This information is current as of April 16, 2017.

177 (4)

J Immunol 2006; 177:2033-2729; ;
http://www.jimmunol.org/content/177/4

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
2033  **IN THIS ISSUE**

**LETTERS TO THE EDITOR**

2035  Comment on “CCR7 Is Critically Important for Migration of Dendritic Cells in Intestinal Lamina Propria to Mesenteric Lymph Nodes”
David A. Hume

2035  Response to Comment on “CCR7 Is Critically Important for Migration of Dendritic Cells in Intestinal Lamina Propria to Mesenteric Lymph Nodes”
Myoung Ho Jang and Masayuki Miyasaka

2036  Comment on “Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4+CD25+ T Regulatory Cells”
Leigh A. Stephens and Stephen M. Anderton

2036  Comment on “Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4+CD25+ T Regulatory Cells”
Santiago Zelenay and Jocelyne Demengeot

2037  Response to Comment on “Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4+CD25+ T Regulatory Cells”
Adam P. Kohm and Stephen D. Miller

2038  Comment on “Duration and Intensity of NF-κB Activity Determine the Severity of Endotoxin-Induced Acute Lung Injury”
Michael Eisenhubt

**BRIEF REVIEWS**

2039  CCR5 in T Cell-Mediated Liver Diseases: What’s Going On?
Maureen N. Ajuebor, Jillian A. Carey, and Mark G. Swain

**CUTTING EDGE**

2047  Cutting Edge: Dexamethasone Negatively Regulates Syk in Mast Cells by Up-Regulating Src-Like Adaptor Protein
Takaaki Hiragun, Ze Peng, and Michael A. Beaven

2051 Cutting Edge: Inhibition of TLR and FcR Responses in Macrophages by Triggering Receptor Expressed on Myeloid Cells (TREM)-2 and DAP12
Jessica A. Hamerman, Jessica R. Jarjoura, Mary Beth Humphrey, Mary C. Nakamura, William E. Seaman, and Lewis L. Lanier

2056 Cutting Edge: Epstein-Barr Virus Transactivates the HERV-K18 Superantigen by Docking to the Human Complement Receptor 2 (CD21) on Primary B Cells
Francis C. Hisao, Miao Lin, Albert Tai, Gang Chen, and Brigitte T. Huber

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

2061 1-Methyl-Tryptophan Can Interfere with TLR Signaling in Dendritic Cells Independently of IDO Activity
Sophie Agaugué, Laure Perrin-Cocon, Frédéric Coutant, Patrice André, and Vincent Lotteau

2072 Characterization of (4-Hydroxy-3-Nitrophenyl)Acetyl (NP)-Specific Germinal Center B Cells and Antigen-Binding B220⁺ Cells after Primary NP Challenge in Mice
Kristy L. Wolniak, Randolph J. Noelle, and Thomas J. Waldschmidt

2080 Mesenchymal Stem Cells Inhibit Generation and Function of Both CD34⁺-Derived and Monocyte-Derived Dendritic Cells
Alma J. Nauta, Alwine B. Kruisselbrink, Ellie Lurvink, Roel Willemze, and Willem E. Fibbe

2088 TLR7 Ligands Induce Higher IFN-α Production in Females
Beate Berghöfer, Tue Frommer, Gabriela Haley, Ludger Fink, Gregor Bein, and Holger Hackstein

2097 Endogenous Myelin Basic Protein Is Presented in the Periphery by Both Dendritic Cells and Resting B Cells with Different Functional Consequences
Audrey Seamon, Antoine Perchellet, and Joan Goverman

2107 RUNX3 Negatively Regulates CD36 Expression in Myeloid Cell Lines
Amaya Puig-Kröger, Angeles Dominguez-Soto, Laura Martinez-Muñoz, Diego Servano-Gómez, María Lopez-Bravo, Elena Sierra-Filardi, Elena Fernández-Ruiz, Natividad Ruiz-Velasco, Carlos Aravín, Yoram Groner, Narendra Tandon, Angel L. Corbi, and Miguel A. Vega

2115 Modulation of Monocyte Function by Activated Protein C, a Natural Anticoagulant
Daniel A. Stephenson, Lisa J. Toltl, Suzanne Beaudin, and Patricia C. Liaw

2123 The Role of Structurally Conserved Class I MHC in Tumor Rejection: Contribution of the Q8 Locus
Eugene Y. Chiang and Iwona Stroynowski

2131 Type 2 Cytotoxic T Lymphocytes Modulate the Activity of Dendritic Cells Toward Type 2 Immune Responses
Giandomenica Iezzi, Andrea Boni, Elena Degli'Innocenti, Matteo Grioni, Maria T. S. Bertilaccio, and Matteo Bellone

2138 Screening and Identification of Severe Acute Respiratory Syndrome-Associated Coronavirus-Specific CTL Epitopes
Minghai Zhou, Dongping Xu, Xiaojuan Li, Hongtao Li, Ming Shan, Jiaren Tang, Min Wang, Fu-Sheng Wang, Xiaodong Zhu, Hua Tao, Wei He, Po Tien, and George F. Gao

2146 Porcine UL16-Binding Protein 1 Expressed on the Surface of Endothelial Cells Triggers Human NK Cytotoxicity through NKG2D
Benjamin G. Lilienfeld, Carmen Garcia-Borges, Mark D. Crew, and Jörg D. Seebach

2153 Structurally Distinct Ligand-Binding or Ligand-Independent Notch1 Mutants Are Leukemogenic but Affect Thymocyte Development, Apoptosis, and Metastasis Differently
Elena Priceputu, Isabelle Boudallag, YaoPing Zhang, XiuJie Li, Pavel Chrobak, Zaher S. Hanna, Johanne Poudrier, Denis G. Kay, and Paul Jolicoeur

2167 Regulatory and Effector T Cell Activation Levels Are Prime Determinants of In Vivo Immune Regulation
Fabienne Billiard, Elena Litvinova, David Saadoun, Fatihia Djefft, David Katzmann, José L. Cohen, Gilles Marodon, and Benoît L. Salomon
Induction of Allospecific Tolerance by Immature Dendritic Cells Genetically Modified to Express Soluble TNF Receptor
Quanxing Wang, Yushan Liu, Jianli Wang, Guoshan Ding, Weiping Zhang, Guoyou Chen, Minghui Zhang, Shuwen Zheng, and Xuetao Cao

Defective Activation of Protein Kinase C and Ras-ERK Pathways Limits IL-2 Production and Proliferation by CD4+CD25+ Regulatory T Cells
Somia P. Hickman, Jaeaeok Yang, Rajan M. Thomas, Andrew D. Wells, and Laurence A. Turka

Spi-C Has Opposing Effects to PU.1 on Gene Expression in Progenitor B Cells
Brock L. Schweitzer, Kelly J. Huang, Meghna B. Kamath, Alexander V. Emelyanov, Barbara K. Birshtein, and Rodney P. DeKoter

Intradermal Delivery of Adenoviral Type-35 Vectors Leads to High Efficiency Transduction of Mature, CD8+ T Cell-Stimulating Skin-Emigrated Dendritic Cells
Tanja D. de Grujil, Olga J. A. E. Ophorst, Jaap Goudsmit, Sandra Verhaagh, Sinéad M. Lougheed, Katarina Radosevic, Menzo J. E. Havenga, and Rik J. Scheper

Constitutive Activation of STAT5 Supersedes the Requirement for Cytokine and TCR Engagement of CD4+ T Cells in Steady-State Homeostasis
Devon K. Taylor, Patrick T. Walsh, David F. LaRosa, Jidong Zhang, Matthew A. Burchill, Michael A. Farrar, and Laurence A. Turka

Salmonella typhimurium Infection in Nonobese Diabetic Mice Generates Immunomodulatory Dendritic Cells Able to Prevent Type 1 Diabetes
Tim Raine, Paola Zaccone, Pietro Mastroeni, and Anne Cooke

Impaired Intracellular Calcium Mobilization and NFATc1 Availability in Tolerant Anti-Insulin B Cells
Carlos A. Acededo-Suárez, Dawn M. Kilkenny, Martha B. Reich, and James W. Thomas

Pre-B Cell Receptor Assesses the Quality of IgH Chains and Tunes the Pre-B Cell Repertoire by Delivering Differential Signals
Yohei Kawano, Soichiro Yoshikawa, Yoshiyuki Minegishi, and Hajime Karasuyama

FcRγ Presence in TCR Complex of Double-Negative T Cells Is Critical for Their Regulatory Function
Christopher W. Thomson, Wendy A. Tefi, Wenbao Chen, Boris P.-L. Lee, Joaquin Madrenas, and Li Zhang

Sialoadhesin Promotes the Inflammatory Response in Experimental Autoimmune Uveoretinitis
Hui-Rong Jiang, Lenias Huenda, Kimmo Makinen, Cornelia Otteke, Paul R. Crocker, and John V. Forrester

Dendritic Cell-Lysosomal-Associated Membrane Protein (LAMP) and LAMP-1-HIV-1 Gag Chimeras Have Distinct Cellular Trafficking Pathways and Prime T and B Cell Responses to a Diverse Repertoire of Epitopes
Luciana B. Arruda, Del Sim, Priya R. Chikhlikar, Milton Maciel, Jr., Kenji Akasaki, J. Thomas August, and Ernesto T. A. Marques

Preferential Induction of CD4+ T Cell Responses through In Vivo Targeting of Antigen to Dendritic Cell-Associated C-Type Lectin-1
Robert W. Carter, Clare Thompson, Delyth M. Reid, Simon Y. C. Wong, and David F. Tough

The Th2 Lymphoproliferation Developing in Lat^{Y136F} Mutant Mice Triggers Polyclonal B Cell Activation and Systemic Autoimmunity
Céline Genton, Ying Wang, Shozo Izui, Bernard Malissen, Georges Delos, Gilbert J. Fournié, Marie Malissen, and Hans Acha-Orbea

Constitutively Active β-Catenin Promotes Expansion of Multipotent Hematopoietic Progenitors in Culture
Yoshitiro Baba, Takaumi Yokota, Hergen Spits, Karla P. Garrett, Shin-Ichi Hayashi, and Paul W. Kincade

TRAIL-Mediated Apoptosis in HIV-1-Infected Macrophages Is Dependent on the Inhibition of Akt-1 Phosphorylation
Yunlong Huang, Nathan Erdmann, Hui Peng, Shelley Herek, John S. Davis, Xu Luo, Tsuneya Ikezu, and Jiulin Zheng
Opposite Fate of Endocytosed CCR7 and Its Ligands: Recycling versus Degradation  
Carolina Otero, Marcus Groettrup, and Daniel F. Legler

Antigens Chemically Coupled to the Surface of Liposomes Are Cross-Presented to CD8+ T Cells and Induce Potent Antitumor Immunity  
Maiho Taseiichi, Hideaki Ishida, Kiichi Kajino, Kazumasa Ogasawara, Yuriko Tanaka, Michiyuki Kasai, Masahito Mori, Mitsuhiro Nishida, Hiroyuki Yamamura, Junichiro Mizuguchi, and Tetsuya Uchida

TGF-β-Mediated Suppression by CD4+CD25+ T Cells Is Facilitated by CTLA-4 Signaling  
Takato Oda, LiLi Xu, Howard L. Weiner, Atsushi Kitani, and Warren Strober

Homeostatic Lymphoid Chemokines Synergize with Adhesion Ligands to Trigger T and B Lymphocyte Chemokinesis  
Agneszka N. Stachowiak, Yana Wang, Yen-Chen Huang, and Darrell J. Irvine

Vav1 Controls DAP10-Mediated Natural Cytotoxicity by Regulating Actin and Microtubule Dynamics  
Daniel B. Graham, Marina Celli, Emanuele Giurisato, Keiko Fujikawa, Ana V. Miletic, Tracie Kloeppel, Karry Brim, Toshiyuki Takai, Andrey S. Shaw, Marco Colonna, and Wojciech Swat

ICOS-Induced B7h Shedding on B Cells Is Inhibited by TLR7/8 and TLR9  
Eric C. Logue, Sonia Bakkour, Michael M. Murphy, Hector Nolla, and William C. Shab

B7RP-1-ICOS Interactions Are Required for Optimal Infection-Induced Expansion of CD4+ Th1 and Th2 Responses  
Emma H. Wilson, Colby Zaph, Markus Mohrs, Andy Welcher, Jerry Siu, David Artis, and Christopher A. Hunter

Distinct Responses of Lung and Spleen Dendritic Cells to the TLR9 Agonist CpG Oligodeoxynucleotide  
Li Chen, Meenakshi Arora, Manohar Yarlagadda, Timothy B. Oriss, Nandini Krishnamoorothy, Anuradha Ray, and Prabir Ray

Activation of NFAT Signal In Vivo Leads to Osteopenia Associated with Increased Osteoclastogenesis and Bone-Resorbing Activity  
Fumiyo Ikeda, Riko Nishimura, Takuma Matsushita, Kenji Hata, Sakamuru V. Reddy, and Toshiyuki Yoneda

Cyclooxygenase-2 Inhibitor Enhances the Efficacy of a Breast Cancer Vaccine: Role of IDO  
Garji D. Bau, Teresa L. Tindel, Judy M. Bradley, Tony Tu, Christine L. Hattrup, Barbara A. Pockaj, and Pinku Mukherjee

B Cells Expressing a Natural Polyreactive Autoantibody Have a Distinct Phenotype and Are Overrepresented in Immunoglobulin Heavy Chain Transgenic Mice  
Qi Tian, Michael Beardon, Yang Xu, Ju Li, David C. Parker, Nina Casanova, Anthony C. Bakke, and Ching Chen

Structure-Activity Profiles of Antibody-Derived TNF Fusion Proteins  
Stefan Bauer, Nicole Adrian, Elaine Fischer, Saasha Kleber, Frank Steuner, Andreas Wadle, Natalie Fadde, Andy Zoeller, Rita Bernhardt, Alexander Knuth, Lloyd J. Old, and Christoph Renner

Molecular and Structural Immunology

Activation of Murine CD4+ and CD8+ T Lymphocytes Leads to Dramatic Remodeling of N-Linked Glycans  
Elena M. Comelli, Mark Sutton-Smith, Qi Yan, Margarida Amado, Maria Panico, Tim Gilmarthin, Thomas Whisenant, Caroline M. Lanigan, Steven R. Head, David Goldberg, Howard R. Morris, Anne Dell, and James C. Paulson

Identification of PP1α as a Caspase-9 Regulator in IL-2 Deprivation-Induced Apoptosis  
Frédéric Dessauge, Xavier Gayla, Juan Pablo Albar, Aarne Fleischer, Ata Ghadiri, Marianne Dubame, and Angelita Rebollo

Diverse Immunoglobulin Light Chain Organizations in Fish Retain Potential to Revise B Cell Receptor Specificities  
Ellen Hsu and Michael F. Criscitiello
Conserved Functions of Ikaros in Vertebrate Lymphocyte Development: Genetic Evidence for Distinct Larval and Adult Phases of T Cell Development and Two Lineages of B Cells in Zebrafish

Michael Schorpp, Mike Bialecki, Dagmar Diekhoff, Brigitte Walderich, Jörg Odenbach, Hans-Martin Maischein, Agustin G. Zapata, Tübingen 2000 Screen Consortium, Freiburg Screening Group, and Thomas Boehm

TCR-α CDR3 Loop Audition Regulates Positive Selection

Cristina Ferreira, Anna Fornanusi, Maggie Millrain, Istvan Bartok, Philippe Guillaume, Rosemary Lees, Elizabeth Simpson, H. Robson MacDonald, and Julian Dyson

Autoantibodies from Synovial Lesions in Chronic, Antibiotic Treatment-Resistant Lyme Arthritis Bind Cytokeratin-10

Srimoyee Ghosh, Robert Seward, Catherine E. Costello, B. David Solliar, and Brigitte T. Huber

E2A Promotes the Survival of Precursor and Mature B Lymphocytes

Adam S. Lazorchak, Jason Wojciechowski, Meifang Dai, and Yuan Zhuang

Identification and Characterization of a FcR Homolog in an Ectothermic Vertebrate, the Channel Catfish (Ictalurus punctatus)

James L. Stafford, Melanie Wilson, Deepak Nayak, Sylvie M. Quiniou, L. W. Clem, Norman W. Miller, and Eva Bengtén

CD8+ T Lymphocyte-Mediated Loss of Marginal Metallophilic Macrophages following Infection with Plasmodium chabaudi chabaudi AS

Lynnette Beattie, Christian R. Enguedra, Michelle Wykes, and Michael F. Good

Nuclear Accumulation of cRel following C-Terminal Phosphorylation by TBK1/IKKε

Jennifer Harris, Stéphanie Olière, Sonia Sharma, Qiang Sun, Rongtuan Lin, John Hiscott, and Nathalie Grandvaux

Local CD11c+ MHC Class II− Precursors Generate Lung Dendritic Cells during Respiratory Viral Infection, but Are Depleted in the Process

Hongwei Wang, Nina Peters, Vasile Laz-Stanca, Niga Nauroyal, Sebastian L. Johnston, and Jürgen Schwarze

CD46 (Membrane Cofactor Protein) Acts as a Human Epithelial Cell Receptor for Internalization of Opsonized Uropathogenic Escherichia coli

Ke Li, Maria Jose Feito, Steven H. Sacks, and Neil S. Sheerin

Subunit Recombinant Vaccine Protects against Monkeypox

Jean-Michel Heraud, Yvette Edghill-Smith, Victor Ayala, Irene Kalisz, Janie Parrino, Vaniambadi S. Kalpanaraman, Jody Manischewitz, Lisa R. King, Anna Hryniewicz, Christopher J. Trindade, Meredith Hasset, Wen-Po Tsai, David Venzon, Ayesugul Naika, Monica Vaccari, Peter Silvera, Mike Bray, Barney S. Graham, Hana Golding, Jay W. Hooper, and Genoveffa Franchini

IL-10 Is Required for Optimal CD8 T Cell Memory following Listeria monocytogenes Infection

Kathryn E. Foulds, Masashi J. Rotte, and Robert A. Seder

NK Cells Use NKG2D to Recognize a Mouse Renal Cancer (Renca), yet Require Intercellular Adhesion Molecule-1 Expression on the Tumor Cells for Optimal Perforin-Dependent Effector Function


Toxoplasma gondii Genotype Determines MyD88-Dependent Signaling in Infected Macrophages

Lesun Kim, Barbara A. Butcher, Chi-Jen Lee, Satoshi Ukami, Shizuo Akira, and Eric Y. Denkers

Heme Oxygenase-1 Mediates the Anti-Inflammatory Effects of Acute Alcohol on IL-10 Induction Involving p38 MAPK Activation in Monocytes

Yvonne Drechsler, Angela Dolganicu, Ocana Norkina, Laszlo Romics, Weibo Li, Karen Kody, Fritz H. Bach, Pranati Mandrekar, and Gyorgyi Szabo

Inflammation-Responsive Transcription Factor SAF-1 Activity Is Linked to the Development of Amyloid A Amyloidosis

Alpana Ray, Arvind Shokya, Deepak Kumar, Merrill D. Benson, and Bimal K. Ray
2610  TWEAK Is a Novel Arthritogenic Mediator  

2621  Prostaglandin D₂ Plays an Essential Role in Chronic Allergic Inflammation of the Skin via CRTH2 Receptor  
Takahiro Satoh, Rie Moroi, Kosuke Aritake, Yoshihiro Urade, Yasumasa Kanai, Koji Sumi, Hiroo Yokozeki, Hiroaki Hirai, Kinya Nagata, Toshifumi Hara, Masanori Utsumi, Katsuiki Hirokawa, Kazuo Sugamura, Kiyoaki Nishioka, and Masataka Nakamura

2630  Lipoic Acid Affects Cellular Migration into the Central Nervous System and Stabilizes Blood-Brain Barrier Integrity  

2638  Human Mast Cell-Derived Gelatinase B (Matrix Metalloproteinase-9) Is Regulated by Inflammatory Cytokines: Role in Cell Migration  
Nick Di Girolamo, Ikuko Indoh, Nicole Jackson, Denis Wakefield, H. Patrick McNeil, Weixing Yan, Carolyn Gezzy, Jonathan P. Arm, and Nicosedemus Tedla

2651  CCL2 Regulates Angiogenesis via Activation of Ets-1 Transcription Factor  
Svetlana M. Stamatovic, Richard F. Keep, Marija Musterica-Stojkovic, and Anuska V. Andjelkovic

CLINICAL IMMUNOLOGY

2662  Papillomavirus-Like Particles Are an Effective Platform for Amyloid-β Immunization in Rabbits and Transgenic Mice  
Eduardo Zamora, Alessandra Handisurya, Saeed Shafti-Keramat, David Borchelt, Gay Rudow, Katherine Conant, Christopher Cox, Juan C. Troncoso, and Reisarad Kühnauer

2671  Paucity of Clinical Disease despite Serological Autoimmunity and Kidney Pathology in Lupus-Prone New Zealand Mixed 2328 Mice Deficient in BAFF  
Chaim O. Jacob, Luminanta Pricep, Chaim Puttermarian, Michael N. Koss, Yi Liu, Maria Kollaros, Sarah A. Bixler, Christine M. Ambrose, Martin L. Scott, and William Stohl

2681  Calcineurin Is Expressed and Plays a Critical Role in Inflammatory Arthritis  
Seung-Ah Yoo, Bo-Hyoung Park, Gyeong-Sin Park, Hae-Soon Koh, Mi-Sook Lee, Sung Ho Ryu, Keiji Miyazawa, Sung-Hwan Park, Chul-Soo Cho, and Wan-Uk Kim

2691  Monocyte-Derived Human Macrophages Mediate Anergy in Allogeneic T Cells and Induce Regulatory T Cells  
Sabine Hoves, Stefan W. Krause, Christian Schütz, Dagnor Hablritter, Jürgen Schölmerich, Hans Herfarth, and Martin Fleck

2699  Increased Levels of Soluble CD40L in African Tick Bite Fever: Possible Involvement of TLRs in the Pathogenic Interaction between Rickettsia africae, Endothelial Cells, and Platelets  
Jan K. Damås, Mogens Jeunes, Thor Ueland, Kari Otterdal, Arne Yndestad, Steig S. Frøland, Jean-Marc Rolain, Bjørn Myreun, Didier Raoult, and Pål Aukrust

2707  The Antineoplastic Agent Bryostatin-1 Differentially Regulates IFN-γ Receptor Subunits in Monocytic Cells: Transcriptional and Posttranscriptional Control of IFN-γR2  
Carmen S. Garcia, Rafael E. Cariol, James M. Mwatibo, Sidney Pestka, Huifen Li, and Igor Espinosa-Delgado

2717  Spontaneous CD4⁺ T Cell Responses against TRAG-3 in Patients with Melanoma and Breast Cancers  
Bratislav Janjic, Pedro Andrade, Xiao-Fei Wang, Julien Fourcade, Christine Almunia, Pavol Kušela, Adam Brusky, Samuel Jacobs, David Friedland, Ronald Stoller, Daniel Gillet, Ronald B. Herberman, John M. Kirkwood, Bernard Mailer, and Hassane M. Zarrour

2728  Corrections

2730  Author Index

2733  AAI Membership Application

2734  AAI Trainee Membership Application