This information is current as of April 13, 2017.
IN THIS ISSUE

1387 c-MYC Manipulates Ag Presentation  See article p. 1434
Accidentally Augmenting Atherosclerosis  See article p. 1467
Placental Protection of the Fetus  See article p. 1534
Driving cGAS with IFN  See article p. 1545
Tim-1 Breg-ulates Inflammation  See article p. 1602
TAM Receptors Get the NOD(2)  See article p. 1928
TLR2 Tamps Down Chemotoxicity  See article p. 1983

BRIEF REVIEWS

1389 Fibroblastic Reticular Cells: Organization and Regulation of the T Lymphocyte Life Cycle
Flavian D. Brown and Shannon J. Turley

1395 B10 Cells: A Functionally Defined Regulatory B Cell Subset
Thomas F. Tedder

CUTTING EDGE

1403 Cutting Edge: DNase II Deficiency Prevents Activation of Autoreactive B Cells by Double-Stranded DNA Endogenous Ligands
Sudesh Pawaria, Krishna Moody, Patricia Busta, Kerstin Nündel, Chee-Ho Choi, Tariq Ghayur, and Ann Marshak-Rothstein

1408 Cutting Edge: Stage-Specific Requirement of IL-18 for Antiviral NK Cell Expansion
Sharline Madera and Joseph C. Sun

1413 Cutting Edge: The BTLA–HVEM Regulatory Pathway Interferes with Protective Immunity to Intestinal Helminth Infection
Minka Breloer, Wiebke Hartmann, Birte Blankenhaus, Marie-Luise Eschbach, Klaus Pfeffer, and Thomas Jacobs

ALLERGY AND OTHER HYPERSENSITIVITIES

1423 Neurturin Influences Inflammatory Responses and Airway Remodeling in Different Mouse Asthma Models
Marion Mauffray, Olivia Domingues, François Henges, Jacques Zimmer, Daniel Hanau, and Tatiana Michel

ANTIGEN RECOGNITION AND RESPONSES

1434 Elevation of c-MYC Disrupts HLA Class II–Mediated Immune Recognition of Human B Cell Tumors
Jason M. God, Christine Cameron, Janette Figueroa, Shereen Amrani, Azim Hossain, Bettina Kempkes, Georg W. Bornkamm, Robert K. Stuart, Janice S. Blum, and Azizul Haque

1446 Macronutrient Deprivation Modulates Antigen Trafficking and Immune Recognition through HSC70 Accessibility
Sarah N. Deffit and Janice S. Blum

AUTOIMMUNITY

1454 Selective Blockade of CD28-Mediated T Cell Costimulation Protects Rhesus Monkeys against Acute Fatal Experimental Autoimmune Encephalomyelitis
Krista G. Haanstra, Karin Dijkman, Noun Bashir, Jan Bauer, Caroline Mary, Nicolas Poirier, Paul Baker, Linda Scobie, Bert A. ’t Hart, and Bernard Vanhove

1467 IRF5 Deficiency Ameliorates Lupus but Promotes Atherosclerosis and Metabolic Dysfunction in a Mouse Model of Lupus-Associated Atherosclerosis

1480 JNK Regulatory Molecule G5PR Induces IgG Autoantibody–Producing Plasmablasts from Peritoneal B1a Cells
Masahiro Kitabatake, Miho Soma, Tianli Zhang, Kazuhiko Kuwahara, Yoshimi Fukushima, Takeya Nojima, Daisuke Kitamura, and Nobuo Sakaguchi

CLINICAL AND HUMAN IMMUNOLOGY

1514 Defective Selection of Thymic Regulatory T Cells Accompanies Autoimmunity and Pulmonary Infiltrates in Tcra–Deficient Mice Double Transgenic for Human La/Sjögren’s Syndrome-B and Human La-Specific TCR
Jane C. Yaciuk, Yujun Pan, Karen Schwarz, Zi-jian Pan, Jacen S. Maier-Moore, Stanley D. Kosanke, Christina Lawrence, and A. Darise Farris

IMMUNE REGULATION

1523 Duox1-Derived H2O2 Modulates Cxcl8 Expression and Neutrophil Recruitment via JNK/c-JUN/AP-1 Signaling and Chromatin Modifications
Sofia de Oliveira, Pierre Boudinot, Angelo Calado, and Victoriano Mulero

1534 The Human Fetal Placenta Promotes Tolerance against the Semiallogeneic Fetus by Inducing Regulatory T Cells and Homeostatic M2 Macrophages
Judit Svensson-Arvelund, Ratneel B. Mehta, Robert Lindau, Elodie Mirrasskhian, Heriberto Rodriguez-Martinez, Göran Berg, Gendie E. Laib, Maria C. Jenmalm, and Jan Ernerudh
1545 Positive Feedback Regulation of Type I IFN Production by the IFN-Inducible DNA Sensor cGAS
Feng Ma, Bing Li, Su-yang Liu, Shankar S. Iyer, Yongxin Yu, Aiping Wu, and Genhong Cheng

1555 A Novel Regulatory Macrophage Induced by a Helminth Molecule Instructs IL-10 in CD4+ T Cells
and Protects against Mucosal Inflammation
Thomas Ziegler, Sebastian Rausch, Svenja Steinfelder, Christian Klotz, Matthew R. Hepworth, Anja A. Kühl,
Paul-Christian Burda, Richard Lucius, and Susanne Hartmann

1565 Defining CD4 T Cell Memory by the Epigenetic Landscape of CpG DNA Methylation
H. Kiyomi Komori, Traver Hart, Sarah A. LaMere, Pamela V. Chew, and Daniel R. Salomon

1570 In Vivo 4-1BB Deficiency in Myeloid Cells Enhances Peripheral T Cell Proliferation by Increasing IL-15
Beom K. Choi, Young H. Kim, Don G. Lee, Ho S. Oh, Kwang H. Kim, Sang H. Park, Jinsun Lee, Dass S. Vinay,
and Byoung S. Kwon

1580 The D0 Ig-like Domain Plays a Central Role in the Stronger Binding of KIR3DL2 to B27 Free
H Chain Dimers
Hiroko Hatano, Jacqueline Shaw, Kaiitian Marquardt, Zhiyong Zhang, Laurent Gauthier, Stephanie Chanteux,
Benjamin Ross, Demin Li, Julie Mitchell, and Simon Kolberger

1591 Tim-1 Is Essential for Induction and Maintenance of IL-10 in Regulatory B Cells and Their Regulation of
Tissue Inflammation
Sheng Xiao, Craig R. Brooks, Raymond A. Sobel, and Vijay K. Kuchroo

1604 Recent Discoveries in the Study of Immune System Development

1610 PP6 Controls T Cell Development and Homeostasis by Negatively Regulating Distal TCR Signaling
Jian Ye, Hao Shi, Ye Shen, Chao Peng, Yan Liu, Chenyu Li, Kejing Deng, Jianguo Feng, Tian Xu,
Yuan Zhuang, Biao Zheng, and Wufan Tao

1615 ShcA Regulates Late Stages of T Cell Development and Peripheral CD4+ T Cell Numbers
Monica W. Buckley, Paul C. Trampont, Sanja Arandjelovic, Aaron M. Fond, Ignacio J. Juncadella,
and Kodi S. Ravichandran

1627 Heme Exporter FLVCR Is Required for T Cell Development and Peripheral Survival
Mary Philip, Scott A. Funkhouser, Edison Y. Chiu, Susan R. Phelps, Jeffrey J. Delrow, James Cox, Pamela J. Fink,
and Janis L. Abkowitz

1637 IMMUNOTHERAPY AND VACCINES

1646 Alternatively Spliced Myeloid Differentiation Protein-2 Inhibits TLR4-Mediated Lung Inflammation
Gantsetseg Tumurkhuu, Jargalsaikhan Dagvadorj, Heather D. Jones, Shuang Chen, Kenichi Shimada, Timothy R. Crother,
and Moshe Arditi
Bortezomib Reduces Pre-Existing Antibodies to Recombinant Immunotoxins in Mice
Michael L. Manning, Emily Mason-Osann, Masanori Onda, and Ira Pastan

A Nonhuman Primate Scrub Typhus Model: Protective Immune Responses Induced by pKarp47 DNA Vaccination in Cynomolgus Macaques

Vaccine Adjuvant MF59 Promotes Retention of Unprocessed Antigen in Lymph Node Macrophage Compartments and Follicular Dendritic Cells
Rocco Cantisani, Alfredo Pezzicoli, Rosella Cioncada, Carmine Malzone, Ennio De Gregorio, Ugo D’Oro, and Diego Piccioli

Memory T Cells Specific for Murine Cytomegalovirus Re-Emerge after Multiple Challenges and Recapitulate Immunity in Various Adoptive Transfer Scenarios
Michael Quinn, Holly Turula, Mayank Tandon, Berthony Desloches, Toktam Moghboli, and Christopher M. Snyder

The Inducible Costimulator Augments Tc17 Cell Responses to Self and Tumor Tissue

INFECTION DISEASE AND HOST RESPONSE

Cytotoxic Mediators in Paradoxical HIV–Tuberculosis Immune Reconstitution Inflammatory Syndrome

Protective Efficacy of Individual CD8+ T Cell Specificities in Chronic Viral Infection

Neutrophil IL-1β Processing Induced by Pneumolysin Is Mediated by the NLRP3/ASC Inflammasome and Caspase-1 Activation and Is Dependent on K+ Efflux

High-Mobility Group Box 1: A Novel Target for Treatment of Pseudomonas aeruginosa Keratitis
Sharon McClellan, Xiaoyu Jiang, Ronald Barrett, and Linda D. Hazlett

β-Defensin 1 Plays a Role in Acute Mucosal Defense against Candida albicans
Jeffrey Tomalka, Elahel Azzou, Hema P. Narra, Krunal Patel, Samantha O’Neill, Cisley Cardwell, Brian A. Hall, James M. Wilson, and Amy G. Hise

The Unappreciated Intracellular Lifestyle of Blastomyces dermatitidis
Alana K. Sterkel, Robert Mettelman, Marcel Wüthrich, and Bruce S. Klein

Deficiency of Antigen-Specific B Cells Results in Decreased Trypanosoma cruzi Systemic but Not Mucosal Immunity Due to CD8 T Cell Exhaustion
Nicole L. Sullivan, Christopher S. Eickhoff, John Sagartz, and Daniel F. Hoft

Evasion of Innate Cytosolic DNA Sensing by a Gammaherpesvirus Facilitates Establishment of Latent Infection
Chenglong Sun, Stefan A. Schattgen, Prapatpon Puiitkun, Joan P. Jorgensen, Adam T. Hilterbrand, Luca J. Wang, John A. West, Katharine Hansen, Kristy A. Horan, Martin R. Jakobsen, Peter O’Hare, Heiko Adler, Ben Sun, Hidde L. Ploegh, Blossom Damania, Jason W. Upton, Katherine A. Fitzgerald, and Soren R. Paludan
INNATE IMMUNITY AND INFLAMMATION

1832 PTEN Is a Negative Regulator of NK Cell Cytolytic Function

1841 Monitoring and Cell-Specific Deletion of C5aR1 Using a Novel Floxed GFP-C5aR1 Reporter Knock-in Mouse
Christian M. Karsten, Yves Laumonnier, Benjamin Eurich, Fanny Ender, Katharina Bröter, Sreeja Roy, Anna Czabanska, Tillman Vollbrandt, Julia Figge, and Jörg Köhl

1856 Antibody-Opsonized Bacteria Evoke an Inflammatory Dendritic Cell Phenotype and Polyfunctional TH Cells by Cross-Talk between TLRs and FcRs
Jantine E. Bakema, Cornelis W. Tuk, Sandra J. van Vliet, Sven C. Bruijn, Joost B. Vos, Sophia Lesiou, Christien D. Dijkstra, Yvette van Kooyk, Arjan B. Brenkman, and Marijolein van Egmond

1867 β-arrestin1 Is Critical for the Full Activation of NLRP3 and NLRC4 Inflammasomes
Kairui Mao, Shuzhen Chen, Yan Wang, Yan Zeng, Yonglei Ma, Yu Hu, Hong Zhang, Shubai Sun, Xiaodong Wu, Guangxun Meng, Gang Pei, and Bing Sun

1874 Loss of Mouse P2Y4 Nucleotide Receptor Protects against Myocardial Infarction through Endothelin-1 Downregulation
Michael Horckmans, Hrag Esfahani, Christophe Beauloye, Sophie Clouet, Larissa di Pietrantonio, Bernard Rohaye, Jean-Luc Balligand, Jean-Marie Boeynaems, Chantal Desy, and Didier Communi

1882 Porcine β-Defensin 2 Attenuates Inflammation and Mucosal Lesions in Dextran Sodium Sulfate–Induced Colitis
Feifei Han, Haiwen Zhang, Xi Xia, Haitao Xiong, Deguang Song, Xin Zong, and Yizhen Wang

1894 IRAK-M Promotes Alternative Macrophage Activation and Fibroproliferation in Bleomycin-Induced Lung Injury
Megan N. Ballinger, Michael W. Newstead, Xiaying Zeng, Urvashi Bhan, Xiaokui M. Mo, Steven L. Kunkel, Bethany B. Moore, Richard Flavell, John W. Christman, and Theodore J. Standiford

1905 Recombinant Thrombomodulin Inhibits Lipopolysaccharide-Induced Inflammatory Response by Blocking the Functions of CD14
Chih-Yuan Ma, Wei-En Chang, Guey-Yueh Shi, Bi-Ying Chang, Sheng-En Cheng, Yun-Tai Shih, and Hua-Lin Wu

1916 miR-24, miR-30b, and miR-142-3p Regulate Phagocytosis in Myeloid Inflammatory Cells
Afar Raza Naqvi, Jezrom B. Fordham, and Salvador Nares

1928 TAM Receptor–Dependent Regulation of SOCS3 and MAPKs Contributes to Proinflammatory Cytokine Downregulation following Chronic NOD2 Stimulation of Human Macrophages
Shasha Zheng, Matija Hedl, and Clara Abraham

1938 A RIPK3–Caspase 8 Complex Mediates Atypical Pro–IL-1β Processing
Kenta Moriwaki, John Bertin, Peter J. Gough, and Francis Ka-Ming Chan

1945 Acquisition of Activation Receptor Ligand by Trogocytosis Renders NK Cells Hyporesponsive
Catrine A. Miner, Tuitar K. Giri, Claire E. Meyer, Mark Shabovich, and Sandeep K. Tripathy

1954 Activation-Specific Metabolic Requirements for NK Cell IFN-γ Production
Molly P. Keppler, Nermina Saucier, Annelise Y. Mah, Tiphanie P. Vogel, and Megan A. Cooper

MOLECULAR AND STRUCTURAL IMMUNOLOGY

1963 NFAT1 and JunB Cooperatively Regulate IL-31 Gene Expression in CD4+ T Cells in Health and Disease
Ji Sun Huang, Gi-Cheon Kim, EunBee Park, Jung-Eun Kim, Chang-Suk Chae, Won Huang, Changhon Lee, Sung-Min Huang, Hui Sun Wang, Chang-Duk Jun, Dipayan Rudra, and Sin-Hyeg Im
1975 Unique Ligand-Binding Property of the Human IgM Fc Receptor
Kazuhito Honjo, Yoshiki Kubagawa, John F. Kearney, and Hiromi Kubagawa

MUCOSAL IMMUNOLOGY

1983 TLR Signaling Modulates Side Effects of Anticancer Therapy in the Small Intestine
Magdalena Frank, Eva Maria Hennenberg, Annette Eyking, Michael Runzi, Guido Gerken, Paul Scott, Julian Parkhill, Alan W. Walker, and Elke Cario

TRANSPLANTATION

1996 Transplanted Bone Marrow–Derived Circulating PDGFRα+ Cells Restore Type VII Collagen in Recessive Dystrophic Epidermolysis Bullosa Mouse Skin Graft
Shin Iinuma, Eriko Aikawa, Katsuto Tamai, Ryo Fujita, Yasushi Kikuchi, Takenao Chino, Junichi Kikuta, John A. McGrath, Jouni Uitto, Masaru Ishii, Hajime Iizuka, and Yasufumi Kaneda

TUMOR IMMUNOLOGY

2004 Cancer-Associated Oxidoreductase ERO1-α Drives the Production of Tumor-Promoting Myeloid-Derived Suppressor Cells via Oxidative Protein Folding
Tsutomu Tanaka, Toshimitsu Kajiwara, Toshihiko Torigoe, Yoshiharu Okamoto, Noriyuki Sato, and Yasuaki Tamura

2011 Alkylating Agent Melphalan Augments the Efficacy of Adoptive Immunotherapy Using Tumor-Specific CD4+ T Cells
Xiaoyun Lu, Zhi-Chun Ding, Yang Cao, Chufeng Liu, Tsadik Habtetsion, Miao Yu, Henrique Lemos, Huda Salman, Hongyan Xu, Andrew L. Mellor, and Gang Zhou

NOVEL IMMUNOLOGICAL METHODS

2022 Barcoding of Live Human Peripheral Blood Mononuclear Cells for Multiplexed Mass Cytometry
Henrik E. Mei, Michael D. Leipold, Axel Ronald Schulz, Cariad Chester, and Holden T. Maecker

CORRECTIONS

2032 Correction: A238L Inhibits NF-ATc2, NF-κB, and c-Jun Activation through a Novel Mechanism Involving Protein Kinase C-θ-Mediated Up-Regulation of the Amino-Terminal Transactivation Domain of p300
Aitor G. Granja, Neil D. Perkins, and Yolanda Revilla

2033 Correction: Dual Function of CD70 in Viral Infection: Modulator of Early Cytokine Responses and Activator of Adaptive Responses
Atef Allam, Melissa Swiecki, William Verni, Jonathan D. Ashwell, and Marco Colonna

2034 AUTHOR INDEX