This information is current as of April 13, 2017.

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
1525 IN THIS ISSUE

LETTERS TO THE EDITOR

1527 Comment on “Interplay between TNF and Regulatory T Cells in a TNF-Driven Murine Model of Arthritis”
Xin Chen and Joost J. Oppenheim

1527 Response to Comment on “Interplay between TNF and Regulatory T Cells in a TNF-Driven Murine Model of Arthritis”
Jérôme Biton, Marie-Christophe Boissier, and Natacha Bessis

BRIEF REVIEWS

1529 Intracellular Lipid Flux and Membrane Microdomains as Organizing Principles in Inflammatory Cell Signaling
Michael B. Fessler and John S. Parks

CUTTING EDGE

1537 Cutting Edge: A Monoclonal Antibody Specific for the Programmed Death-1 Homolog Prevents Graft-versus-Host Disease in Mouse Models
Dallas B. Flies, Shengdian Wang, Haiying Xu, and Lieping Chen

1542 Cutting Edge: β-Catenin Is Dispensable for T Cell Effector Differentiation, Memory Formation, and Recall Responses
Martin Prlic and Michael J. Bevan

1547 Cutting Edge: HLA-DO Impairs the Incorporation of HLA-DM into Exosomes
Fangming Xiu, Marie-Hélène Côté, Marie-Claude Bourgeois-Daigneault, Alexandre Brunet, Marie-Élaine Gauvreaux, Andrew Shaw, and Jacques Thibodeau

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

1553 CD31 Is Required on CD4+ T Cells To Promote T Cell Survival during Salmonella Infection
Ewan A. Ross, Ruth E. Coughlan, Adriana Flores-Langarica, Saeeda Bobat, Jennifer L. Marshall, Khiyam Hussain, James Charlesworth, Nikita Abhyankar, Jessica Hitchcock, Cristina Gil, Constantino López-Macías, Ian R. Henderson, Mahmood Khan, Steve P. Watson, Ian C. M. MacLennan, Christopher D. Buckley, and Adam F. Cunningham

1566 Defects in the Bel-2–Regulated Apoptotic Pathway Lead to Preferential Increase of CD25lowFoxp3+ Anergic CD4+ T Cells
Yifan Zhan, Yuxia Zhang, Daniel Gray, Emma M. Carrington, Philippe Bouillet, Hyun-Ja Ko, Lorraine O’Reilly, Ian P. Wicks, Andreas Strasser, and Andrew M. Lew

1578 Immune Modulation by Zoledronic Acid in Human Myeloma: An Advantageous Cross-Talk between Vγ9Vδ2 T Cells, αβ CD8+ T Cells, Regulatory T Cells, and Dendritic Cells
Barbara Castella, Chiara Riganti, Francesca Fiore, Francesca Pantalone, Maria Elisa Canepari, Silvia Peola, Myriam Foglietta, Antonio Palumbo, Amalia Bosia, Marta Coscia, Mario Boccadoro, and Massimo Massaia

1591 Insulinoma-Released Exosomes or Microparticles Are Immunostimulatory and Can Activate Autoreactive T Cells Spontaneously Developed in Nonobese Diabetic Mice
Huiming Sheng, Saleema Hassanali, Courtney Nugent, Li Wen, Emma Hamilton-Williams, Peter Dias, and Yang D. Dai

1601 NKT Cells Inhibit Antigen-Specific Effector CD8 T Cell Induction to Skin Viral Proteins
Stephen R. Mattarollo, Michelle Yong, Christina Goismann, Allison Choyce, Dora Chan, Graham R. Leggatt, and Ian H. Frazer

1609 The Dual Function Cytokine IL-33 Interacts with the Transcription Factor NF-κB To Dampen NF-κB–Stimulated Gene Transcription
Shafaqat Ali, Antje Mohs, Meike Thomas, Jan Klare, Ralf Ross, Michael Lienhard Schmitz, and Michael Uwe Martin

1617 IDO Induces Expression of a Novel Tryptophan Transporter in Mouse and Human Tumor Cells
Jonathan D. Silk, Samira Lakhal, Robert Laynes, Laura Vallius, Ioannis Karydis, Cornelius Marcea, C. A. Richard Boyd, and Vincenzo Cerundolo

1626 Reactive Carbonyls Are a Major Th2-Inducing Damage-Associated Molecular Pattern Generated by Oxidative Stress
Amin E. Moghaddam, Kate H. Gartlan, Leopold Kong, and Quentin J. Sattentau

1634 4-1BB Signaling Synergizes with Programmed Death Ligand 1 Blockade To Augment CD8 T Cell Responses during Chronic Viral Infection
Vaisa Vezys, Pablo Penaloza-MacMaster, Daniel L. Barber, Sang-Jun Ha, Bogumila Konieczny, Gordon J. Freeman, Robert S. Mittler, and Raif Ahmed

1643 Galectin-1 and Galectin-8 Have Redundant Roles in Promoting Plasma Cell Formation
Chih-Ming Tzai, Chin-Huey Guan, Hisiao-Wu Hsieh, Tsui-Ling Hsu, Zhijay Tu, Kuan-Jung Wu, Chun-Hung Lin, and Kuo-I Lin

1653 Graft-versus-Leukemia (GVL) against Mouse Blast-Crisis Chronic Myelogenous Leukemia (BC-CML) and Chronic-Phase Chronic Myelogenous Leukemia (CP-CML): Shared Mechanisms of T Cell Killing, but Programmed Death Ligands Render CP-CML and Not BC-CML GVL Resistant
Catherine Matte-Martone, Sreividya Venkatesan, Hung Sheng Tan, Ioanna Athanasiadis, Julia Chang, Jovana Pavisic, and Warren D. Shlomchik

1664 Imiquimod-Induced TLR7 Signaling Enhances Repair of DNA Damage Induced by Ultraviolet Light in Bone Marrow-Derived Cells
Rita Fishelevich, Yuming Zhao, Papapit Tuchinda, Hannah Liu, Ayako Nakazono, Antonella Tammamo, Tzu-Ching Meng, Jim Lee, and Anthony A. Gaspari

1674 Inhibition of MicroRNA let-7i Depresses Maturation and Functional State of Dendritic Cells in Response to Lipopolysaccharide Stimulation via Targeting Suppressor of Cytokine Signaling 1
Maomao Zhang, Fang Liu, Haibo Jia, Qi Zhang, Li Yin, Wei Liu, Hulun Li, Bo Yu, and Jian Wu
1684 Foxp3-Mediated Suppression of CD95L Expression Confers Resistance to Activation-Induced Cell Death in Regulatory T Cells
Eva-Maria Weiss, Angelika Schmidt, Diana Vobis, Natalio Garbi, Katharina Lahl, Christian T. Mayer, Tim Sparwasser, Andreas Ludwig, Elisabeth Suri-Payer, Nina Oberle, and Peter H. Krammer

1692 Soluble Proteins Induce Strong CD8+ T Cell and Antibody Responses through Electrostatic Association with Simple Cationic or Anionic Lipopeptides That Target TLR2
Brendon Y. Chua, David Pejsaki, Stephen J. Turner, Weiguang Zeng, and David C. Jackson

1702 TNF Receptor 1 Deficiency Increases Regulatory T Cell Function in Nonobese Diabetic Mice
Jonathan Chee, Eveline Angstetra, Lina Mariana, Kate L. Graham, Emma M. Carrington, Horst Bluethmann, Pere Santamaria, Janette Allison, Thomas W. H. Kay, Balasubramanian Krishnamurthy, and Helen E. Thomas

1713 Innate Immune Responses in Human Monocyte-Derived Dendritic Cells Are Highly Dependent on the Size and the 5’ Phosphorylation of RNA Molecules
Miao Jiang, Pamela Österlund, L. Peter Satirin, Minna M. Porsanen, Dennis H. Bamsford, Depiu Guo, and Ilkka Julkunen

1722 Cytomegalovirus-Specific T Cell Immunity Is Maintained in Immunosenescent Rhesus Macaques

1733 Lung Tumor-Associated Dendritic Cell-Derived Amphiregulin Increased Cancer Progression
Ya-Ling Hsu, Ming-Shyan Huang, Da-En Cheng, Jen-Yu Hung, Chih-Jen Yang, Shub-Hua Chou, and Po-Lin Kao

1745 Antigen-Specific TGF-β–Induced Regulatory T Cells Secrete Chemokines, Regulate T Cell Trafficking, and Suppress Ongoing Autoimmunity
Thanh-Long M. Nguyen, Nicole L. Sullivan, Mark Ebel, Ryan M. Teague, and Richard J. DiPaolo

1754 Interaction with FcγRIIB Is Critical for the Agonistic Activity of Anti-CD40 Monoclonal Antibody

1764 Macrophage Differentiation and Polarization via Phosphatidylinositol 3-Kinase/Akt–ERK Signaling Pathway Conferred by Serum Amyloid P Component
Weijuan Zhang, Wei Xu, and Sidong Xiong

1778 Progesterone Promotes Differentiation of Human Cord Blood Fetal T Cells into T Regulatory Cells but Suppresses Their Differentiation into Th17 Cells
Jee H. Lee, Benjamin Ulrich, Jungyoon Cho, Jeonhgo Park, and Chang H. Kim

1788 Lentivector Prime and Vaccinia Virus Vector Boost Generate High-Quality CD8 Memory T Cells and Prevent Autochthonous Mouse Melanoma
Haiyan Xiao, Yikang Peng, Yuan Hong, Yanjun Liu, Z. Sheng Guo, David L. Bartlett, Ning Fu, and Yukai He

MOLECULAR AND STRUCTURAL IMMUNOLOGY

1797 NF-κB Signaling Participates in Both RANKL- and IL-4–Induced Macrophage Fusion: Receptor Cross-Talk Leads to Alterations in NF-κB Pathways
Minjun Yu, Xiulan Qi, Jose L. Moreno, Donna L. Farber, and Achsah D. Keegan

1807 The Src Family Kinase Fgr Is Critical for Activation of Mast Cells and IgE-Mediated Anaphylaxis in Mice
Jin Ho Lee, Jie Wan Kim, Do Kyun Kim, Hyuk Soon Kim, Hye Jin Park, Dong Ki Park, A-Ram Kim, Bokyung Kim, Michael A. Beaven, Kui Lea Park, Young Mi Kim, and Wahn Soo Choi

1816 The First Ig Domain of KIR3DL1 Contacts MHC Class I at a Secondary Site
Li Fu, Bart Hazes, and Deborah N. Burshtyn

1826 Repair of Chromosomal RAG-Mediated DNA Breaks by Mutant RAG Proteins Lacking Phosphatidylinositol 3-Like Kinase Consensus Phosphorylation Sites
Eric J. Gapud, Baeck-Seung Lee, Grace K. Mahowald, Craig H. Bassing, and Barry P. Sleckman
IMMUNOGENETICS

1835 Selection of Individual V_{H} Genes Occurs at the Pro-B to Pre-B Cell Transition
Wenzhao Meng, Lenka Yunk, Li-San Wang, Avinash Maganty, Emily Xue, Philip L. Cohen, Robert A. Eisenberg, Martin G. Weigert, Stephane J. C. Mancini, and Eline T. Luning Prak

HOST DEFENSE

1845 IFN-β Mediates Suppression of IL-12p40 in Human Dendritic Cells following Infection with Virulent Francisella tularensis
Timothy J. Bauler, Jennifer C. Chase, and Catharine M. Bosio

1856 Innate Immune Collectin Surfactant Protein D Simultaneously Binds Both Neutrophil Extracellular Traps and Carbohydrate Ligands and Promotes Bacterial Trapping
David Nobuhiro Douda, Richard Jackson, Hartmut Grasemann, and Nades Palaniyar

1866 Protective Roles for Fibrin, Tissue Factor, Plasminogen Activator Inhibitor-1, and Thrombin Activatable Fibrinolysis Inhibitor, but Not Factor XI, during Defense against the Gram-Negative Bacterium Yersinia enterocolitica
Deyan Luo, Frank M. Szaba, Lawrence W. Kummer, Edward F. Plow, Nigel Mackman, David Gailani, and Stephen T. Smiley

1877 Vitamin A Deficiency Impairs Vaccine-Elicited Gastrointestinal Immunity
David R. Kaufman, Jaime De Calisto, Nathaniel L. Simmons, Ashley N. Cruz, Eduardo J. Villablanca, J. Rodrigo Mora, and Dan H. Barouch

1884 Specific Sites of N-Linked Glycosylation on the Hemagglutinin of H1N1 Subtype Influenza A Virus Determine Sensitivity to Inhibitors of the Innate Immune System and Virulence in Mice
Michelle D. Tate, Andrew G. Brooks, and Patrick C. Reading

1895 Precursor Frequency and Competition Dictate the HLA-A2– Restricted CD8+ T Cell Responses to Influenza A Infection and Vaccination in HLA-A2.1 Transgenic Mice
Amabel C. L. Tan, Nicole L. La Gruta, Weiguang Zeng, and David C. Jackson

INFLAMMATION

1912 Processing of Human Protryptase in Mast Cells Involves Cathepsins L, B, and C
Quang T. Le, Gregorio Gomez, Wei Zhao, Jiang Hu, Han-Zhang Xia, Yoshihiro Fukuoka, Nobuhiko Katunuma, and Lawrence B. Schwartz

1919 Role of IL-17 and Th17 Cells in Herpes Simplex Virus-Induced Corneal Immunopathology
Amol Suryawanshi, Tamara Veiga-Parga, Naveen K. Rajasagi, Pradeep Babu Jagdeesh Reddy, Sharvan Sehrawat, Shalini Sharma, and Barry T. Rouse

1931 Bacteroides fragilis Enterotoxin Upregulates Intercellular Adhesion Molecule-1 in Endothelial Cells via an Aldose Reductase-, MAPK-, and NF-κB–Dependent Pathway, Leading to Monocyte Adhesion to Endothelial Cells
Hyun Cheol Roh, Do Young Yoo, Su Hyuk Ko, Young-Jeon Kim, and Jung Mogg Kim

1942 Deficiency of the Leukotriene B4 Receptor, BLT-1, Protects against Systemic Insulin Resistance in Diet-Induced Obesity
Matthew Spite, Jason Hellmann, Yunan Tang, Steven P. Mathis, Madhavi Kosuri, Aruni Bhatnagar, Venkatakrishna R. Jala, and Bodduluri Haribabu

1950 Prevention of Lymphocyte Apoptosis in Septic Mice with Cancer Increases Mortality
Amy C. Fox, Elise R. Breed, Zhe Liang, Andrew T. Clark, Brendan R. Zee-Cheng, Katherine C. Chang, Jessica A. Dominguez, Enjue Jung, W. Michael Dunne, Eileen M. Burd, Alton B. Farris, David C. Linehan, and Craig M. Coopersmith
1957 Omega-3 Fatty Acid-Derived Mediators 17(R)-Hydroxy Docosahexaenoic Acid, Aspirin-Triggered Resolvin D1 and Resolvin D2 Prevent Experimental Colitis in Mice
Allison Freire Bento, Rafaela Franco Claudino, Rafael Cypriano Dutra, Rodrigo Marcon, and João B. Calixto

1970 Hypoxia-Inducible Factor-2α Regulates GM-CSF-Derived Soluble Vascular Endothelial Growth Factor Receptor 1 Production from Macrophages and Inhibits Tumor Growth and Angiogenesis
Julie M. Roda, Laura A. Sunner, Randall Evans, Gary S. Phillips, Clay B. Marsh, and Timothy D. Eubank

CLINICAL IMMUNOLOGY

1977 Uveitis-Associated Epitopes of Retinal Antigens Are Pathogenic in the Humanized Mouse Model of Uveitis and Identify Autoaggressive T Cells

1986 Cytosolic Phospholipase A2α Blockade Abrogates Disease during the Tissue-Damage Effector Phase of Experimental Autoimmune Encephalomyelitis by Its Action on APCs
Paresh Thakker, Suzana Marusic, Nancy L. Stedman, Katherine L. Lee, John C. McKew, Andrew Wood, Samuel J. Goldman, Michael W. Leach, Mary Collins, Vijay K. Kuchroo, Stanley F. Wolf, James D. Clark, and Mina Hassan-Zahraee

1998 Increased T Cell Proliferative Responses to Islet Antigens Identify Clinical Responders to Anti-CD20 Monoclonal Antibody (Rituximab) Therapy in Type 1 Diabetes

2006 TCR-Independent Killing of B Cell Malignancies by Anti–Third-Party CTLs: The Critical Role of MHC–CD8 Engagement
Assaf Lask, Polina Goichberg, Adva Cohen, Rinat Goren-Arbel, Oren Miletin, Shraga Aviner, Ilan Feine, Eran Ophir, Shlomit Reich-Zeliger, David Hagin, Tirza Klein, Arnon Nagler, Alain Berrebi, and Yair Reisner

2015 Anti-CD3 Therapy Promotes Tolerance by Selectively Depleting Pathogenic Cells while Preserving Regulatory T Cells
Cristina Penaranda, Qizhi Tang, and Jeffrey A. Bluestone

2023 IL-7 Dysregulation and Loss of CD8+ T Cell Homeostasis in the Monogenic Human Disease Autoimmune Polyendocrinopathy–Candidiasis–Ectodermal Dystrophy
Sini M. Laakso, Eliisa Kekäläinen, Laura H. Rossi, Tuisku-Tuulia Laurinolli, Helga Mannervik, Nelli Heikilä, Anni Lehtoviita, Jaakko Perheentupa, Hanna Jarva, and T. Petteri Arstila

CORRECTIONS

2031 Correction: Levels of Adenosine Deaminase on Dendritic Cells Promote Autoreactive T Cell Activation and Diabetes in Nonobese Diabetic Mice
Faranak Ghaemi Oskouie, Afshin Shameli, Ailian Yang, Melanie D. Desroiers, Ashley D. Mucsi, Michael R. Blackburn, Yang Yang, Pere Santamaria, and Yan Shi

2032 AUTHOR INDEX