IN THIS ISSUE

LETTERS TO THE EDITOR

3907 Comment on “The Inhibiting Fc Receptor for IgG, FcγRIIB, Is a Modifier of Autoimmune Susceptibility”
Divaker Choubey, Ravichandran Panchanathan, and Hongzhu Liu

3909 Response to Comment on “The Inhibiting Fc Receptor for IgG, FcγRIIB, Is a Modifier of Autoimmune Susceptibility”
Sjef Verbeek, Peter Boross, and Shozo Izui

BRIEF REVIEWS

3911 MicroRNAs Regulate Dendritic Cell Differentiation and Function
Marian L. Turner, Frauke M. Schnorfeil, and Thomas Brocker

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

3919 High Clonality of Virus-Specific T Lymphocytes Defined by TCR Usage in the Brains of Mice Infected with West Nile Virus
Kazutaka Kitaura, Yoshiki Fujii, Daisuke Hayasaka, Takaji Matsutani, Kenji Shirai, Noriyo Nagata, Chang-Kweng Lim, Satoshi Suzuki, Tomohiko Takasaki, Ryuji Suzuki, and Ichiro Kurane

Michel Jourdan, Anouk Caraux, Germaine Caron, Nicolas Robert, Geneviève Fiol, Thierry Rêne, Karine Bolloré, Jean-Pierre Vendrell, Simon Le Gallou, Frédéric Maurin, John De Vos, Aloukadel Kasambara, Christophe Duperray, Dirk Hose, Thierry Fest, Karin Tarte, and Bernard Klein

3942 Impaired B Cell Development and Function in the Absence of IkBNS
Maki Touma, Derin B. Keskin, Fumiko Shiroki, Ibuki Saito, Shigeo Koyasu, Ellis L. Reinherz, and Linda K. Clayton

Autophagy-Mediated Dendritic Cell Activation Is Essential for Innate Cytokine Production and APC Function with Respiratory Syncytial Virus Responses
Susan Morris, Michele S. Swanson, Andrew Lieberman, Michelle Reed, Zhenyu Yue, Dennis M. Lindell, and Nicholas W. Lukacs

Functional Conservation and Innovation of Amphioxus RIP1-Mediated Signaling in Cell Fate Determination
Jun Li, Shaochun Yuan, Lin Qi, Shengfeng Huang, Guangrui Huang, Manyi Yang, Liqun Xu, Yusin Li, Renwei Zhang, Yingcai Yu, Shangwu Chen, and Anlong Xu

The Adaptor Protein Bam32 in Human Dendritic Cells Participates in the Regulation of MHC Class I-Induced CD8+ T Cell Activation
Daniela Ortner, Daniela Grabher, Martin Hermann, Elisabeth Kremmer, Susanne Hofer, and Christine Heufler

T Cell Dynamics during Induction of Tolerance and Suppression of Experimental Allergic Encephalomyelitis
Rohit D. Divekar, Cara L. Haymaker, Jason A. Cascio, Betul F. Guloglu, Jason S. Ellis, Danielle M. Tartar, Christine M. Hoeman, Craig L. Franklin, Bernd H. Zinselmeyer, Jennifer N. Lynch, Mark J. Miller, and Habib Zaghouani

Myeloma-Induced Alloreactive T Cells Arising in Myeloma-Infiltrated Bones Include Double-Positive CD8+CD4+ T Cells: Evidence from Myeloma-Bearing Mouse Model
Lisa M. Freeman, Alfred Lam, Eugene Petcu, Robert Smith, Ali Salajegheh, Peter Diamond, Andrew Zanettino, Andreas Evdokiou, John Luff, Pooi-Fong Wong, Dalila Khalil, Nigel Waterhouse, Frank Vari, Alison M. Rice, Lawrence Catley, Derek N. J. Hart, and Slavica Vuckovic

Primary Vascularization of the Graft Determines the Immunodominance of Murine Minor H Antigens during Organ Transplantation
Jean Kwun, Subramaniam Malarkannan, William J. Burlingham, and Stuart J. Knechtle

TLR2-Mediated Production of IL-27 and Chemokines by Respiratory Epithelial Cells Promotes Bleomycin-Induced Pulmonary Fibrosis in Mice
Hye Sung Kim, Hounjeong Go, Shizuo Akira, and Doo Hyun Chung

Immunotherapy with Costimulatory Dendritic Cells To Control Autoimmune Inflammation
Brendan J. O’Sullivan, Sarapna Pai, Shanyu Street, Xiaoyu An, Kelli P. A. MacDonald, Michele Wong, Geoffrey Strutton, Steve Gerondakos, Raymond J. Steptoe, Barbara Fazekat de St. Groth, Geoffrey R. Hill, and Ranjeny Thomas

Hypoxia-Dependent Inhibition of Tumor Cell Susceptibility to CTL-Mediated Lysis Involves NANOG Induction in Target Cells
Meriem Hasnim, Muhammad Zaeem Noman, Jessica Lauriol, Houssen Benlalam, Aude Mallavialle, Filippo Roselli, Fathia Mami-Chouaib, Catherine Alcaide-Loridan, and Salem Chouaib

TOSO, the Fcε Receptor, Is Highly Expressed on Chronic Lymphocytic Leukemia B Cells, Internalizes upon IgM Binding, Shuttles to the Lysosome, and Is Downregulated in Response to TLR Activation
Bérengère Vire, Alexandre David, and Adrian Wiestner

Intestinal Epithelial Cells Modulate CD4 T Cell Responses via the Thymus Leukemia Antigen
Danysviel Olivares-Villagómez, Holly M. Scott Algood, Kshipra Singh, Vrajesh V. Parekh, Kaitlyn E. Ryan, M. Blanca Piazuelo, Keith T. Wilson, and Luc Van Kaer

Regulatory T Cells in Patients with Whipple’s Disease
Katina Schinnerling, Verena Moos, Anika Greilhaar, Kristina Allers, Christoph Loddenkemper, Julian Friebel, Kristina Conrad, Anja A. Kühl, Ulrike Erben, and Thomas Schneider

Increased Numbers of Preexisting Memory CD8 T Cells and Decreased T-bet Expression Can Restrain Terminal Differentiation of Secondary Effector and Memory CD8 T Cells
Nikhil S. Joshi, Weiguo Cui, Claudia X. Dominguez, Jonathan H. Chen, Timothy W. Hand, and Susan M. Kaech
Human TCR Transgenic Bet v 1-Specific Th1 Cells Suppress the Effector Function of Bet v 1-Specific Th2 Cells
Alina Neunkirchner, Victoria M. Leb-Reichl, Klaus G. Schmetterer, Sonja Mutschlechner, Hans J. Kaeng, Daniela Haiderer, Karina Schuch, Michael Wallner, Beatrice Jahn-Schmid, Barbara Bohle, and Winfried F. Pickl

Pathogenic Nematodes Suppress Humoral Responses to Third-Party Antigens In Vivo by IL-10–Mediated Interference with Th Cell Function
Wiebke Hartmann, Irina Haben, Bernhard Fleischer, and Minka Breloer

Selective Resistance of CD44hi T Cells to p53-Dependent Cell Death Results in Persistence of Immunologic Memory after Total Body Irradiation
Zhenyu Yao, Jennifer Jones, Holbrook Kohrt, and Samuel Strober

Chronic Chemoimmunotherapy Achieves Cure of Spontaneous Murine Mammary Tumors via Persistent Blockade of Posttherapy Counter-Regulation
Rachael B. Rowswell-Turner, Jamie L. Harden, Raji E. Nair, Tao Gu, Mehmet O. Kilinc, and Nejat K. Egilmez

B Cell-Derived IL-15 Enhances CD8 T Cell Cytotoxicity and Is Increased in Multiple Sclerosis Patients
Raphael Schneider, Alma Nazlie Mohebiany, Igal Ifergan, Diane Beauseigle, Pierre Duquette, Alexandre Prat, and Nathalie Arbour

Wnt5a Skews Dendritic Cell Differentiation to an Unconventional Phenotype with Tolerogenic Features
Jaris Valencia, Carmen Hernández-López, Víctor G. Martínez, Laura Hidalgo, Agustín G. Zapata, Ángeles Vicente, Alberto Varas, and Rosa Sacedón

Ginger Phenylpropanoids Inhibit IL-1β and Prostanoid Secretion and Disrupt Arachidonate-Phospholipid Remodeling by Targeting Phospholipases A2
Andreas Nievergelt, Janine Marazzi, Roland Schoop, Karl-Heinz Altman, and Jürg Gertsch

TLR Agonists Downregulate H2-O in CD8α- Dendritic Cells
Gavin W. Porter, Woelung Yi, and Lisa K. Densin

Peroxisome Proliferator-Activated Receptor γ Is Required for CD4+ T Cell-Mediated Lymphopenia-Associated Autoimmunity
William J. Housley, Catherine O. Adams, Amanda G. Vang, Stefan Brocke, Frank C. Nichols, Melissa LaCombe, Thiruchandurai V. Rajan, and Robert B. Clark

A New Look at Immune Privilege of the Eye: Dual Role for the Vision-Related Molecule Retinoic Acid
Ru Zhou, Reiko Horai, Mary J. Mattapallil, and Rachel R. Caspi

Retinal Self-Antigen Induces a Predominantly Th1 Effector Response in Axl and Mertk Double-Knockout Mice
Fei Ye, Lixia Han, Qingjun Lu, Wanwei Dong, Zhenwen Chen, Hui Shao, Henry J. Kaplan, Qiutang Li, and Qingxian Lu

The Liver Kinase B1 Is a Central Regulator of T Cell Development, Activation, and Metabolism
Nancie J. MacIver, Julianna Blagih, Donte C. Saucillo, Luciana Tonelli, Takla Griss, Jeffrey C. Rathmell, and Russell G. Jones

Anti-CD180 (RP105) Activates B Cells To Rapidly Produce Polyclonal Ig via a T Cell and MyD88-Independent Pathway
Jay W. Chaplin, Shinji Kasahara, Edward A. Clark, and Jeffrey A. Ledbetter

IL-21–Dependent B Cell Death Driven by Prostaglandin E2, a Product Secreted from Follicular Dendritic Cells
Maasaki Magari, Yumiko Nishikawa, Yasumasa Fujii, Yumi Nishio, Koji Watanabe, Michiya Fujiwara, Naoki Kanayama, and Hitoshi Ohmori

IL-17–Dependent, IFN-γ–Independent Tumor Rejection Is Mediated by Cytotoxic T Lymphocytes and Occurs at Extraocular Sites, but Is Excluded from the Eye
Terry G. Coursey, Peter W. Chen, and Jerry Y. Niederkorn
Molecular and Structural Immunology

Limits for Antibody Affinity Maturation and Repertoire Diversification in Hypervaccinated Humans
Tine Rugh Poulsen, Allan Jensen, John S. Haurum, and Peter S. Andersen

Cohesin Regulates MHC Class II Genes through Interactions with MHC Class II Insulators
Parimal Majumder and Jeremy M. Boss

Host Defense

Th17 Cytokines Are Critical for Respiratory Syncytial Virus-Associated Airway Hyperreponsiveness through Regulation by Complement C3a and Tachykinins
Monali M. Bera, Bao Lu, Thomas R. Martin, Shun Cui, Lawrence M. Rhein, Craig Gerard, and Norma P. Gerard

Ecto-5’-Nucleotidase (CD73) Decreases Mortality and Organ Injury in Sepsis

Insights into HLA-Restricted T Cell Responses in a Novel Mouse Model of Dengue Virus Infection Point toward New Implications for Vaccine Design
Daniela Weiskopf, Lauren E. Yauch, Michael A. Angelo, Daisy V. John, Jason A. Greenbaum, John Sidney, Ravi V. Kolla, Aruna D. De Silva, Aravinda M. de Silva, Howard Grey, Bjorn Peters, Sujan Shresta, and Alessandro Sette

Control of Pathogenic CD4 T Cells and Lethal Immunopathology by Signaling Immunoadaptor DAP12 during Influenza Infection
Sarah McCormick, Christopher R. Shaler, Cherrise-Lee Small, Carly Horvath, Daniela Damjanovic, Earl G. Brown, Naoko Aoki, Toshiyuki Takai, and Zhou Xing

Increased Susceptibility of ST2-Deficient Mice to Polymicrobial Sepsis Is Associated with an Impaired Bactericidal Function
Juliette M. Buckley, Jing Hua Liu, Chong Hui Li, Siobhan Blankson, Qiong Di Wu, Yong Jiang, H. Paul Redmond, and Jiang Huai Wang

Constitutive and Inflammation-Dependent Antimicrobial Peptides Produced by Epithelium Are Differentially Processed and Inactivated by the Commensal Finegoldia magna and the Pathogen Streptococcus pyogenes
Inga-Maria Frick, Sara L. Nordin, Maria Baumgarten, Matthias Mörgelin, Ole E. Sorensen, Anders I. Olin, and Arne Egesten

Inflammation

Liposomal Encapsulation of Glucocorticoids Alters Their Mode of Action in the Treatment of Experimental Autoimmune Encephalomyelitis
Nils Schweingruber, Axel Haine, Karsten Tiede, Anna Karabinskaya, Jens van den Brandt, Simone Wüst, Joebert M. Metselaar, Ralf Gold, Jan P. Tuckermann, Holger M. Reichardt, and Fred Lühder

Deletion of Syk in Neutrophils Prevents Immune Complex Arthritis
Emily R. Elliott, Jessica A. Van Ziffle, Patrizia Scapini, Brandon M. Sullivan, Richard M. Locksley, and Clifford A. Lowell

Myeloid Differentiation Factor-2 Interacts with Lyn Kinase and Is Tyrosine Phosphorylated Following Lipopolysaccharide-Induced Activation of the TLR4 Signaling Pathway
Pearl Gray, Jargalsaikhan Dagvadorj, Kathrin S. Michelsen, Constantinos Brkos, Alan Rentendorf, Terrence Town, Timothy R. Crother, and Moshe Arditi

Sensitization to Gliadin Induces Moderate Enteropathy and Insulitis in Nonobese Diabetic-DQ8 Mice
Heather J. Galipeau, Nestor E. Rulli, Jennifer Jury, Xianxi Huang, Romina Araya, Joseph A. Murray, Chella S. David, Fernando G. Chirdo, Kathy D. McCoy, and Elena F. Verdu

Nucleosides from Phlebotomus papatasi Salivary Gland Ameliorate Murine Collagen-Induced Arthritis by Impairing Dendritic Cell Functions
Talin-1 and Kindlin-3 Regulate α₄β₁ Integrin-Mediated Adhesion Stabilization, but Not G Protein-Coupled Receptor-Induced Affinity Upregulation
Sharon J. Hyduk, Jacob Rullo, Adrianet Puig Cano, Haiyan Xiao, Mian Chen, Markus Moser, and Myron I. Cybulsky

Functional Complement C1q Abnormality Leads to Impaired Immune Complexes and Apoptotic Cell Clearance
Lubka T. Roumenina, Damien Sène, Maria Radanova, Jacques Blouin, Lise Halbwachs-Mecarelli, Marie-Agnès Dragon-Durey, Wolf H. Fridman, and Veronique Fremeaux-Bacchi

Complement Regulation at Necrotic Cell Lesions Is Impaired by the Age-Related Macular Degeneration-Associated Factor-H His402 Risk Variant
Nadine Lauer, Michael Mihlan, Andrea Hartmann, Ursula Schlötzer-Schrehardt, Claudia Keilhauer, Hendrik P. N. Scholl, Peter Charbel Issa, Frank Holz, Bernhard H. F. Weber, Christine Skerka, and Peter F. Zipfel

AUTHOR INDEX