This information is current as of May 1, 2017.

181 (2)

*J Immunol* 2008; 181:855-1582; ;
http://www.jimmunol.org/content/181/2

**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

LETTERS TO THE EDITOR

857 Comment on “Cutting Edge: Human CD4−CD8− Thymocytes Express FOXP3 in the Absence of a TCR”
Alessandra Battaglia, Amelia Evoli, Giovanni Scambia, and Andrea Fattorossi

858 Response to Comment on “Cutting Edge: Human CD4−CD8− Thymocytes Express FOXP3 in the Absence of a TCR”
Heli Taovinen, Elisa Kekäläinen, Laura H. Rossi, Juha Puntila, and T. Petteri Arstila

BRIEF REVIEWS

859 Genetic and Molecular Basis of Quantitative Trait Loci of Arthritis in Rat: Genes and Polymorphisms
Qing Xiong, Yan Jiao, Karen A. Hasty, John M. Stuart, Arnold Postlethwaite, Andrew H. Kang, and Weikuan Gu

CUTTING EDGE

865 Cutting Edge: Chromatin Remodeling as a Molecular Basis for the Enhanced Functionality of Memory CD8 T Cells
John K. Northrop, Andrew D. Wells, and Hao Shen

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

869 Impaired SLAM-SLAM Homotypic Interaction between Invariant NKT Cells and Dendritic Cells Affects Differentiation of IL-4/IL-10-Secreting NKT2 Cells in Nonobese Diabetic Mice
Denis V. Baev, Simone Caielli, Francesca Ronchi, Margherita Coccia, Federica Facciotti, Kim E. Nichols, and Marika Falcone

878 The Complement Inhibitor Low Molecular Weight Dextran Sulfate Prevents TLR4-Induced Phenotypic and Functional Maturation of Human Dendritic Cells
Rolf Spirig, Cees van Kooten, Carolina Obregon, Laurent Nicod, Mohamed Daha, and Robert Rieben

891 Cell Surface Expression of the Bovine Leukemia Virus-Binding Receptor on B and T Lymphocytes Is Induced by Receptor Engagement
Madakasira Lavanya, Sandrina Kinet, Amélie Montel-Hagen, Cédric Mongellaz, Jean-Luc Battini, Marc Sitbon, and Naomi Taylor
Oral or Nasal Antigen Induces Regulatory T Cells That Suppress Arthritis and Proliferation of Arthritogenic T Cells in Joint Draining Lymph Nodes
Femke Broere, Lotte Wieten, Elles I. Klein Koerkamp, Joel A. G. van Roon, Teun Guichelaar, Floris P. J. G. Lafeber, and Willem van Eden

Regulation of Thymic NKT Cell Development by the B7-CD28 Costimulatory Pathway
Joy A. Williams, Joanne M. Lumsdon, Xiang Yu, Lionel Feigenbaum, Jingjing Zhang, Seth M. Steinberg, and Richard J. Hodes

Cell Type-Specific Regulation of ITAM-Mediated NF-κB Activation by the Adaptors, CARMA1 and CARD9
Hiromitsu Hara, Chitose Ishihara, Arata Takeuchi, Liquan Xue, Stephan W. Morris, Josef M. Penninger, Hiroki Yoshida, and Takashi Saito

Induction of Tolerance to Cardiac Allografts Using Donor Splenocytes Engineered to Display on Their Surface an Exogenous Fas Ligand Protein
Esma S. Yolcu, Xiao Gu, Chantale Lacelle, Hong Zhao, Laura Bandura-Morgan, Nadir Askenasy, and Haval Shirwan

Histone Acetylation and Flagellin Are Essential for Legionella pneumophila-Induced Cytokine Expression
Bernd Schmeck, Janina Lorenz, Philippe Dje Nguesan, Bastian Opitz, Vincent van Laak, Janine Zahlden, Hortense Sleevogt, Martin Witzenrath, Antje Flieger, Norbert Suttrop, and Stefan Huppmann

Transfusion of IgG-Opsonized Foreign Red Blood Cells Mediates Reduction of Antigen-Specific B Cell Priming in a Murine Model
Davor Brinc, Hoang Le-Tien, Andrew R. Crow, Vinayakumar Siragam, John Freedman, and Alan H. Lazarus

IL-13 Production by Regulatory T Cells Protects against Experimental Autoimmune Encephalomyelitis Independently of Autoantigen
Javier Ochoa-Repa´raz, Agnieszka Rynda, Miguel A. Ascón, Xinghong Yang, Irina Kochetkova, Carol Riccardi, Gayle Callis, Theresa Trunkle, and David W. Pascual

Medroxyprogesterone Acetate Inhibits CD8+ T Cell Viral-Specific Effector Function and Induces Herpes Simplex Virus Type 1 Reactivation
Thomas L. Cherpes, James L. Busch, Brian S. Sheridan, Stephen A. K. Harvey, and Robert L. Hendricks

Deficient TACI Expression on B Lymphocytes of Newborn Mice Leads to Defective Ig Secretion in Response to BAFF or APRIL
Sunita Kanswal, Nora Katsenelson, Angamuthu Selvapandiyan, Richard J. Bram, and Mustafa Akkoyunlu

Increased Frequency of EBV-Specific Effector Memory CD8+ T Cells Correlates with Higher Viral Load in Rheumatoid Arthritis
Jan D. Lünenmann, Oliver Frey, Thorsten Eineder, Michael Baier, Susanne Roberts, Junji Sashihara, Rudolf Volkmer, Jeffrey I. Cohen, Gert Hein, Thomas Kamradt, and Christian Münn

CD40 Ligand Protects from TRAIL-Induced Apoptosis in Follicular Lymphomas through NF-κB Activation and Up-Regulation of c-FLIP and Bcl-xL
Marion Travert, Patricia Amo-Thomas, Céline Pagnoulle, Alexandre Morizot, Olivier Micheau, Gilbert Semana, Thierry Lamy, Thierry Fest, Karin Tarre, and Thierry Guillaudeux

Immune Opsonins Modulate BlyS/BAFF Release in a Receptor-Specific Fashion
Xinrui Li, Kaishong Su, Chuanji Ji, Alexander J. Salzai, Jianming Wu, Yan Zhang, Tong Zhou, Robert P. Kimberley, and Jeffrey C. Edberg

ICOS Costimulation Expands Th2 Immunity by Augmenting Migration of Lymphocytes to Draining Lymph Nodes
Amanda G. Tesciuba, Rebecca A. Shilling, Monica D. Agarwal, Hozefa S. Bandukwala, Bryan S. Clay, Tamon V. Moore, Joel V. Weinstock, Andrew A. Welcher, and Anne I. Sperling

FOXP3 Induced by CD28/B7 Interaction Regulates CD25 and Anergic Phenotype in Human CD4+CD25− T Lymphocytes
Cristiano Scottà, Marzia Soligo, Cristina Camperio, and Enza Piccolella

Contribution of Regulatory T Cells and Effector T Cell Deletion in Tolerance Induction by Costimulation Blockade
Bert Verbinnen, An D. Billaux, Jan Vermeiren, Georgina Galicia, Dominique M. A. Bulens, Louis Boon, Pascal Cadot, Greet Hens, Christiane Dewolf-Peeters, Stefaan W. Van Goor, and Jan L. Ceuppens
Delayed Contraction of the CD8+ T Cell Response toward Lymphocytic Choriomeningitis Virus Infection in Mice Lacking Serglycin
Mirjana Grujic, Jan P. Christensen, Maria R. Sørensen, Magnus Abrink, Gunnar Pejler, and Allan R. Thomsen

IFN-α Induces Transcription of Hypoxia-Inducible Factor-1α to Inhibit Proliferation of Human Endothelial Cells
Scott A. Gerber and Jordan S. Pober

CD4+CD25− T Cells Transduced to Express MHC Class I-Restricted Epitope-Specific TCR Synthesize Th1 Cytokines and Exhibit MHC Class I-Restricted Cytolytic Effector Function in a Human Melanoma Model

CD27 Instructs CD4+ T Cells to Provide Help for the Memory CD8+ T Cell Response after Protein Immunization
Yanling Xiao, Victor Peperzak, Anna M. Keller, and Jannie Borst

Microbial Challenge Promotes the Regenerative Process of the Injured Central Nervous System of the Medicinal Leech by Inducing the Synthesis of Antimicrobial Peptides in Neurons and Microglia
David Schikorski, Virginie Cuvelier-Hot, Matthias Leippe, Céline Boidin-Wichlacz, Christian Slomianny, Eduardo Macagno, Michel Salzet, and Aurélie Tasiemski

Critical Role of CD4 Help in CD154 Blockade-Resistant Memory CD8 T Cell Activation and Allograft Rejection in Sensitized Recipients
Zheng Wu, Yue Wang, Feng Gao, Xiuda Shen, Yuan Zhai, and Jerzy W. Kupiec-Weglinski

Epidermal Receptor Activator of NF-κB Ligand Controls Langerhans Cells Numbers and Proliferation
Jean-Baptiste O. Barbaroux, Manfred Belenst, Cathrin Briken, Christopher G. Mueller, and Richard W. Grove

IL-15 Serves as a Costimulator in Determining the Activity of Autoreactive CD8 T Cells in an Experimental Mouse Model of Graft-versus-Host-Like Disease
Fumi Miyagawa, Yutaka Tagaya, Brian S. Kim, Hiral J. Patel, Kazuto Ishida, Tohjaki Ohteki, Thomas A. Waldmann, and Stephen I. Katz

Inhibition of CD26/Dipeptidyl Peptidase IV Enhances CCL11/Eotaxin-Mediated Recruitment of Eosinophils In Vivo

The Dynamics of Mouse Cytomegalovirus-Specific CD4 T Cell Responses during Acute and Latent Infection
Senta M. Walton, Philippe Wyrsch, Michael W. Musks, Albert Zimmermann, Hartmut Hengel, Ann B. Hill, and Annette Osenius

Expression of Wiskott-Aldrich Syndrome Protein in Dendritic Cells Regulates Synapse Formation and Activation of Naive CD8+ T Cells
Julian Pulecio, Elisa Tagliani, Alic Scholer, Francesca Prete, Luc Felter, Oscar R. Burrone, and Federica Renervati

Enterocyte-Derived TAK1 Signaling Prevents Epithelium Apoptosis and the Development of Ileitis and Colitis
Rie Kajino-Sakamoto, Maiko Inagaki, Elisabeth Lippert, Shizuo Akira, Sylvie Robine, Kunihiro Matsumoto, Christian Jobin, and Jun Ninomiya-Tsuji

B Cells Induce Tolerance by Presenting Endogenous Peptide-IgG on MHC Class II Molecules via an IFN-γ-Inducible Lysosomal Thiol Reductase-Dependent Pathway
Yan Su, Gregory Carey, Maja Marić, and David W. Scott

A Novel Virus Carrier State to Evaluate Immunotherapeutic Regimens: Regulatory T Cells Modulate the Pathogenicity of Antiviral Memory Cells
Phi Truong and Dorian B. McGavern
Leukotriene B4 Receptor 1 Expression on Dendritic Cells Is Required for the Development of Th2 Responses and Allergen-Induced Airway Hyperresponsiveness
Nobuki Miyahara, Hiroshi Ohnishi, Hiroaki Matsuda, Satoshi Miyabara, Katsumi Takeda, Toshiyuki Kaya, Shigeki Matsubara, Masakazu Okamoto, Azzeddine Dakhama, Nelli Shushakova, and Erwin W. Gelfand

Renal Urokinase-Type Plasminogen Activator (uPA) Receptor but not uPA Deficiency Strongly Attenuates Ischemia Reperfusion Injury and Acute Kidney Allograft Rejection
Faikah Gueler, Seng Rong, Michael Mengel, Joon-Keun Park, Julius Kiyi, Torsten Kirsch, Inna Dumler, Hermann Haller, and Charles E. Egwuagu

SOCS1 Regulates CCR7 Expression and Migration of CD4+ T Cells into Peripheral Tissues
Cheng-Rong Yu, Rashid M. Mahdi, Xuebin Lin, Allen Zhang, Tetsuji Naka, Tadamitsu Kishimoto, and Charles E. Egwuagu

CpG Oligonucleotides Enhance Proliferative and Effector Responses of B Cells in HIV-Infected Individuals
Angela Malaspina, Susan Moir, Angela C. DiPoto, Jason Ho, Wei Wang, Gregg Roby, Marie A. O’Shea, and Anthony S. Fauci

Peripheral T Lymphocytes Recirculating Back into the Thymus Can Mediate Thymocyte Positive Selection
Jörg Kirberg, Nabil Bosco, Jean-Cristophe Delhoume, Rod Ceredig, and Fabien Agenès

Mature Dendritic Cells Express Functional Thrombin Receptors Triggering Chemotaxis and CCL18/ Pulmonary and Activation-Regulated Chemokine Induction
Xuehua Li, Tatiana Syrova, Soetiana Paskas, Yves Laumonnier, and Thomas Simmet

Critical Role of Effector Macrophages in Mediating CD4-Dependent Alloimmune Injury of Transplanted Liver Parenchymal Cells

Osteal Tissue Macrophages Are Intercalated throughout Human and Mouse Bone Lining Tissues and Regulate Osteoblast Function In Vitro and In Vivo

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Elucidation of the MD-2/TLR4 Interface Required for Signaling by Lipid IVa
Catherine Walsh, Monique Gangloff, Tom Monie, Tomoko Smyth, Bin Wei, Trevor J. McKinley, Duncan Maskell, Nicholas Gay, and Clare Bryant

Demyelinating Myelin Oligodendrocyte Glycoprotein-Specific Autoantibody Response Is Focused on One Dominant Conformational Epitope Region in Rodents
Constanze Breithaupt, Beatrix Schäfer, Hannah Pellkafer, Robert Huber, Christopher Linington, and Uwe Jacob

Lambda Light Chain Revision in the Human Intestinal IgA Response
Wen Su, John N. Gordon, Francesca Barone, Laurent Boursier, Wayne Turnbull, Surangi Mendis, Deborah K. Dunn-Walters, and Jo Spencer

Biphasic Regulation of Il2 Transcription in CD4+ T Cells: Roles for TNF-α Receptor Signaling and Chromatin Structure
Susan C. McKarns and Ronald H. Schwartz

The Potency of Erythropoietin-Mimic Antibodies Correlates Inversely with Affinity
Susan E. Lacy, Peter J. DeVries, Nancy Xie, Emma Fung, Richard R. Lesniewski, and Edward B. Reilly

Type 1 TNF Receptor Forms a Complex with and Uses Jak2 and c-Src to Selectively Engage Signaling Pathways That Regulate Transcription Factor Activity
Roxana Pincheira, Ariel F. Castro, Osman Nidai Ozes, Prema S. Idumalla, and David B. Donner

IMMUNOGENETICS

Characterization of Ig Gene Somatic Hypermutation in the Absence of Activation-Induced Cytidine Deaminase
Nancy S. Longo, Colleen L. Satorius, Alessandro Plebani, Anne Durandy, and Peter E. Lipsky
Two Loci on Chromosome 15 Control Experimentally Induced Arthritis through the Differential Regulation of IL-6 and Lymphocyte Proliferation

Tibor T. Glant, Sándor Szántó, Aniko Vegvari, Zoltán Szabo, Katalin Kis-Toth, Katalin Mikecz, and Vyacheslav A. Adarichev

Balancing Selection Is the Main Force Shaping the Evolution of Innate Immunity Genes

Anna Ferrer-Admetlla, Elena Bosch, Martin Sikora, Tomàs Marquès-Bonet, Anna Ramírez-Soriano, Aura Muntañell, Arcadi Navarro, Rosi Lazarus, Francesc Calafell, Jaume Bertranpetit, and Ferran Casals

HOST DEFENSE

IFN-γ Regulated Chemokine Production Determines the Outcome of Staphylococcus aureus Infection

Rachel M. McLoughlin, Jean C. Lee, Dennis L. Kasper, and Arthur O. Tzianabos

Recruitment and Endo-Lysosomal Activation of TLR9 in Dendritic Cells Infected with Trypanosoma cruzi


The Absence of Lymphoid CD8⁺ Dendritic Cell Maturation in L-Selectin⁻/⁻ Respiratory Compartment Attenuates Antiviral Immunity

David W. Pascual, Xinhai Wang, Irina Kochevtova, Gayle Callis, and Carol Riccardi

IL-17A Inhibits the Expansion of IL-17A-Producing T Cells in Mice through “Short-Loop” Inhibition via IL-17 Receptor

Emily Smith, Matthew A. Stark, Alexander Zarbock, Tracy L. Burcin, Anthony C. Bruce, Devin Vaswani, Patricia Foley, and Klaus Ley

Granzymes Drive a Rapid Listeriolysin O-Induced T Cell Apoptosis

Javier A. Carrero, Hector Vivanco-Cid, and Emil R. Unanue

CD11c Expression Identifies a Population of Extrafollicular Antigen-Specific Splenic Plasmablasts Responsible for CD4 T-Independent Antibody Responses during Intracellular Bacterial Infection

Rachael Racine, Madhumouli Chatterjee, and Gary M. Winslow

Complete Cure of Experimental Visceral Leishmaniasis with Amphotericin B in Stearylamine-Bearing Cationic Liposomes Involves Down-Regulation of IL-10 and Favorable T Cell Responses

Antara Banerjee, Manjarika De, and Nahid Ali

Apolipoprotein E-Mediated Immune Regulation in Sepsis

Omar M. Kattan, F. Behzad Kasravi, Erica L. Elford, Michael T. Schell, and Hobart W. Harris

Parenchymal Cell TNF Receptors Contribute to Inflammatory Cell Recruitment and Respiratory Failure in Pneumocystis carinii-Induced Pneumonia

Gloria S. Pryhuber, Heidie L. Huyck, Samir Bhawat, Michael A. O’Reilly, Jacob N. Finkelstein, Francis Gigliotti, and Terry W. Wright

Malaria-Specific and Nonspecific Activation of CD8⁺ T Cells during Blood Stage of Plasmodium berghei Infection

Mana Miyakoda, Daisuke Kimura, Masao Yuda, Yasuo Chinzei, Yoshiyada Shibata, Kiri Honma, and Katsuyuki Yui

Identification of Formyl Peptides from Listeria monocytogenes and Staphylococcus aureus as Potent Chemoattractants for Mouse Neutrophils

Erica L. Southgate, Rong L. He, Ji-Liang Gao, Philip M. Murphy, Masakatsu Nanamori, and Richard D. Ye

INFLAMMATION

Selective Activation of Human Intestinal Mast Cells by Escherichia coli Hemolysin

Sigrid Krämer, Gernot Sellge, Axel Lorenz, Dagmar Krüger, Michael Schumann, Katharina Feilhauer, Florian Gunzer, and Stephan C. Bischoff

Varying Importance of Soluble and Membrane CD14 in Endothelial Detection of Lipopolysaccharide

Katie L. Lloyd-Jones, Margaret M. Kelly, and Paul Kubies
1454 Systemic Release of High Mobility Group Box 1 Protein during Severe Murine Influenza
Lisa M. Alleva, Alison C. Budd, and Ian A. Clark

1460 Fractalkine and CX3CR1 Mediate Leukocyte Capture by Endothelium in Response to Shiga Toxin
Cristina Zanchi, Carla Zoj, Marina Morigi, Federica Valucchi, Xia Yan Liu, Daniela Rotoli, Monica Locatelli,
Simona Buelli, Anna Pezzotta, Paola Mapelli, Joyce Geelen, Giuseppe Remuzzi, and Jacke Hawiger

1470 Monocyte Chemotactic Protein-1 (CCL-2) Integrates Mechanical and Endocrine Signals That
Mediate Term and Preterm Labor
Oksana Shynlova, Prudence Tsui, Anna Dorogin, and Stephen J. Lye

1480 Endoglycan, a Member of the CD34 Family of Sialomucins, Is a Ligand for the Vascular Selectins
Sheena C. Kerr, Claudia B. Fieger, Karen R. Snapp, and Steven D. Rosen

1491 Novel Immunomodulatory Properties of Berbamine through Selective Down-Regulation of STAT4 and
Action of IFN-γ in Experimental Autoimmune Encephalomyelitis
Yiping Ren, Limin Lu, Taylor B. Guo, Ju Qiu, Yiqing Yang, Ailian Liu, and Jingwu Z. Zhang

1499 Chemotactic Activity of S100A7 (Psoriasin) Is Mediated by the Receptor for Advanced Glycation End
Products and Potentiates Inflammation with Highly Homologous but Functionally
Distinct S100A15
Ronald Wolf, O. M. Zack Howard, Hui-Fang Dong, Christopher Voscopoulos, Karen Beehans, Jason Winston, Rao Divi,
 Michele Guniior, Paul Goldsmith, Bijan Alwazi, Triantafyllos Chavakis, Joon J. Oppenheim, and Stuart H. Yuspa

1507 IL-23 Induces Receptor Activator of NF-κB Ligand Expression on CD4+ T Cells and Promotes
Osteoclastogenesis in an Autoimmune Arthritis Model
Ji Hyeon Ju, Mi-La Cho, Young-Mee Moon, Hye-Joa Oh, Jin-Sil Park, Joo-Yeon Jhon, So-Youn Min, Young-Gyu Cho,
 Kyung-Su Park, Chong-Hyeon Yoon, Jin-Ki Min, Sung-Hwan Park, Young-Chul Sung, and Ho-Youn Kim

1519 Exosomes from Bronchoalveolar Fluid of Tolerized Mice Prevent Allergic Reaction
Noela Prado, Eva G. Marazuela, Elodie Segura, Héctor Fernández-García, Mayte Villalba, Clotilde Théry,
 Rosalía Rodríguez, and Eva Batanero

1526 Novel System Evaluating In Vivo Pathogenicity of Desmoglein 3-Reactive T Cell Clones Using Murine
Pemphigus Vulgaris
Hayato Takahashi, Masayuki Amagai, Takeji Nishikawa, Yoshiko Fujii, Yutaka Kawakami, and Masataka Kuwana

1536 Cigarette Smoke-Induced Oxidative Stress Suppresses Generation of Dendritic Cell IL-12 and IL-23
through ERK-Dependent Pathways
Paula R. Kroening, Terrance W. Barnes, Larry Pease, Andrew Limper, Hirohito Kita, and Robert Vassallo

1548 HIV-1 Tat Mediates Degradation of RON Receptor Tyrosine Kinase, a Regulator of Inflammation
Parisa Kelantari, Omid F. Harandi, Pamela A. Hankey, and Andrew J. Henderson

1556 Evidence for Genes in Addition to Tlr7 in the Yaa Translocation Linked with Acceleration of Systemic
Lupus Erythematosus
Marie-Laure Santiago-Raber, Shuichi Kikuchi, Paula Borel, Satoshi Uematsu, Shizuo Akira, Brian L. Kotzin,
 and Shozo Izui

1563 The Memory T Cell Response to West Nile Virus in Symptomatic Humans following Natural Infection Is
Not Influenced by Age and Is Dominated by a Restricted Set of CD8+ T Cell Epitopes
Robin Parsons, Alina Lelic, Lisa Hayes, Alexandra Carter, Laura Marshall, Carole Evelegh, Michael Drebot,
 Maya Andonova, Curtis McMurtrey, William Hildebrand, Mark B. Loeb, and Jonathan L. Bramson

1573 Restoration of the CD4 T Cell Compartment after Long-Term Highly Active Antiretroviral Therapy
without Phenotypical Signs of Accelerated Immunological Aging
Nienke Vrisekoop, Rogier van Gent, Anne Bregé de Boer, Sigrid A. Otto, Jan C. C. Borleffs, Radijn Steingroover,
 Jan M. Prins, Taco W. Kuijpers, Tom F. W. Wolfs, Sibyl P. M. Geelen, Irma Vulio, Peter Lansdorp, Kiki Teselaaar,
 Jan A. M. Borghans, and Frank Miedema

1582 Corrections

1583 Author Index