This information is current as of June 6, 2017.

**Subscription**
Information about subscribing to *The Journal of Immunology* is online at:
[http://jimmunol.org/subscription](http://jimmunol.org/subscription)

**Permissions**
Submit copyright permission requests at:
[http://www.aai.org/About/Publications/JI/copyright.html](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](http://jimmunol.org/alerts)
34 Cutting Edge: Autoimmune Disease Risk Variant of STAT4 Confers Increased Sensitivity to IFN-α in Lupus Patients In Vivo
Silvia N. Kariuki, Kyriakos A. Kirou, Emma J. MacDermott, Lilliana Barillas-Arias, Mary K. Crow, and Timothy B. Niewold

39 Cutting Edge: Down-Regulation of MHC Class I-Related Chain A on Tumor Cells by IFN-γ-Induced MicroRNA
Deepak Yadav, Jennifer Ngolab, Rod Seung-Hwan Lim, Siddharth Krishnamurthy, and Jack D. Bui

44 Cutting Edge: Developmental Stage-Specific Recruitment of Cohesin to CTCF Sites throughout Immunoglobulin Loci during B Lymphocyte Development
Stephanie C. Degner, Timothy P. Wong, Gyntis Jankevicius, and Ann N. Feeney

49 Cutting Edge: The Metalloproteinase ADAM17/TNF-α-Converting Enzyme Regulates Proteolytic Shedding of the MHC Class I-Related Chain B Protein
Philippe Boutet, Sonia Aguérez-González, Susan Atkinson, Caroline J. Pennington, Dylan R. Edwards, Gillian Murphy, Hugh T. Reyburn, and Mar Valés-Gómez

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

55 Activated Human Neonatal CD8+ T Cells Are Subject to Immunomodulation by Direct TLR2 or TLR5 Stimulation
Mark McCarron and Denis J. Reen

63 Identification and Characterization of a Transmembrane Isoform of CD160 (CD160-TM), a Unique Activating Receptor Selectively Expressed upon Human NK Cell Activation
Jérôme Giustiniani, Armand Bensussan, and Anne Marie-Cardine

72 Airway Epithelial Cells Regulate the Functional Phenotype of Locally Differentiating Dendritic Cells: Implications for the Pathogenesis of Infectious and Allergic Airway Disease
Angela Rate, John W. Upham, Anthony Bosco, Kathy L. McKenna, and Patrick G. Holt

84 App1: An Antiphagocytic Protein That Binds to Complement Receptors 3 and 2
Paola Stano, Virginia Williams, Mariestella Villani, Eugene S. Cymbalyuk, Afsha Qureshi, Yuxiang Huang, Giulia Morace, Chiara Luberto, Stephen Tomlinson, and Maurizio Del Poeta

92 Functional Analysis of Killer Ig-Like Receptor-Expressing Cytomegalovirus-Specific CD8+ T Cells
Lars T. van der Veken, Maria Diez Campelo, Menno A. W. G. van der Hoorn, Renate S. Hagedoorn, H. M. Esther van Egmond, Jeroen van Bergen, Roel Willems et al., J. H. Frederik Falkenburg, and Mirjam H. M. Heemskerk

102 CD28 Signaling in T Regulatory Precursors Requires p56lck and Rafts Integrity to Stabilize the Foxp3 Message
Cristina Nazarov-Stoica, Jacqueline Surls, Constantin Bona, Sofia Casares, and Teodor-D. Brumeanu

111 CD69+CD4+CD25− T Cells, a New Subset of Regulatory T Cells, Suppress T Cell Proliferation through Membrane-Bound TGF-β1
Yanmei Han, Qiuli Guo, Minggang Zhang, Zhubo Chen, and Xuetao Cao

121 An Essential Role for the Stalk Region of CD8β in the Coreceptor Function of CD8
Lorna Retig, Louise McNeill, Nitza Sarner, Philippe Guillaume, Immanuel Luescher, Mauro Tolaini, Dimitris Kiousis, and Ros Zamorska

130 Checkpoints in the Development of Thymic Cortical Epithelial Cells
Saba Shakib, Guillaume E. Desanti, William E. Jenkinson, Sonia M. Parnell, Eric J. Jenkinson, and Graham Anderson

138 Deviation of the B Cell Pathway in Senescent Mice Is Associated with Reduced Surrogate Light Chain Expression and Altered Immature B Cell Generation, Phenotype, and Light Chain Expression
Sarah Alter-Wolf, Bonnie B. Blomberg, and Richard L. Riley

148 Levels of Foxp3 in Regulatory T Cells Reflect Their Functional Status in Transplantation
Sunil K. Chauhan, Daniel R. Saban, Hyung K. Lee, and Reza Dana

154 TCRμ Recombination and Transcription Relative to the Conventional TCR during Postnatal Development in Opossums
Zuly E. Parra, Michelle L. Baker, April M. Lopez, Jonathan Trujillo, Joseph M. Volpe, and Robert D. Miller
Antibodies to MHC Class I Induce Autoimmunity: Role in the Pathogenesis of Chronic Rejection
Naohiko Fukami, Sabarinathan Ramachandran, Deepi Saini, Michael Walter, William Chapman, G. Alexander Patterson, and Thalachallour Mohanakumar

Genome-Wide Innate Immune Responses in HIV-1-Infected Macrophages Are Preserved Despite Attenuation of the NF-κB Activation Pathway
Mahdad Noursadeghi, Jhen Tsang, Robert F. Miller, Sarah Straschewski, Paul Kellam, Benjamin M. Chain, and David R. Katz

Btk Regulates B Cell Receptor-Mediated Antigen Processing and Presentation by Controlling Actin Cytoskeleton Dynamics in B Cells
Shruti Sharma, Gregory Orlowski, and Wenxia Song

The Peroxisome Proliferator-Activated Receptor γ Agonist Rosiglitazone Ameliorates Murine Lupus by Induction of Adiponectin
Tamar Aprahamian, Ramon G. Bonegin, Christophe Richiez, Kei Yasuda, Lo-Ku Chiang, Kaori Sato, Kenneth Walsh, and Ian R. Rifkin

Genomic Instability Resulting from Blm Deficiency Compromises Development, Maintenance, and Function of the B Cell Lineage
Holger Babbe, Jennifer McMenamin, Elias Hobeika, Jing Wang, Scott J. Rodig, Michael Reth, and Philip Leder

IL-3 Inhibits TNF-α-Induced Bone Resorption and Prevents Inflammatory Arthritis
S. D. Yogesha, Shruti M. Khapli, Rupesh K. Srivastava, Lasitha S. Mangashetti, Satish T. Pote, Gyan C. Mishra, and Mohan R. Wani

Estradiol Increases IL-8 Secretion of Normal Human Breast Tissue and Breast Cancer In Vivo
Christina Bendrik and Charlotta Dabrosin

OX40 Costimulation Prevents Allograft Acceptance Induced by CD40-CD40L Blockade
Bryna E. Burrell, Guangyi Lu, Xian C. Li, and D. Keith Bishop

Role of TNF-α Produced by Nonantigen-Specific Cells in a Fulminant Hepatitis Mouse Model
Hiroyasu Ito, Kazuki Ando, Tetsuya Ishikawa, Kuniaki Saito, Masao Takemura, Michio Imawari, Hiataki Moriwaki, and Mitsuru Seishima

Influence of B Cell Antigen Receptor Expression Level on Pathways of B Cell Tolerance Induction
Xiaohe Liu, Shixue Shen, and Tim Manser

Molecular and Structural Immunology

E2A Acts in cis in G1 Phase of Cell Cycle to Promote Ig Gene Diversification
Munehisa Yabuki, Ellen C. Ordinario, W. Jason Cummings, Monica M. Fujii, and Nancy Maizels

Two Structurally Different Rituximab-Specific CD20 Mimotope Peptides Reveal That Rituximab Recognizes Two Different CD20-Associated Epitopes
Federico Perosa, Elvira Favoino, Chiara Vicenti, Andrea Guarnera, Vito Racanelli, Vito De Pinto, and Franco Dammacco

A Simple Mycobacterial Monomycolated Glycerol Lipid Has Potent Immunostimulatory Activity
Claire S. Andersen, Else Marie Agger, Ida Rosenkrund, Jessica M. Gomes, Veeral Bhouruth, Kevin J. C. Gibson, Rune V. Petersen, David E. Minnikin, Giorgy B. Besra, and Peter Andersen

MicroRNA-221–222 Regulate the Cell Cycle in Mast Cells
Ramon J. Mayoral, Matthew E. Pipkin, Mikhail Pachkov, Erik van Nimwegen, Anjana Rao, and Silvia Monticelli

Presentation of Cytosolically Stable Peptides by HLA-B27 Is Not Dependent on the Canonic Interactions of N-Terminal Basic Residues in the A Pocket
Patricia Gómez, Carla Mavián, Begoña Galocha, Noé Garcia-Medel, and José A. López de Castro

Residue Lys57 in the Collagen-Like Region of Human L-Ficolin and Its Counterpart Lys47 in H-Ficolin Play a Key Role in the Interaction with the Mannan-Binding Lectin-Associated Serine Proteases and the Collectin Receptor Calreticulin
Monique Lacroix, Chantal Dumestre-Pérard, Guy Schoeb, Gunnar Housen, Jean-Yves Cesbron, Gérard J. Arlaud, and Nicole M. Thielens
IMMUNOCHEMISTRY

466 CHAC1/MGC4504 Is a Novel Proapoptotic Component of the Unfolded Protein Response, Downstream of the ATF4-ATF3-CHOP Cascade
Imran N. Mungrue, Joanne Pagnon, Omid Kohannim, Peter S. Gargalovic, and Aldons J. Luis

HOST DEFENSE

477 Human Cytomegalovirus Paralyzes Macrophage Motility through Down-Regulation of Chemokine Receptors, Reorganization of the Cytoskeleton, and Release of Macrophage Migration Inhibitory Factor
Giada Frascaroli, Stefania Varani, Nina Blankenborn, Robert Pretsch, Michael Bacher, Lin Leng, Richard Bucala, Maria Paola Landini, and Thomas Mertens

489 Toxoplasma gondii Prevents Chromatin Remodeling Initiated by TLR-Triggered Macrophage Activation
Jin Leng, Barbara A. Butcher, Charlotte E. Egan, Delbert S. Abi Abdallah, and Eric Y. Denkers

498 The Loss and Gain of Marginal Zone and Peritoneal B Cells Is Different in Response to Relapsing Fever and Lyme Disease
Susan Malkiel, Christopher J. Kublow, Patricio Mena, and Jorge L. Benach

507 Potent and Broad-Spectrum Antimicrobial Activity of CXCL14 Suggests an Immediate Role in Skin Infections
Christa Maerk, Simone Meuter, Mark Liebi, Kathrin Mühlemann, Mitchell J. Frederick, Nikhil Yawalkar, Bernhard Moser, and Marlene Wolf

515 Programmed Necrotic Cell Death Induced by Complement Involves a Bid-Dependent Pathway
Lea Ziporen, Natalie Dunin, Taisia Sh mushkovich, Atan Gross, and Zvi Fishelson

522 Activated Vγ9Vδ2 T Cells Trigger Granulocyte Functions via MCP-2 Release
Chiara A grati, Eleonora Comini, Alessandra Sacchi, Veronica Bordoni, Cristiana Gioia, Rita Casetti, Federica Turch, Marco Tripodi, and Federico Martini

530 Crosstalk between Prostaglandin E2 and Leukotriene B4 Regulates Phagocytosis in Alveolar Macrophages via Combinatorial Effects on Cyclic AMP
Sang Pyo Lee, Carlos H. Sereza ni, Alexandra I. Medeiros, Megan N. Ballinger, and Marc Peters-Golden

INFLAMMATION

538 The Bacterial Fermentation Product Butyrate Influences Epithelial Signaling via Reactive Oxygen Species-Mediated Changes in Cullin-1 Neddylation
Amrita Kumar, Huixia Wu, Lauren S. Collier-Hyams, Young-Man Kwon, Jason M. Hanson, and Andrew S. Neish

547 Toll-Like Receptor-Mediated Production of IL-1Ra Is Negatively Regulated by GSK3 via the MAPK ERK1/2
Kunal Rehani, Huizhi Wang, Carlos A. Garcia, Denis F. Kinane, and Michael Martin

554 Immune Complex/Ig Negatively Regulate TLR4-Triggered Inflammatory Response in Macrophages through FcγRIIb-Dependent PGE2 Production
Yan Zhang, Shuxin Liu, Juan Liu, Ting Zhang, Qian Shen, Yizhi Yu, and Xuetao Cao

563 Inflammatory Cytokine Production by Human Neutrophils Involves C/EBP Transcription Factors
Alexandre Cloutier, Chantal Guindi, Pierre Larivière, Claire M. Dubois, Abdelaziz Amrani, and Patrick P. McDonald

572 Interacting Neuroendocrine and Innate and Acquired Immune Pathways Regulate Neutrophil Mobilization from Bone Marrow following Hemorrhagic Shock
Yujuan Liu, Youzhong Yuan, Yuchua Li, Jian Zhang, Guozhi Xiao, Yoram Vodovotz, Timothy R. Billiar, Mark A. Wilson, and Jie Fan

581 Milk Fat Globule Epidermal Growth Factor-Factor VIII Is Down-Regulated in Sepsis via the Lipopolysaccharide-CD14 Pathway
Hidefumi Komura, Michael Miksa, Rongqian Wu, Sanna M. Goyert, and Ping Wang
588 IL-10 Enhances MD-2 and CD14 Expression in Monocytes and the Proteins Are Increased and Correlated in HIV-Infected Patients
Øystein Sandanger, Liv Ryan, Janne Bohnhorst, Ann-Charlotte Iversen, Harald Husebye, Øyvind Halaas, Linn Landro, Pål Aukrust, Sig S. Freland, Greg Elion, Alberto Viinint, Olav Øktedalen, Jan Kristian Damås, Anders Sundan, Douglas Golenbock, and Terje Espevik

596 Potential Roles of a Special CD8ααααααααα Cell Population and CC Chemokine Thymus-Expressed Chemokine in Ovulation Related Inflammation
Cindy Zhou, Jean Wu, Jason Borillo, Lisa Torres, John McMahon, and Ya-Huan Lou

604 Crosstalk between CXCR4/Stromal Derived Factor-1 and VLA-4/VCAM-1 Pathways Regulates Neutrophil Retention in the Bone Marrow
Joseph M. Petty, Christopher C. Lenox, Daniel J. Weiss, Matthew E. Poynter, and Benjamin T. Suratt

613 Therapeutic Targeting of IL-6 Trans Signaling Counteracts STAT3 Control of Experimental Inflammatory Arthritis
Mari A. Nowell, Anwen S. Williams, Sarah A. Carty, Jürgen Scheller, Anthony J. Hayes, Gareth W. Jones, Peter J. Richards, Simon Slunn, Matthias Ernst, Brendan J. Jenkins, Nicholas Topley, Stefan Rose-John, and Simon A. Jones

623 CD11b+ Myeloid Cells Are the Key Mediators of Th2 Cell Homing into the Airway in Allergic Inflammation
Benjamin D. Medoff, Edward Seung, Sandra Hong, Seddon Y. Thomas, Barry P. Sandall, Jeremy S. Duffield, Douglas A. Kuperman, David J. Erle, and Andrew D. Luster

636 Reciprocal Expression and Signaling of TLR4 and TLR9 in the Pathogenesis and Treatment of Necrotizing Enterocolitis
Steven C. Gribar, Chhinder P. Sodhi, Ward M. Richardson, Rahul J. Anand, George K. Gittes, Maria F. Branca, Adam Jakub, Xia-hua Shi, Sohail Shah, John A. Ozolek, and David J. Hackam

647 Mast Cells Contribute to Autoimmune Inflammatory Arthritis via Their Tryptase/Heparin Complexes

657 Th17-Polarized Immune Response in a Murine Model of Hypersensitivity Pneumonitis and Lung Fibrosis
Philip L. Simonian, Christina L. Roark, Fabian Wehrmann, Allison K. Lanham, Fernando Diaz del Valle, Willi K. Born, Rebecca L. O’Brien, and Andrew P. Fontenot

666 Citrullination of CXCL12 Differentially Reduces CXCR4 and CXCR7 Binding with Loss of Inflammatory and Anti-HIV-1 Activity via CXCR4
Sofie Struyf, Samuel Noppen, Tamara Los, Anneleen Mortier, Miek Gouvy, Hannelien Verbeke, Dana Huskens, Souphalone Luangsay, Marc Parmentier, Karel Geboes, Dominique Schols, Jo Van Damme, and Paul Proost

675 Heat Shock Proteins HSP27 and HSP70 Are Present in the Skin and Are Important Mediators of Allergic Contact Hypersensitivity
Nakita Yuaf, Tahseen H. Nasti, Chun-Ming Huang, Brad S. Huber, Tarannum Jainel, Hui-Yi Lin, Hui Xu, and Craig A. Elmet

684 Adiponectin and Functional Adiponectin Receptor 1 Are Expressed by Airway Epithelial Cells in Chronic Obstructive Pulmonary Disease
Marina Miller, Jae Youn Cho, Alexa Pham, Joe Ramidell, and David H. Broide

692 Targeting TLR2 Attenuates Pulmonary Inflammation and Fibrosis by Reversion of Suppressive Immune Microenvironment
Hong-Zhen Yang, Bing Cui, Han-Zhi Liu, Zhi-Rong Chen, Hui-Min Yan, Fang Hua, and Zhuo-Wei Hu

CLINICAL IMMUNOLOGY

703 Anti-Moesin Antibodies in the Serum of Patients with Aplastic Anemia Stimulate Peripheral Blood Mononuclear Cells to Secrete TNF-α and IFN-γ
Hirohito Takamatsu, J. Luis Espinoza, Xuebang Lu, Zhirong Qi, Katsuya Okawa, and Shinji Nakao

711 Involvement of the Apoptotic Mechanism in Pemphigus Foliaceus Autoimmune Injury of the Skin
Ning Li, Minglang Zhao, Jinzhao Wang, Zhi Liu, and Luis A. Diaz

Downloaded from http://www.jimmunol.org/ by guest on June 6, 2017
The CD70/CD27 Pathway Is Critical for Stimulation of an Effective Cytotoxic T Cell Response against B Cell Precursor Acute Lymphoblastic Leukemia
Ludmila Glouchkova, Birgit Ackermann, Andree Zibert, Roland Meisel, Meinolf Siepermann, Gritta E. Janka-Schaub, Ulrich Goebel, Anja Troeger, and Dagmar Dilloo

CORRECTIONS

AUTHOR INDEX

INFORMATION FOR AUTHORS