This information is current as of May 1, 2017.
6677  IN THIS ISSUE

BRIEF REVIEWS

6679  Mechanisms of Immunity in Hydatid Disease: Implications for Vaccine Development
Wenbao Zhang, Allen G. Ross, and Donald P. McManus

CUTTING EDGE

6687  Cutting Edge: Experimentally Induced Immune Activation in Natural Hosts of Simian Immunodeficiency Virus Induces Significant Increases in Viral Replication and CD4+ T Cell Depletion
Ivona Pandrea, Thaidra Gaufin, Jason M. Brenchley, Rajeev Gautam, Christopher Monjure, Aarti Gautam, Clint Coleman, Andrew A. Lackner, Ray M. Ribeiro, Daniel C. Douek, and Cristian Apetrei

6692  Cutting Edge: Eosinophils Do Not Contribute to Respiratory Syncytial Virus Vaccine-Enhanced Disease
Elaine M. Castilow, Kevin L. Legge, and Steven M. Varga

6697  Cutting Edge: Helminth Infection Induces IgE in the Absence of μ- or δ-Chain Expression
Georgia Perona-Wright, Kazja Mohrs, Justin Taylor, Colby Zaph, David Artis, Edward J. Pearce, and Markus Mohrs

6702  Cutting Edge: FimH Adhesin of Type 1 Fimbriae Is a Novel TLR4 Ligand
Karen L. Moisman, M. Firoz Mian, Nicole M. Lauzon, Carlton L. Gyles, Brian Lichty, Randy Mackenzie, Navkiran Gill, and Ali A. Ashkar

6707  Cutting Edge: Programmed Death-1/Programmed Death Ligand 1 Interaction Regulates the Induction and Maintenance of Invariant NKT Cell Anergy
Woo-Sung Chang, Ji-Yeon Kim, Yeon-Jeong Kim, Yun-Sun Kim, Jung-Mi Lee, Miyuki Azuma, Hideo Yagita, and Chang-Yuil Kang

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

6711  Interaction of Monocytes with NK Cells upon Toll-Like Receptor-Induced Expression of the NKG2D Ligand MICA

TLR Ligands in the Local Treatment of Established Intracerebral Murine Gliomas
Oliver M. Grauer, Johan W. Molling, Erik Bennink, Liza W. J. Toonen, Roger P. M. Sutmuller, Stefan Nierkens, and Gosse J. Adema

Lipopolysaccharide-Induced Expression of NAD(P)H:Quinone Oxidoreductase 1 and Heme Oxygenase-1 Protects against Excessive Inflammatory Responses in Human Monocytes
Stuart A. Rushworth, David J. MacEwan, and Maria A. O'Connell

The Common γ-Chain Cytokines IL-2, IL-7, IL-15, and IL-21 Induce the Expression of Programmed Death-1 and Its Ligands
Audrey L. Kinter, Emily J. Godbout, Jonathan P. McNally, Irini Sereti, Gregg A. Roby, Marie A. O'Shea, and Anthony S. Fauci

Aging Impairs IFN Regulatory Factor 7 Up-Regulation in Plasmacytoid Dendritic Cells during TLR9 Activation
Heather W. Stout-Delgado, Xin Yang, Wendy E. Walker, Bethany M. Teas, and Daniel R. Goldstein

Reversible Blockade of Thymic Output: An Inherent Part of TLR Ligand-Mediated Immune Response
Thomas Démoulinis, Ali Abdallah, Nadia Kettag, Marie-Laurence Baron, Casimiro Gerarduzzi, Dominique Gauchat, Sophie Gratton, and Rafick-Pierre Sékaly

Adaptable TCR Avidity Thresholds for Negative Selection
Milica Stojakovic, Laura I. Salazar-Fontana, Zohreh Tatar-Calderone, Vladimir P. Badovinac, Fabio R. Santori, Damian Kovalovský, Derek Sant'Angelo, John T. Harty, and Stanislav Vukmanovic

Regulatory Roles for NKT Cell Ligands in Environmentally Induced Autoimmunity
Jaya Vas, Jochen Mattner, Stewart Richardson, Rachel Ndonye, John P. Gaughan, Amy Howell, and Marc Monestier

Enhanced Early Expansion and Maturation of Semi-Invariant NK T Cells Inhibited Autoimmune Pathogenesis in Congenic Nonobese Diabetic Mice
Aito Ueno, Jiansong Wang, Lu Cheng, Jin S. Im, Yan Shi, Steven A. Porcelli, and Yang Yang

IFN-β Production by TLR4-Stimulated Innate Immune Cells Is Negatively Regulated by GSK3-β
Huizhi Wang, Carlos A. Garcia, Kunal Rehani, Caglar Cekic, Pascale Alard, Denis F. Kinane, Thomas Mitchell, and Michael Martin

Ion Channels Modulating Mouse Dendritic Cell Functions
Nicole Matzner, Irina M. Zemtsova, Nguyen Thi Xuan, Michael Duszenko, Ekaterina Shumilina, and Florian Lang

Caspase-6 Regulates B Cell Activation and Differentiation into Plasma Cells
Chie Watanabe, Geraldine L. Shu, Timothy S. Zheng, Richard A. Flavell, and Edward A. Clark

The Host Environment Regulates the Function of CD8+ Graft-versus-Host-Reactive Effector Cells
Ronjon Chakraverty, Barry Flatter, Farnaz Fadlah-Arani, Hyewon-Sook Eom, Terry Means, Giovanna Andreola, Sebastian Schwarte, Jennifer Buchli, Pete Cotter, Guiling Zhao, and Megan Sykes

Experimental Antibody Therapy of Liver Metastases Reveals Functional Redundancy between FcγRI and FcγRIV
Marielle A. Otten, Gerben J. van der Bij, Sjef J. Verbeek, Falk Nimmerjahn, Jeffrey V. Ravetch, Robert H. J. Beelen, Jan G. J. van de Winkel, and Marie-Joëlle van Egemond

IL-21 Stimulates Human Myeloma Cell Growth through an Autocrine IGF-1 Loop
Emmanuelle Ménoret, Sophie Maïga, Géraldine Descamps, Catherine Pellat-Decueneïs, Caroline Fraslon, Melania Cappellano, Philippe Moreau, Réggie Bataille, and Martine Amiot

MHC Variant Peptide-Mediated Anergy of Encephalitogenic T Cells Requires SHP-1
Heather A. Wasserman, Carrie D. Beal, Yan Zhang, Ning Jiang, Cheng Zhu, and Brian D. Evavold

Polyasialic Acid, a Glycan with Highly Restricted Expression, Is Found on Human and Murine Leukocytes and Modulates Immune Responses
Tetraspanins Regulate ADAM10-Mediated Cleavage of TNF-α and Epidermal Growth Factor
Cécile Arduise, Toufik Abache, Lei Li, Martine Billard, Aurélie Chabanon, Andreas Ludwig, Philippe Mauduit, Claude Bouchex, Eric Rubinstein, and François Le Naour

Thymocyte-Dendritic Cell Interactions near Sources of CCR7 Ligands in the Thymic Cortex
Ena Ladi, Tanja A. Schwickert, Tatjana Otsanova, Ying Chen, Paul Herzmark, Xinye Yin, Holly Aaron, Shiao Wei Chan, Martin Lipp, Badrinath Royam, and Ellen A. Robey

MOLECULAR AND STRUCTURAL IMMUNOLOGY

A Novel C1q Family Member of Amphioxus Was Revealed to Have a Partial Function of Vertebrate C1q Molecule
Yanhong Yu, Huiping Huang, Yan Wang, Yingcai Yu, Shaochun Yuan, Shengfeng Huang, Mingming Pan, Kaisia Feng, and Anlong Xu

CD45 Down-Regulates Lck-Mediated CD44 Signaling and Modulates Actin Rearrangement in T Cells

Hyaluronan Induces Cell Death in Activated T Cells through CD44
Brian Ruffell and Pauline Johnson

Negative Regulation of TCR Signaling by Linker for Activation of X Cells via Phosphotyrosine-Dependent and -Independent Mechanisms
Michael J. Shapiro, Chau T. Nguyen, Haig Aghajanian, Weiguo Zhang, and Virginia Smith Shapiro

Processing of an Antigenic Sequence from IgG Constant Domains for Presentation by MHC Class II
Morten Flohakk, Ingunn B. Rasmussen, Elin Lunde, Terje Frigstad, Göran Berntsen, Terje E. Michaelsen, Bjarne Bogen, and Inger Sandlie

IMMUNOGENETICS

NKG2D-RAE-1 Receptor-Ligand Variation Does Not Account for the NK Cell Defect in Nonobese Diabetic Mice
Lisa M. Maier, Sarah K. Howlett, Kara M. Rainbow, Jan Clark, Joanna M. M. Howson, John A. Todd, and Linda S. Wicker

HOST DEFENSE

Induction of TRAIL- and TNF-α-Dependent Apoptosis in Human Monocyte-Derived Dendritic Cells by Microfilariae of Brugia malayi
Roshank Tolouei Semnani, Priyanka Goel Venugopal, Lily Mahapatra, Jason A. Skinner, Francoise Meylan, Daniel Chien, David W. Dorward, Damien Chausabel, Richard M. Siegel, and Thomas B. Nutman

Respiratory Epithelial Cells Convert Inactive Vitamin D to Its Active Form: Potential Effects on Host Defense
Sif Hansdottir, Martha M. Monick, Sara L. Hinde, Nina Lovan, Dwight C. Look, and Gary W. Hunninghake

Aspergillus Conidia Activate the Complement by the Mannan-Binding Lectin C2 Bypass Mechanism
Chantal Dumestre-Pérard, Bertrand Lamy, Delphine Aldebert, Catherine Lemaire-Vieille, Renée Grillot, Jean-Paul Brion, Jean Gagnon, and Jean-Yves Cesbron

Histoplasma capsulatum Cyclophilin A Mediates Attachment to Dendritic Cell VLA-5
Francisco J. Gomez, Robyn Pilcher-Roberts, Arash Alborzi, and Simon L. Newman

IL-15 Links TLR2/1-Induced Macrophage Differentiation to the Vitamin D-Dependent Antimicrobial Pathway
Stephan R. Krutzik, Martin Hewison, Philip T. Liu, Juan Antonio Robles, Steffen Stenger, John S. Adams, and Robert L. Modlin

A Novel Role for Neutrophils As Critical Activators of NK Cells
Roman Spörri, Nicole Joller, Hubert Hilbi, and Annette Oxenius

TNF-α Is a Positive Regulatory Factor for Human Vγ2Vδ2 T Cells
Haishan Li, Kun Luo, and C. David Pauza
7138 Species-Specific Interaction of Streptococcus pneumoniae with Human Complement Factor H
Ling Lu, Zhuo Ma, T. Sakari Jokiranta, Adeline R. Whitney, Frank R. DeLeo, and Jing-Ren Zhang

7147 Role of Human CD36 in Bacterial Recognition, Phagocytosis, and Pathogen-Induced JNK-Mediated Signaling
Irina N. Baranova, Roger Kurlander, Alexander V. Bocharov, Tatyana G. Vishnyakova, Zhigang Chen, Alan T. Remaley, Gyorgy Csako, Amy P. Patterson, and Thomas L. Eggerman

7157 NOD2-Deficient Mice Have Impaired Resistance to Mycobacterium tuberculosis Infection through Defective Innate and Adaptive Immunity
Maziar Divangahi, Serge Mostowy, François Coulombe, Robert Kozak, Loïc Guillot, Frédéric Veyrier, Koichi S. Kobayashi, Richard A. Flavell, Philippe Gros, and Marcel A. Behr

7166 The ESX-5 Secretion System of Mycobacterium marinum Modulates the Macrophage Response
Abdallah M. Abdallah, Nigel D. L. Savage, Maaike van Zon, Louis Wilson, Christina M. J. E. Vandenbroucke-Grauls, Nicole N. van der Wel, Tom H. M. Ottenhoff, and Wilbert Bitter

INFLAMMATION

7176 TLR/MyD88 and Liver X Receptor α Signaling Pathways Reciprocally Control Chlamydia pneumoniae-Induced Acceleration of Atherosclerosis

7186 Chlamydia pneumoniae-Induced Foam Cell Formation Requires MyD88-Dependent and -Independent Signaling and Is Reciprocally Modulated by Liver X Receptor Activation
Shuang Chen, Rosalinda Sorrentino, Kenichi Shimada, Yonca Bulut, Terence M. Doherty, Timothy R. Crother, and Moshe Arditı

7194 Macrophage Antigen Complex-1 Mediates Reactive Microgliosis and Progressive Dopaminergic Neurodegeneration in the MPTP Model of Parkinson’s Disease
Xiaoming Hu, Dan Zhang, Hao Pang, W. Michael Caudle, Yachen Li, Huiming Gao, Yunxin Liu, Li Qian, Belinda Wilson, Donato A. Di Monte, Syed F. Ali, Jing Zhang, Michelle L. Block, and Jau-Shyong Hong

7205 Phenotype Switching by Inflammation-Inducing Polarized Th17 Cells, but Not by Th1 Cells
Guangyu Shi, Catherine A. Cox, Barbara P. Vistica, Cuiyan Tan, Eric F. Waurousek, and Igal Gery

7214 IL-10 and TGF-β Redundantly Protect against Severe Liver Injury and Mortality during Acute Schistosomiasis
De’Brooki R. Herbert, Tatyana Orekov, Charles Perkins, and Fred D. Finkelman

7221 CD4+CD25+ Foxp3+ Regulatory T Cells Protect against T Cell-Mediated Fulminant Hepatitis in a TGF-β-Dependent Manner in Mice
Hua-Xing Wei, Ya-Hui Chuang, Bofeng Li, Haining Wei, Rui Sun, Yuki Moritoki, M. Eric Gershwin, Zhe-Xiong Lian, and Zhigang Tian

7230 Dendritic Cells Genetically Engineered to Express IL-10 Induce Long-Lasting Antigen-Specific Tolerance in Experimental Asthma

7243 Mechanisms of Oncostatin M-Induced Pulmonary Inflammation and Fibrosis
Afshan Mazaffarian, Avery W. Breuer, Esther S. Trueblood, Irina G. Luzina, Nevins W. Todd, Sergei P. Atamas, and Heather A. Arnett

7254 Fibrillar Amyloid-β Peptides Activate Microglia via TLR2: Implications for Alzheimer’s Disease
Malabendu Jana, Carlos A. Palencia, and Kalipada Pahan

7263 TGF-β1 Attenuates Mediator Release and De Novo Kit Expression by Human Skin Mast Cells through a Smad-Dependent Pathway
Wei Zhao, Gregorio Gomez, Shao-Hua Yu, John J. Ryan, and Lawrence B. Schwartz
CLINICAL IMMUNOLOGY

7350 The Effector T Cells of Diabetic Subjects Are Resistant to Regulation via CD4+FOXP3+ Regulatory T Cells
Anyta Schneider, Mary Rieck, Srinath Sanda, Catherine Pihoker, Carla Greenbaum, and Jane H. Buckner

7356 Measles Virus Infection in Adults Induces Production of IL-10 and Is Associated with Increased CD4+CD25+ Regulatory T Cells
Xue-lian Yu, Yu-ming Cheng, Bi-zhen Shi, Fang-xing Qian, Feng-bin Wang, Xi-nian Liu, Hai-ying Yang, Qing-nian Xu, Tang-kai Qi, Li-jun Zha, Zheng-hong Yuan, and Reena Ghildyal

7367 Sunlight Triggers Cutaneous Lupus through a CSF-1-Dependent Mechanism in MRL-Fas−/− Mice

7380 Breaking of CD8+ T Cell Tolerance through In Vivo Ligation of CD40 Results in Inhibition of Chronic Graft-versus-Host Disease and Complete Donor Cell Engraftment
Juyang Kim, Keunhee Park, Hyun J. Kim, Jiyoung Kim, Hyun-A Kim, Daehye Jung, Hye J. Kim, Hye-Jeong Choi, Suk-Young Choi, Kwang W. Seo, Hong R. Cho, and Byunguk Kwon

7390 Intestinal Macrophage/Epithelial Cell-Derived CCL11/Eotaxin-1 Mediates Eosinophil Recruitment and Function in Pediatric Ulcerative Colitis
Telomerase-Based Pharmacologic Enhancement of Antiviral Function of Human CD8+ T Lymphocytes
Steven Russell Fauce, Beth D. Jamieson, Allison C. Chin, Ronald T. Mitsuyasu, Stan T. Parish, Hwee L. Ng,
Christina M. Ramirez Kitchen, Otto O. Yang, Calvin B. Harley, and Rita B. Effros

Multiple Glycines in TCR α-Chains Determine Clonally Diverse Nature of Human T Cell Memory to
Influenza A Virus
Yuri N. Naumov, Elena N. Naumova, Maryam B. Yassai, Kalyani Kota, Raymond M. Welsh, and Liisa K. Selin

Low Expression of the IL-23/Th17 Pathway in Atopic Dermatitis Compared to Psoriasis
Emma Guttman-Yassky, Michelle A. Lowes, Judilyn Fuentes-Duculan, Lisa C. Zaba, Irma Cardinale, Kristine E. Nogales,
Artemis Khatcherian, Inna Novitskaya, John A. Carucci, Reuven Bergman, and James G. Krueger

CORRECTIONS

AUTHOR INDEX