This information is current as of April 16, 2017.
## IN THIS ISSUE

### BRIEF REVIEWS

**513** HLA Class II Molecules Influence Susceptibility versus Protection in Inflammatory Diseases by Determining the Cytokine Profile  
*Ashutosh K. Mangalam, Veena Taneja, and Chella S. David*

### CUTTING EDGE

**521** Cutting Edge: IL-17–Secreting Innate Lymphoid Cells Are Essential for Host Defense against Fungal Infection  
*André Gladiatore, Nicolette Wangler, Kerstin Trautwein-Weidner, and Salome LeibundGut-Landmann*

**526** Cutting Edge: Chronic Inflammatory Liver Disease in Mice Expressing a CD28-Specific Ligand  
*Emily Corse, Rachel A. Gottschalk, Joon Seok Park, Manuel A. Sepulveda, Ping Loke, Timothy J. Sullivan, Linda K. Johnson, and James P. Allison*

### ALLERGY AND OTHER HYPERSENSITIVITIES

**531** IL-33 Induces a Hyporesponsive Phenotype in Human and Mouse Mast Cells  
*Mi-Yeon Jung, Daniel Smrz, Avanti Desai, Geethani Bandara, Tomonobu Ito, Shoko Iwaki, Jeong-Han Kang, Marcus V. Andreade, Susana C. Hilderbrand, Jared M. Brown, Michael A. Beaven, Dean D. Metcalfe, and Alasdair M. Gilfillan*

**539** Sequential Engagement of FcεRI on Mast Cells and Basophil Histamine H4 Receptor and FcεRI in Allergic Rinitis  
*Yoshiki Shiraishi, Yi Jia, Joanne Domenico, Anthony Joetham, Hajime Karasuyama, Katsuyuki Takeda, and Erwin W. Gelfand*

### ANTIGEN RECOGNITION AND RESPONSES

**549** Balance between NF-κB p100 and p52 Regulates T Cell Costimulation Dependence  
*Maria Letizia Giardino Torchia, Dietrich B. Conze, Dragana Jankovic, and Jonathan D. Ashwell*
IMMUNE REGULATION

556 Ascorbate in Aqueous Humor Augments Nitric Oxide Production by Macrophages
Kyle C. McKenna, Kelly M. Beatty, Rebecca C. Scheder, Fuwang Li, Huanbo Liu, Alex F. Chen, Arnab Ghosh, and Dennis J. Stuehr

565 PGE2 Induces Macrophage IL-10 Production and a Regulatory-like Phenotype via a Protein Kinase A–SIK–CRTC3 Pathway
Kirsty F. MacKenzie, Christopher Clark, Shaista Naqvi, Victoria A. McGuire, Gea Nöhrren, Yosua Kristianyanto, Mirjam van den Bosch, Manikbandan Mudalid, Pierre C. McCarthy, Michael J. Pattison, Patrick G. A. Pedrioli, Geoff J. Barton, Rachel Tosh, Alan Prescott, and J. Simon C. Arthur

578 Induction of Rapid T Cell Death and Phagocytic Activity by Fas-Deficient lpr Macrophages
Ritsuko Oura, Rieko Arakaki, Akiko Yamada, Yasuei Kudo, Eiji Tanaka, Yoshio Hayashi, and Naozumi Ishimaru

IMMUNE SYSTEM DEVELOPMENT

586 Three-Dimensional Visualization of the Mouse Thymus Organization in Health and Immunodeficiency
Magali Irla, Jeanne Guenot, Gregg Sealy, Walter Reith, Beat A. Imhof, and Arnauld Sergé

597 Coactivator-Associated Arginine Methyltransferase 1 Regulates Fetal Hematopoiesis and Thymocyte Development
Jia Li, Ziqin Zhao, Carla Carter, Lauren J. R. Ehrlich, Mark T. Bedford, and Ellen R. Richie

605 Systemic Circulation and Bone Recruitment of Osteoclast Precursors Tracked by Using Fluorescent Imaging Techniques
Manato Kotani, Junichi Kikuta, Frederick Klauschen, Takenao Chino, Yasuhiro Kobayashi, Hisataka Yasuda, Katsuto Tamai, Atsushi Miyawaki, Osami Kanagawa, Michio Tomura, and Masaru Ishii

IMMUNOTHERAPY AND VACCINES

613 Vaccine Injection Site Matters: Qualitative and Quantitative Defects in CD8 T Cells Primed as a Function of Proximity to the Tumor in a Murine Glioma Model
John R. Ohlfest, Brian M. Andersen, Adam J. Litterman, Junzhe Xia, Christopher A. Pennell, Lauryn E. Swier, Andres M. Salazar, and Michael R. Olin

INFECTIOUS DISEASE AND HOST RESPONSE

621 Early IL-17 Production by Intrahepatic T Cells Is Important for Adaptive Immune Responses in Viral Hepatitis
Lifei Hou, Zuliang Jie, Mayura Desai, Yuejin Liang, Lynn Soong, Tian Wang, and Jiaren Sun

630 Galectin-3 Facilitates Neutrophil Recruitment as an Innate Immune Response to a Parasitic Protozoa Cutaneous Infection
Pampa Bhaumik, Guillaume St-Pierre, Valérie Milot, Christian St-Pierre, and Sachiko Sato

641 The Depletion of NK Cells Prevents T Cell Exhaustion to Efficiently Control Disseminating Virus Infection
Kevin D. Cook and Jason K. Whitmire

650 Broad RNA Interference–Mediated Antiviral Immunity and Virus-Specific Inducible Responses in Drosophila
Cordula Kemp, Stefanie Mueller, Akira Goto, Vincent Barbier, Simona Paro, François Bonnay, Catherine Dostert, Laurent Trexl, Charles Hetru, Carine Meignin, Sébastien Pfeffer, Jules A. Hoffmann, and Jean-Luc Immler

659 Novel Cellular Targets of AhR Underlie Alterations in Neutrophilic Inflammation and Inducible Nitric Oxide Synthase Expression during Influenza Virus Infection
Jennifer L. Head Wheeler, Kyle C. Martin, and B. Paige Lawrence

669 Microparticles from Mycobacteria-Infected Macrophages Promote Inflammation and Cellular Migration
Shaun B. Walters, Jens Kieckbusch, Gayathri Nagalingam, Ashleigh Swain, Sharissa L. Latham, Georges E. R. Grau, Warwick J. Britton, Valéry Combes, and Bernadette M. Saunders
INNATE IMMUNITY AND INFLAMMATION

678 MicroRNA-31 Is Overexpressed in Psoriasis and Modulates Inflammatory Cytokine and Chemokine Production in Keratinocytes via Targeting Serine/Threonine Kinase 40
Ning Xu, Florian Meigen, Lynn M. Butler, Gangwen Han, Xiao-Jing Wang, Cecilia Söderberg-Nauclér, Mona Sähle, Audor Pivarcsi, and Eniko Sonkoly

689 Resolvin E1 and Chemokine-like Receptor 1 Mediate Bone Preservation
Li Gao, Dan Faihish, Gabrielle Freedman, Bruno S. Herrera, Nan Chiang, Charles N. Serhan, Thomas E. Van Dyke, and Robert Gyurko

695 Cell-Specific TLR9 Trafficking in Primary APCs of Transgenic TLR9-GFP Mice
Ana M. Azulay, Oktay Kirak, J. Margit Oelkers, Marina C. Pils, You-Me Kim, Matthias Ottinger, Rudolf Jaenisch, Hidde L. Ploegh, and Melanie M. Brinkmann

703 IL-6 Controls the Innate Immune Response against *Listeria monocytogenes* via Classical IL-6 Signaling
Judith Hoge, Isabell Yan, Nathalie Jänner, Valéa Schumacher, Athena Chataris, Oliver M. Steinmetz, Daniel R. Engel, Jürgen Scheller, Stefan Rose-John, and Hans-Willi Mittrücker

712 NK Cell Maturation and Function in C57BL/6 Mice Are Altered by Caloric Restriction
Jonathan F. Clinthorne, Eleni Beli, David M. Duriancik, and Elizabeth M. Gardner

MOLECULAR AND STRUCTURAL IMMUNOLOGY

723 Prohibitins and the Cytoplasmic Domain of CD86 Cooperate To Mediate CD86 Signaling in B Lymphocytes
Christopher R. Lucas, Hector M. Cordero-Nieves, Robert S. Erbe, Jaclyn W. McAlees, Sumeena Bhatia, Richard J. Hodes, Kerry S. Campbell, and Virginia M. Sanders

737 A General Approach for Controlling Transcription and Probing Epigenetic Mechanisms: Application to the *Cd4* Locus
Mimi Wan, Ravinder Kaundal, Haichang Huang, Jiugang Zhao, Xiaojun Yang, Barbara H. Chaiyachati, Sicong Li, and Tian Chi

748 Fam65b Is a New Transcriptional Target of FOXO1 That Regulates RhoA Signaling for T Lymphocyte Migration
Pablo Rougerie, Quitterie Largeteau, Laura Megrelis, Florent Carrette, Thomas Lejeune, Lara Toffali, Barbara Rosi, Mabel Zeghouf, Jacqueline Cherfils, Gabriela Constantin, Carlo Laudanna, Georges Bismuth, Marianne Mangeney, and Jérôme Delon

756 The Histone Methyltransferase MMSET Regulates Class Switch Recombination
Huang Peng, Xiaoheng Wu, Tongzheng Liu, Kefei Yu, Diane F. Jelinek, and Zhenkun Lou

764 Cleaved/Associated TLR3 Represents the Primary Form of the Signaling Receptor
Florent Toscano, Yaron Esternes, François Virard, Alejandra Garcia-Cattaneo, Audrey Pierron, Beatrice Vanbervliet, Marc Bonnin, Michael J. Giancaneli, Shen-Ying Zhang, Kenji Funami, Tsukasa Seya, Misako Matsumoto, Jean-Jacques Pin, Jean-Laurent Casanova, Toufic Remo, and Serge Lebecque

MUCOSAL IMMUNOLOGY

774 Ecto-Nucleoside Triphosphate Diphosphohydrolase 7 Controls Th17 Cell Responses through Regulation of Luminal ATP in the Small Intestine

TUMOR IMMUNOLOGY

784 Divergence in CD19-Mediated Signaling Unfolds Intraclonal Diversity in Chronic Lymphocytic Leukemia, Which Correlates with Disease Progression
Yair Herishanu, Sigi Kay, Nili Dezorella, Shoshana Baron, Inbal Hazan-Hallevy, Ziv Porat, Sovtlaana Trestman, Chava Perry, Rony Braunstein, Varda Deutsch, Aaron Polliack, Elizabeth Naparstek, and Ben-Zion Katz
Increased Myeloid-Derived Suppressor Cells in Gastric Cancer Correlate with Cancer Stage and Plasma S100A8/A9 Proinflammatory Proteins
Linda Wang, Esther W. Y. Chang, Siew Cheng Wong, Siew-Min Ong, Debra Q. Y. Chong, and Khoon Lin Ling

Induced IL-17–Producing Invariant NKT Cells Require Activation in Presence of TGF-β and IL-1β
Marta Monteiro, Catarina F. Almeida, Ana Agua-Doce, and Luis Graca

The Key Role of IL-6–Arginase Cascade for Inducing Dendritic Cell–Dependent CD4+ T Cell Dysfunction in Tumor-Bearing Mice
Yoshinori Narita, Hidemitsu Kitamura, Daiko Wakita, Kentaro Sumida, Kazutaka Masuko, Satoshi Terada, Kiichiroh Nakano, and Takashi Nishimura

Receptor Activator for NF-κB Ligand in Acute Myeloid Leukemia: Expression, Function, and Modulation of NK Cell Immunosurveillance
Benjamin Joachim Schmiedel, Tina Nuebling, Julia Steinbacher, Alexandra Malinovska, Constantin Maximilian Wende, Miyuki Azuma, Pascal Schneider, Ludger Grosse-Hovest, and Helmut Rainer Salih

Cutaneous Tumors Cease CXCL9/Mig Production as a Result of IFN-γ–Mediated Immunoediting
Marianne Petro, Danielle Kish, Olga A. Guryanova, Galina Ilyinskaya, Anna Kondratova, Robert L. Fairchild, and Anton V. Gorbachev

AUTHOR INDEX