasaki, Daiiuke Kamimura, Yukitaka Ito, Aiko Hasagawa, Emi Sato, Hidemitsu Kitamura,  
Keigo Nishida, and Toshio Hinano

1306 Divergent Signaling Pathways in Phagocytic Cells during Sepsis  
Ren-Feng Guo, Nieli C. Riedemann, Lei Sun, Hongwei Gao, Kevin X. Shi, Jayne S. Reuben, Vidya J. Sarma,  
Firas S. Zetoune, and Peter A. Ward

1314 TNF-α-Independent IL-8 Expression: Alterations in Bacterial Challenge Dose Cause Differential Human  
Monocytic Cytokine Response  
Julia B. Patrone, Samuel E. Bish, and Daniel C. Stein

1323 Interleukin-13 Enhances Cyclooxygenase-2 Expression in Activated Rat Brain Microglia: Implications for  
Death of Activated Microglia  

1330 Activation of Ca2+-Dependent Signaling by TLR2  
Jarin Chun and Alice Prince

CLINICAL IMMUNOLOGY

1338 A Novel Approach to Characterize Clonality and Differentiation of Human Melanoma-Specific T Cell  
Responses: Spontaneous Priming and Efficient Boosting by Vaccination  
Daniel E. Speiser, Petra Baumgaertner, Catherine Barboy, Verena Rubio-Godoy, Alexandre Moulin, Patricia Cortheyes,  
Estelle Devevre, Pierre-Yves Dietrich, Donata Rinoldi, Danielle Liénard, Jean Charles Cerottini, Pedro Romero,  
and Nathalie Ruffin

1349 Role of TLR9 in Anti-Nucleosome and Anti-DNA Antibody Production in *lpr* Mutation-Induced  
Murine Lupus  
Aurélia Larrouie, Philippe Courville, Isabelle Auquitt, Arnaud Françoiz, Christophe Arnould, François Tron,  
Daniel Gilbert, and Philippe Musette

1355 Catalytic IgG from Patients with Hemophilia A Inactivate Therapeutic Factor VIII  
Sébastien Lacroix-Desmazes, Bharath Wootla, Suryasarathi Dasgupta, Sandrine Delignat, Jagadeesh Bayry, Joseph Reinhold,  
Johan Hoebbeke, Evgenii Saenko, Michel D. Kazatchkine, Alain Friboulet, Olivier Christophe, Valakunja Nagaraja,  
and Srini V. Kaveri

1364 Author Index

1367 AAI Membership Application

1368 AAI Trainee Membership Application