This information is current as of May 1, 2017.

178 (7)

*J Immunol* 2007; 178:4003-4694; ;
http://www.jimmunol.org/content/178/7

---

**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
IN THIS ISSUE

PILLARS OF IMMUNOLOGY

4005 Allophenic Mice: A Pillar Awaiting Its Superstructure
Jeffrey L. Platt

Beatrice Mintz and Willys K. Silvers

BRIEF REVIEWS

4011 NK Cells and Cancer
Loris Zamai, Cristina Ponti, Prisco Mirandola, Giuliana Gobbi, Stefano Papa, Laura Galeotti, Lucio Cocco, and Marco Vitale

4017 Cutting Edge: Immature Human Dendritic Cells Express Latency-Associated Peptide and Inhibit T Cell Activation in a TGF-β-Dependent Manner
Roopali Gandhi, David E. Anderson, and Howard L. Weiner

4019 Cutting Edge: IL-2 Is Essential for TGF-β-Mediated Induction of Foxp3+ T Regulatory Cells
Todd S. Davidson, Richard J. DiPaolo, John Andersson, and Ethan M. Shevach

4022 Cutting Edge: Limiting Amounts of IL-7 Do Not Control Contraction of CD4+ T Cell Responses
Pulak Tripathi, Thomas C. Mitchell, Fred Finkelman, and David A. Hildeman

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

4033 The T Cell Costimulator TL1A Is Induced by FcγR Signaling in Human Monocytes and Dendritic Cells
John L. Prehn, Lisa S. Thomas, Carol J. Landers, Qi T. Yu, Kathrin S. Michelsen, and Stephan R. Targan

4039 15-Deoxy-Δ12,14-Prostaglandin J2 Negatively Regulates rankl Gene Expression in Activated T Lymphocytes: Role of NF-κB and Early Growth Response Transcription Factors
Cinzia Fionda, Filomena Nappi, Mario Piccoli, Luigi Frati, Angela Santoni, and Marco Cippitelli

4051 Follicular Lymphoma Intratumoral CD4+CD25+GITR+ Regulatory T Cells Potently Suppress CD3/CD28-Stimulated Autologous and Allogeneic CD8+CD25− and CD4+CD25− T Cells
Shannon P. Hilchey, Asit De, Lisa M. Rimsza, Richard B. Bankert, and Steven H. Bernstein
4062 Function of the IL-2R for Thymic and Peripheral CD4\(^+\)CD25\(^+\) Foxp3\(^+\) T Regulatory Cells
Allison L. Bayer, Aixin Yu, and Thomas R. Malek

4072 Natural and Synthetic TLR7 Ligands Inhibit CpG-A- and CpG-C-Oligodeoxynucleotide-Induced IFN-\(\alpha\) Production
Beate Berghöfer, Gabriela Haley, Ture Frommer, Gregor Bein, and Holger Hackstein

4080 Functional Plasticity in Memory T Helper Cell Responses
Connie M. Kostuczky, Hao Shen, and Edward J. Pearce

4089 Infiltration of a Mesothelioma by IFN-\(\gamma\)-Producing Cells and Tumor Rejection after Depletion of Regulatory T Cells
Geordie Rudge, Simon P. Barrett, Bernadette Scott, and Ian R. van Driel

4097 Prostaglandin E\(_2\) Induces the Expression of IL-1\(\alpha\) in Colon Cancer Cells
Jinyi Shao and Hongmiao Sheng

4104 Different Kinetics of Blimp-1 Induction in B Cell Subsets Revealed by Reporter Gene
Kirsten A. Fairfax, Lynn M. Corcoran, Clare Pridans, Nicholas D. Huntington, Axel Kallies, Stephen L. Nutt, and David M. Tarlinton

4112 Four Functionally Distinct Populations of Human Effector-Memory CD8\(^+\) T Lymphocytes
Pedro Romero, Alfred Zippelius, Isabel Kurth, Mikael J. Pittet, Cédric Tourey, Emanuela M. Iancu, Patricia Corthesy, Eistelle Devevre, Daniel E. Speiser, and Nathalie Rufer

4120 The Constitutive Tyrosine Phosphorylation of CD3\(\xi\) Results from TCR-MHC Interactions That Are Independent of Thymic Selection
Amy M. Becker, Laura M. DeFord-Watts, Christoph Wuelfert, and Nicolai S. C. van Oers

4129 Peroxisome Proliferator-Activated Receptor \(\gamma\) (PPAR\(\gamma\)) and Immunoregulation: Enhancement of Regulatory T Cells through PPAR\(\gamma\)-Dependent and -Independent Mechanisms
Elizabeth A. Wohlfert, Frank C. Nichols, Erin Nevius, and Robert B. Clark

4136 Incomplete Depletion and Rapid Regeneration of Foxp3\(^+\) Regulatory T Cells Following Anti-CD25 Treatment in Malaria-Infected Mice
Kevin N. Couper, Daniel G. Blount, J. Brian de Souza, Isabelle Suffia, Yasmine Belkaid, and Eleanor M. Riley

4147 The Blood Contains Multiple Distinct Progenitor Populations with Clonogenic B and T Lineage Potential
Oliver Umland, William N. Mwangi, Bradley M. Anderson, Juliette C. Walker, and Howard T. Petrie

4153 Gadd45\(\alpha\) Regulates p38-Dependent Dendritic Cell Cytokine Production and Th1 Differentiation
Ludmila Jirmanova, Dragana Janković, Albert J. Fornace, Jr., and Jonathan D. Ashwell

4159 Minor Antigen H60-Mediated Aplastic Anemia Is Ameliorated by Immunosuppression and the Infusion of Regulatory T Cells
Jichun Chen, Felicia M. Ellison, Michael A. Eckhaus, Aleah L. Smith, Keyvan Keyvanfar, Rodrigo T. Calado, and Neal S. Young

4169 Delivery of Antigen to CD40 Induces Protective Immune Responses against Tumors
Karoline W. Schjetne, Agnete B. Fredriksen, and Bjarne Bogen

4177 Fc\(\varepsilon\)RI Aggregation Promotes Survival of Connective Tissue-Like Mast Cells but Not Mucosal-Like Mast Cells
Maria Ekoff, Andreas Strasser, and Gunnar Nilsson

4184 Human Dendritic Cells Acquire a Semimature Phenotype and Lymph Node Homing Potential through Interaction with CD4\(^+\)CD25\(^+\) Regulatory T Cells
Jagadeesh Bayry, Frédéric Triebel, Srinivas Kaveri, and David F. Tough

4194 Cytokine-Mediated Disruption of Lymphocyte Trafficking, Hemopoiesis, and Induction of Lymphopenia, Anemia, and Thrombocytopenia in Anti-CD137-Treated Mice
Liguo Niu, Simona Strabotin, Becker Heuw, Benyue Zhang, Yuanyuan Zhang, David Archer, Trent Spencer, Direk Dillehay, Byoung Kwon, Lieping Chen, Anthony T. Vella, and Robert S. Mittler
Non-Cell Autonomous Expression of TNF-α-Converting Enzyme ADAM17 Is Required for Normal Lymphocyte Development
Nianyu Li, Kelli Boyd, Peter J. Dempsey, and Dario A. A. Vignali

Regulation of Carcinogenesis by IL-5 and CCL11: A Potential Role for Eosinophils in Tumor Immune Surveillance
Ljubov Simson, Julia I. Ellyard, Lindsay A. Dent, Klaus I. Matthei, Marc E. Rosenberg, Paul S. Foster, Mark J. Smyth, and Christopher R. Parish

Mouse TCR\(\alpha\beta^+\)CD8αα Intraepithelial Lymphocytes Express Genes That Down-Regulate Their Antigen Reactivity and Suppress Immune Responses
Timothy L. Denning, Steve Granger, Daniel Mcuida, Ryan Graddy, Georges Leclercq, Weigu Zhang, Karen Honey, Jeffrey P. Rasmussen, Hilde Cheroutré, Alexander Y. Rudensky, and Mitchell Kronenberg

Activation of Adenosine 2A Receptors Attenuates Allograft Rejection and Alloantigen Recognition
Charles P. Sevigny, Li Li, Alaa S. Awad, Liping Huang, Marcia McDuffie, Joel Linden, Peter I. Lobo, and Mark D. Okusa

Paired Ig-Like Receptors Bind to Bacteria and Shape TLR-Mediated Cytokine Production
Masafumi Nakayama, David M. Underhill, Timothy W. Petersen, Bin Li, Toshio Kitamura, Toshiyuki Takai, and Alan Aderem

Suppression of Memory CD8 T Cell Generation and Function by Tryptophan Catabolism
Zhiwei Liu, Heway Dai, Ni Wan, Tao Wang, Suzanne Bertera, Massimo Trucco, and Zhenhua Dai

Genetic Deletion of Placenta Growth Factor in Mice Alters Uterine NK Cells
Chandrakant Tayade, David Hilchie, Hong He, Yuan Fang, Lieve Moons, Peter Carmeliet, Robert A. Foster, and B. Anne Croy

Limited Peripheral T Cell Anergy Predisposes to Retinal Autoimmunity

TGF-β Suppresses IFN-γ-STAT1-Dependent Gene Transcription by Enhancing STAT1-PIAS1 Interactions in Epithelia but Not Monocytes/Macrophages
Colin Reardon and Derek M. McKay

Activation of Enteroendocrine Cells via TLRs Induces Hormone, Chemokine, and Defensin Secretion
Marco Palazzo, Andrea Bahlari, Anna Rosini, Silvia Selleri, Claudia Calcaterra, Silvia Gariboldi, Laura Zanobbio, Francesca Arnaiboldi, Yuri F. Shiroti, Graziano Serra, and Cristiano Rumio

Distinct Cytokine-Driven Responses of Activated Blood γδ T Cells: Insights into Unconventional T Cell Pleiotropy
David Vermijlen, Peter Ellis, Cordelia Langford, Anne Klein, Rosel Engel, Katharina Willmann, Hassan Jomaa, Adrian C. Hayday, and Matthias Eberl

Enhanced NFATc1 Nuclear Occupancy Causes T Cell Activation Independent of CD28 Costimulation
Minggui Pan, Monte M. Winslow, Lei Chen, Ann Kuo, Dean Felder, and Gerald R. Crabtree

Analysis of 6912 Unselected Somatic Hypermutations in Human VDJ Rearrangements Reveals Lack of Strand Specificity and Correlation between Phase II Substitution Rates and Distance to the Nearest 3′ Activation-Induced Cytidine Deaminase Target
Line Ohm-Laursen and Torben Barington

CCL23 Expression Is Induced by IL-4 in a STAT6-Dependent Fashion
Hermann Novak, Anke Müller, Nathalie Harrer, Claudia Günther, Jose M. Carballido, and Maximilian Wiotschläger

Human TIM-1 Associates with the TCR Complex and Up-Regulates T Cell Activation Signals
Lauri L. Binne, Martin L. Scott, and Paul D. Rennert
Extracellular Isoforms of CD6 Generated by Alternative Splicing Regulate Targeting of CD6 to the Immunological Synapse
Mónica A. A. Castro, Marta I. Oliveira, Raquel J. Nunes, Stéphanie Fabre, Rita Barbosa, António Peixoto, Marion H. Brown, Jane R. Parnes, Georges Bismuth, Alexandra Moreira, Benedita Rocha, and Alexandre M. Carmo

Peroxisome Proliferator-Activated Receptor-α Activation Inhibits Langerhans Cell Function
Sandrine Dubrac, Patrizia Stoitzner, Daniela Pirkebner, Andreas Elentner, Kristina Schoonjans, Johan Auwerx, Sem Saeland, Paul Hengster, Peter Fritsch, Nikolaus Romani, and Matthias Schmuth

Bcl10 Controls TCR- and FcγR-Induced Actin Polymerization
Daniel Rueda, Olivier Gaidé, Liza Ho, Eloidie Lewkowicz, Florence Nizergang, Stephan Hailfinger, Fabien Rebay, Montserrat Guazzardi, Béatrice Conne, Marcus Thelen, Jérôme Delon, Uta Ferch, Tak W. Mak, Jürgen Ruland, Jürg Schwaller, and Margot Thome

Identification of the Zebrafish IFN Receptor: Implications for the Origin of the Vertebrate IFN System
Jean-Pierre Levraud, Pierre Boudinot, Ingrid Colin, Abdouenour Benmansour, Nadine Peyrieras, Philippe Herbonnel, and Georges Lutfalla

The B6s Locus of BXSB Mice Is Sufficient for High-Level Expression of gp70 and the Production of gp70 Immune Complexes

Human KIR2DL5 Is an Inhibitory Receptor Expressed on the Surface of NK and T Lymphocyte Subsets
Ernesto Estefanía, Raquel Flores, Natalia Gómez-Lozano, Helena Aguilar, Miguel López-Bolet, and Carlos Viches

NK Dendritic Cells Are Innate Immune Responders to Listeria monocytogenes Infection
George Plitas, Umer I. Chaudhry, T. Peter Kingham, Jesse R. Raab, and Ronald P. DeMatteo

Peptide Mimics of the Group B Meningococcal Capsule Induce Bactericidal and Protective Antibodies after Immunization
Carla Lo Passo, Angela Romeo, Ida Pernice, Paolo Donato, Angelina Midiri, Giuseppe Mancuso, Milena Arigò, Carmelo Biondo, Roberta Galbo, Salvatore Papaergi, Franco Felici, Giuseppe Teti, and Concetta Beninati

The Role of Antibody Polyspecificity and Lipid Reactivity in Binding of Broadly Neutralizing Anti-HIV-1 Envelope Human Monoclonal Antibodies 2F5 and 4E10 to Glycoprotein 41 Membrane Proximal Envelope Epitopes

TLR Ligand-Dependent Activation of Naive CD4 T Cells by Plasmacytoid Dendritic Cells Is Impaired in Hepatitis C Virus Infection
Nicole L. Yonkers, Benigno Rodriguez, Kimberly A. Milkovich, Robert Aaadu, Michael M. Lederman, Peter S. Heeger, and Donald D. Anthony

Francisella tularensis Induces IL-23 Production in Human Monocytes

T Cell Recognition Patterns of Immunodominant Cytomegalovirus Antigens in Primary and Persistent Infection
Naeem Khan, Donna Best, Rachel Bruton, Laxman Nayak, Alan B. Rickinson, and Paul A. H. Moss

Resident Vδ1+ γδ T Cells Control Early Infiltration of Neutrophils after Escherichia coli Infection via IL-17 Production
Kensuke Shibata, Hisakata Yamada, Hiromitsu Hara, Kenji Kishihara, and Yasunobu Yoshikai
The Human Cytomegalovirus MHC Class I Homolog UL18 Inhibits LIR-1+ NK Cells


Tyk2 Signaling in Host Environment Plays an Important Role in Contraction of Antigen-Specific CD8+ T Cells following a Microbial Infection

Wei Li, Hisakata Yamada, Toshihiko Yajima, Ryusuke Nakagawa, Kazuya Shimoda, Keiichi Nakayama, and Yasunobu Yoshikai

IL-12 and Type-I IFN Synergize for IFN-γ Production by CD4 T Cells, Whereas Neither Are Required for IFN-γ Production by CD8 T Cells after Listeria monocytogenes Infection

Sing Sing Way, Colin Havenar-Daughton, Ganesh A. Kolumann, Nural N. Orgun, and Kaja Murals-Krishna

Collagen Distribution and Expression of Collagen-Binding α1β1 (VLA-1) and α2β1 (VLA-2) Integrins on CD4 and CD8 T Cells during Influenza Infection


Evidence for Evolving Toll-IL-1 Receptor-Containing Adaptor Molecule Function in Vertebrates

Con Sullivan, John H. Postlethwait, Christopher R. Lage, Paul J. Millard, and Carol H. Kim

MyD88-Dependent Signals Are Essential for the Host Immune Response in Experimental Brain Abscess

Tammy Kielian, Nirmal K. Phulwani, Nilufer Esen, Mohsin Md. Syed, Anessa C. Haney, Kelly McCastlain, and Jennifer Johnson

Active Suppression of the Pulmonary Immune Response by Francisella tularensis Schu4

Catharine M. Bosio, Helle Bielefeldt-Ohmann, and John T. Beisie

Recognition of Double-Stranded RNA by TLR3 Induces Severe Small Intestinal Injury in Mice

Rongbin Zhou, Haiming Wei, Rui Sun, and Zhiogang Tian

Infection with a Helminth Parasite Prevents Experimental Colitis via a Macrophage-Mediated Mechanism


Allele- and Locus-Specific Recognition of Class I MHC Molecules by the Immunomodulatory E3-19K Protein from Adenovirus

Hong Liu, Jie Fu, and Marlene Bouvier

IFN Mimetic as a Therapeutic for Lethal Vaccinia Virus Infection: Possible Effects on Innate and Adaptive Immune Responses

Chulbul M. Ahmed, James P. Martin, and Howard M. Johnson

INFLAMMATION

Histamine Release from the Basophils of Control and Asthmatic Subjects and a Comparison of Gene Expression between “Releaser” and “Nonreleaser” Basophils

Lama A. Youssef, Mark Schuyler, Laura Gilmartin, Gavin Pickett, Julie D. J. Bard, Christy A. Tarleton, Terrasa Archibeque, Clifford Qualls, Bridget S. Wilson, and Janet M. Oliver

Annexin-1 and Peptide Derivatives Are Released by Apoptotic Cells and Stimulate Phagocytosis of Apoptotic Neutrophils by Macrophages

Michael Scannell, Michelle B. Flanagan, Andreas deStefani, Kieran J. Wynne, Gerard Cagney, Catherine Godson, and Paola Maderna

Loss of SLP-76 Expression within Myeloid Cells Confers Resistance to Neutrophil-Mediated Tissue Damage while Maintaining Effective Bacterial Killing

Regina A. Clemens, Laurie E. Lenox, Taku Kambayashi, Natalie Bezman, Jonathan S. Malizman, Kim E. Nichols, and Gary A. Koretzky
Oncostatin M Secreted by Skin Infiltrating T Lymphocytes Is a Potent Keratinocyte Activator Involved in Skin Inflammation

The Chemokine Binding Protein M3 Prevents Diabetes Induced by Multiple Low Doses of Streptozotocin
Andrea P. Martin, Jennifer M. Alexander-Brett, Claudia Canasto-Chibuque, Alexandre Garin, Jonathan S. Bromberg, Daved H. Fremont, and Sergio A. Lira

TGF-β1-Mediated Control of Central Nervous System Inflammation and Autoimmunity through the Inhibitory Receptor CD26
Vera Preller, Annegret Gerber, Sabine Wrenger, Mauro Togni, Didier Marguet, Janine Tadje, Uwe Lendeckel, Christoph Röcken, Jürgen Faust, Klaus Neubert, Burkhard Schraven, Roland Martin, Siegfried Ansorge, Stefan Brocke, and Dirk Reinhold

IL-1β Causes an Increase in Intestinal Epithelial Tight Junction Permeability
Rana M. Al-Sadi and Thomas Y. Ma

CLINICAL IMMUNOLOGY

T Cell Activation by Antibody-Like Immunoreceptors: The Position of the Binding Epitope within the Target Molecule Determines the Efficiency of Activation of Redirected T Cells
Andreas A. Hombach, Verena Schildgen, Claudia Heuser, Ricarda Finnern, David E. Gilham, and Hinrich Abken

Grass Pollen Immunotherapy Induces an Allergen-Specific IgA2 Antibody Response Associated with Mucosal TGF-β Expression

Augmentation of NZB Autoimmune Phenotypes by the Sle1c Murine Lupus Susceptibility Interval
Brendan M. Giles, Svetlana N. Tchepeleva, Julie J. Kachinski, Katherine Ruff, Byron P. Croker, Laurence Morel, and Susan A. Boackle

Intratumoral Injection of α-gal Glycolipids Induces Xenograft-Like Destruction and Conversion of Lesions into Endogenous Vaccines
Uri Galili, Kim Wigglesworth, and Usama M. Abdel-Motal

Prothymosin α Lacking the Nuclear Localization Signal as an Effective Gene Therapeutic Strategy in Collagen-Induced Arthritis
Ai-Li Shiau, Shih-Yao Chen, Meng-Ya Chang, Chih-Hau Su, Shih-Ye Chung, Yi-Te Yo, Chrong-Reen Wang, and Chao-Liang Wu

Author Index

AAI Membership Application

AAI Trainee Membership Application