IN THIS ISSUE
2505 Diverse NKTs Love Listeria See article p. 2540
B Cells Buddy Up in Lupus See article p. 2571
Mitochondria Misfire in Old Age See article p. 2624
RANKing mTEC Activity See article p. 2675

BRIEF REVIEWS
2507 Control of Regulatory T Cell Migration, Function, and Homeostasis
Daniel J. Campbell

CUTTING EDGE
2515 Cutting Edge: miR-17-92 Is Required for Both CD4 Th1 and T Follicular Helper Cell Responses during Viral Infection
Tuoqi Wu, Andreas Wieland, Judong Lee, J. Scott Hale, Jin-Hwan Han, Xiaojin Xu, and Rafi Ahmed

2520 Cutting Edge: AhR Is a Molecular Target of Calcitriol in Human T Cells
Mariko Takami, Kotaro Fujimaki, Michael I. Nishimura, and Makio Iwahima

2524 Cutting Edge: Hematopoietic Stem Cell Expansion and Common Lymphoid Progenitor Depletion Require Hematopoietic-Derived, Cell-Autonomous TLR4 in a Model of Chronic Endotoxin
Ailing Liu, Yajuan Wang, Ying Ding, Ineavely Baez, Kimberly J. Payne, and Lisa Borghesi

ALLERGY AND OTHER HYPERSENSITIVITIES
2529 IL-3 Maintains Activation of the p90S6K/RPS6 Pathway and Increases Translation in Human Eosinophils
Stephane Esnault, Elizabeth A. B. Kelly, Zhong-jian Shen, Mats W. Johansson, James S. Malter, and Nizar N. Jarjour

Identification of a Potent Microbial Lipid Antigen for Diverse NKT Cells
Benjamin J. Wolf, Raju V. V. Tatituri, Catarina F. Almeida, Jérôme Le Nours, Veeval Bhowruth, Darryl Johnson, Adam P. Uldrich, Fong-Fu Hsu, Manfred Brigl, Gurdyal S. Besra, Jamie Rossjohn, Dale I. Godfrey, and Michael B. Brenner

Th Cell Diversity in Experimental Autoimmune Encephalomyelitis and Multiple Sclerosis
Kevin S. Carabajal, Yevgeniya Mironova, Justin T. Ulrich-Lewis, Deven Kulkarni, Heather M. Grifka-Walk, Amanda K. Huber, Peter Shrager, Roman J. Giger, and Benjamin M. Segal

Loss of Phosphatase and Tensin Homolog in APCs Impedes Th17-Mediated Autoimmune Encephalomyelitis
Emine Sahin, Julia S. Brunner, Julia B. Krul, Mario Kuttke, Leslie Hanzl, Hannes Datler, Hannah Paar, Nick Newinger, Victoria Saferding, Elisabeth Zinner, Angela Halfmann, Klara Soukup, Eva Hainzl, Tobias Lohmeyer, Birgit Niederreiter, Thomas Haider, Alexander M. Dolmal, Gerhard Krönke, Stephan Blüm, and Gernot Schabbauer

B Cell–Specific MHC Class II Deletion Reveals Multiple Nonredundant Roles for B Cell Antigen Presentation in Murine Lupus
Josephine R. Giles, Michael Kashgarian, Pandelakis A. Koni, and Mark J. Shlomchik

IL-17A Contributes to the Pathogenesis of Endometriosis by Triggering Proinflammatory Cytokines and Angiogenic Growth Factors
Soo Hyun Ahn, Andrew K. Edwards, Sukhbir S. Singh, Steven L. Young, Bruce A. Lessey, and Chandrakant Tayade

IRF4 Is a Critical Gene in Retinoic Acid–Mediated Plasma Cell Formation and Is Deregulated in Common Variable Immunodeficiency–Derived B Cells
Randi L. Indrevær, Jan Ø. Moskaug, Ingvild Paur, Siv K. Bøhn, Silje F. Jørgensen, Rune Blomhoff, Pål Aukrust, Børre Frevang, and Heidi K. Blomhoff

Cellular FLIP Inhibits Myeloid Cell Activation by Suppressing Selective Innate Signaling
Yu-Jung Wu, Yung-Hsuan Wu, Shu-Ting Mo, Huey-Wen Hsiao, You-Wen He, and Ming-Zong Lai

Loss of Phagocytic and Antigen Cross-Presenting Capacity in Aging Dendritic Cells Is Associated with Mitochondrial Dysfunction
Claire A. Chougnet, Robert I. Thacker, Hesham M. Shehata, Cassandra M. Hennies, Maria A. Lehn, Celine S. Lages, and Edith M. Janssen

Transmembrane TNF–TNFR2 Impairs Th17 Differentiation by Promoting IL2 Expression
Patrick G. Miller, Michael B. Bonn, and Susan C. McKarns

Hepatic Stellate Cells Inhibit T Cells through Active TGF-β1 from a Cell Surface–Bound Latent TGF-β1/GARP Complex
Yan Li, Byung-Gyu Kim, Shiguang Qian, John J. Letterio, John J. Fung, Lina Lu, and Feng Lin

1,25(OH)2D3 Promotes the Efficacy of CD28 Costimulation Blockade by Abatacept
David H. Gardner, Louisa E. Jeffery, Blagoje Soskic, Zoe Briggs, Tie Zheng Hou, Karim Raza, and David M. Sansom

Inhibition of B Lymphopoiesis by Adipocytes and IL-1–Producing Myeloid-Derived Suppressor Cells
Domenick E. Kennedy and Katherine L. Knight
Osteoprotegerin-Mediated Homeostasis of Rank+ Thymic Epithelial Cells Does Not Limit Foxp3+ Regulatory T Cell Development
Nicholas I. McCarthy, Jennifer E. Cowan, Kyoko Nakamura, Andrea Bacon, Song Baik, Andrea J. White, Sonia M. Parnell, Eric J. Jenkinson, William E. Jenkinson, and Graham Anderson

Transcription Factor Repertoire of Homeostatic Eosinophilopoiesis
Carine Bouffi, Andrey V. Kartashov, Kaila L. Schollaert, Xiaoting Chen, W. Clark Bacon, Matthew T. Weirau, Artem Barski, and Patricia C. Fulkerson

Multiple Hecpidins in a Teleost Fish, Dicentrarchus labrax: Different Hecpidins for Different Roles
João V. Neves, Carolina Caldas, Ines Vieira, Miguel F. Ramos, and Pedro N. S. Rodrigues

IMMUNOTHERAPY AND VACCINES

Colocalization of a CD1d-Binding Glycolipid with a Radiation-Attenuated Sporozoite Vaccine in Lymph Node–Resident Dendritic Cells for a Robust Adjuvant Effect
Xiangming Li, Akira Kawamura, Chasity D. Andrews, Jessica L. Miller, Douglass Wu, Tiffany Tao, Min Zhang, Deena Oren, Neal N. Padte, Steven A. Porcelli, Chi-Huey Wong, Stefan H. I. Kappe, David D. Ho, and Moriya Tsuji

INFECTIOUS DISEASE AND HOST RESPONSE

Ubiquitination as a Mechanism To Transport Soluble Mycobacterial and Eukaryotic Proteins to Exosomes
Victoria L. Smith, Liam Jackson, and Jeffrey S. Schorey

Antimony-Resistant Leishmania donovani Exploits miR-466i To Deactivate Host MyD88 for Regulating IL-10/IL-12 Levels during Early Hours of Infection
Budhaditya Mukherjee, Jaydeep Paul, Sandip Mukherjee, Rapkatha Mukhopadhyay, Shantanabha Das, Khudiram Naskar, Shyam Sundar, Jean-Claude Dujardin, Bhaskar Saha, and Syamal Roy

Endothelial Cell Sensitization by Death Receptor Fractions of an Anti–Dengue Nonstructural Protein 1 Antibody Induced Plasma Leakage, Coagulopathy, and Mortality in Mice
Der-Shan Sun, Ying-Chen Chang, Tr-Sheng Lien, Chuan-Chuen King, Yang-Luen Shih, Huan-Shun Huang, Teng-Yi Wang, Chen-Ru Li, Chin-Cheng Lee, Ping-Ning Hsu, and Hsin-Hou Chang

Impact of Toxoplasma gondii on Dendritic Cell Subset Function in the Intestinal Mucosa
Sara B. Cohen and Eric Y. Denkers

Heme Oxygenase-1 Regulation of Matrix Metalloproteinase-1 Expression Underlies Distinct Disease Profiles in Tuberculosis

INNATE IMMUNITY AND INFLAMMATION

The Novel Receptor C5aR2 Is Required for C5a-Mediated Human Mast Cell Adhesion, Migration, and Proinflammatory Mediator Production
Priyanka Pandur, Clayton A. MacDonald, and Marianna Kalka

CXCL9 Regulates TGF-β1–Induced Epithelial to Mesenchymal Transition in Human Alveolar Epithelial Cells
Sarah L. O'Beirne, Sinead M. Walsh, Aurélie Fabre, Carlota Reviriego, Julie C. Worrell, Ian P. Counihan, Robert V. Lumden, Jennifer Crampton-Barnes, John A. Belperio, Seamas D. Donnelly, Denise Boylan, Joëlle Marchal-Sommeé, Rosemary Kane, and Michael P. Keane

CX3CL1–CX3CR1 Interaction Increases the Population of Ly6C−CX3CR1hi Macrophages Contributing to Unilateral Ureteral Obstruction–Induced Fibrosis
Xiaogang Peng, Jing Zhang, Zhicheng Xiao, Yanjun Dong, and Jie Du

MicroRNA-15/16 Antagonizes Myb To Control NK Cell Maturation
Ryan P. Sullivan, Jeffrey W. Leong, Stephanie E. Schneider, Aaron R. Ireland, Melissa M. Berrien-Elliott, Anvita Singh, Timothy Schappe, Brea A. Jewell, Veronika Sexl, and Todd A. Fehniger
2818 Priming of Human Resting NK Cells by Autologous M1 Macrophages via the Engagement of IL-1β, IFN-β, and IL-15 Pathways
Irene Mattiola, Matthieu Pesant, Paolo F. Tentorio, Martina Molgora, Emanuela Marcenaro, Enrico Lugli, Massimo Locati, and Domenico Mavilio

2829 Stimulation of the RIG-I/MAVS Pathway by Polyinosinic:Polycytidylic Acid Upregulates IFN-β in Airway Epithelial Cells with Minimal Costimulation of IL-8
Nurlan Dauletbaev, Maria Cammmiano, Kasley Herscovitch, and Larry C. Lands

MOLECULAR AND STRUCTURAL IMMUNOLOGY
2842 Crystal Structure of Insulin-Regulated Aminopeptidase with Bound Substrate Analogue Provides Insight on Antigenic Epitope Precursor Recognition and Processing
Anastasia Mpakali, Emmanuel Saridakis, Karl Harlos, Yaguang Zhao, Athanasios Papakryiakou, Paraskevi Kokkala, Dimitris Georgiadis, and Eftirios Stratikos

2852 Lipoxin A₄ Attenuates Constitutive and TGF-β1–Dependent Profibrotic Activity in Human Lung Myofibroblasts
Katy M. Roach, Carol A. Begali-Bostwick, Yassine Amrani, and Peter Bradding

2861 DNA Methylation Regulates the Differential Expression of CX3CR1 on Human IL-7Rαlow and IL-7Rαhigh Effector Memory CD8+ T Cells with Distinct Migratory Capacities to the Fractalkine

2870 Parafibromin Is a Component of IFN-γ–Triggered Signaling Pathways That Facilitates JAK1/2-Mediated Tyrosine Phosphorylation of STAT1
Jin Wei, Huan Lian, Bo Zhong, and Hong-Bing Shu

MUCOSAL IMMUNOLOGY
2888 MyD88 Signaling Regulates Steady-State Migration of Intestinal CD103+ Dendritic Cells Independently of TNF-α and the Gut Microbiota
Karin Hägerbrand, Jessica Westlund, Ulf Yrlid, William Agace, and Bengt Johansson-Lindbom

2900 Role of B Cells in Mucosal Vaccine–Induced Protective CD8+ T Cell Immunity against Pulmonary Tuberculosis
Amandeep K. Khera, Sam Afkhami, Rocky Lai, Mangalakumari Jeyanathan, Anna Zganiaz, Talveer Mandur, Joni Hammill, Daniela Damjanovic, and Zhou Xing

TUMOR IMMUNOLOGY
2908 Modulation of the IL-6 Receptor α Underlies GLI2-Mediated Regulation of Ig Secretion in Waldenström Macroglobulinemia Cells

CORRECTIONS
2917 Correction: SP-A Preserves Airway Homeostasis during Mycoplasma pneumoniae Infection in Mice
Julie G. Ledford, Hisatsugu Goto, Erin N. Potts, Simone Degnan, Hong Wei Chu, Dennis R. Voelker, Mary E. Sunday, George J. Cianciolo, William M. Foster, Monica Krafi, and Jo Rae Wright

AUTHOR INDEX