This information is current as of July 29, 2017.
IN THIS ISSUE

3971 Teaching an Old Peptidase New Tricks See article p. 4020
The Price of Internalizing Inhibition See article p. 4130
mAbs To Manage Metastasis See article p. 4165
Complementing Infection See article p. 4235
Breaking the Epithelial Barrier See article p. 4246
Tcf7 Regulates ILC Subsets See article p. 4383

BRIEF REVIEWS

3973 TGF-β: Guardian of T Cell Function
Soyoung A. Oh and Ming O. Li

CUTTING EDGE

3981 Cutting Edge: NK Cell Licensing Modulates Adhesion to Target Cells
L. Michael Thomas, Mary E. Peterson, and Eric O. Long

3986 Cutting Edge: Mouse NAIP1 Detects the Type III Secretion System Needle Protein
Manira Rayamajhi, Daniel E. Zak, Joseph Chavarria-Smith, Russel E. Vance, and Edward A. Miao

3990 Cutting Edge: CD4 T Cells Reactive to an Islet Amyloid Polypeptide Peptide Accumulate in the
Pancreas and Contribute to Disease Pathogenesis in Nonobese Diabetic Mice
Rocky L. Baker, Thomas Delong, Gene Barbour, Brenda Bradley, Maki Nakayama, and Kathryn Haskins

3995 Cutting Edge: TLR Signaling Licenses IRAK1 for Rapid Activation of the NLRP3 Inflammasome
Teresa Fernandez-Almenri, Seokwon Kang, Connor Anderson, Junji Sagara, Katherine A. Fitzgerald,
and Emad S. Alnemri

ALLERGY AND OTHER HYPERSENSITIVITIES

4001 Disruption of the Complement Anaphylatoxin Receptor C5L2 Exacerbates Inflammation in Allergic
Contact Dermatitis
Ruobing Wang, Bao Lu, Craig Gerard, and Norma P. Gerard

On the cover: H&E staining of a section of the proximal colon 8 d after oral infection with Citrobacter rodentium.
Defining CD8+ T Cell Determinants during Human Viral Infection in Populations of Asian Ethnicity
Laura Rivino, Anthony T. Tan, Adeline Chia, Emmanuelle A. P. Kumaran, Gijbvert M. Grotenbreg, Paul A. MacArty, and Antonio Bertoletti

New Role of Signal Peptide Peptidase To Liberate C-Terminal Peptides for MHC Class I Presentation
Cláudia C. Oliveira, Bianca Querido, Marjolein Sluijter, Anne F. de Groot, Reno van der Zee, Martijn J. W. E. Rabelink, Rob C. Hoeben, Ferry Osendorp, Sjoerd H. van der Burg, and Thorbald van Hall

Ablation of Peroxiredoxin II Attenuates Experimental Colitis by Increasing FoxO1-Induced Foxp3+ Regulatory T Cells
Hee Yeon Won, Eun Jung Jang, Kihyun Lee, Sera Oh, Hyo Kyung Kim, Hyun Ae Woo, Sang Won Kang, Dae-Youl Yu, Sue-Goo Rhee, and Eun Sook Hwang

Ablation of Peroxiredoxin II Attenuates Experimental Colitis by Increasing FoxO1-Induced Foxp3+ Regulatory T Cells
Hee Yeon Won, Eun Jung Jang, Kihyun Lee, Sera Oh, Hyo Kyung Kim, Hyun Ae Woo, Sang Won Kang, Dae-Youl Yu, Sue-Goo Rhee, and Eun Sook Hwang

Fatal Eosinophilic Myocarditis Develops in the Absence of IFN-γ and IL-17A

Ezrin Tunes the Magnitude of Humoral Immunity
Debasis Pore, Neetha Parameswaran, Ken Matsui, Matthew B. Stone, Ichiko Saotome, Andrea I. McClatchey, Sarah L. Veatch, and Neetu Gupta

Activated Platelets Enhance IL-10 Secretion and Reduce TNF-α Secretion by Monocytes
Sif Guðbrandsdóttir, Hans C. Haselbatch, and Claus H. Nielsen

Heat Shock Transcription Factor 1 Is Activated as a Consequence of Lymphocyte Activation and Regulates a Major Proteostasis Network in T Cells Critical for Cell Division During Stress
Siva K. Gandhapudi, Patience Murapa, Zachary D. Thrlekd, Martin Ward, Kevin D. Sarge, Charles Snow, and Jerold G. Woodward

LAT1 Is a Critical Transporter of Essential Amino Acids for Immune Reactions in Activated Human T Cells
Keitaro Hayashi, Promsuk Jutabha, Hitoshi Endou, Hironori Sagara, and Naohiko Anzai

IL-21 Enhances the Activity of the TLR–MyD88–STAT3 Pathway but Not the Classical TLR–MyD88–NF-κB Pathway in Human B Cells To Boost Antibody Production
Bi-Sheng Liu, Jeroen N. Stoop, Tom W. Huizinga, and Rene E. M. Tews

Cholera Toxin Directly Enhances IL-17A Production from Human CD4+ T Cells
Hsing-Chuan Tsai and Reen Wu

Both MC5r and A2Ar Are Required for Protective Regulatory Immunity in the Spleen of Post-Experimental Autoimmune Uveitis in Mice
Darren J. Lee and Andrew W. Taylor

Pneumococcal Components Induce Regulatory T Cells That Attenuate the Development of Allergic Airways Disease by Deviating and Suppressing the Immune Response to Allergen
Alison N. Thorburn, Alexandrea C. Brown, Prema M. Nair, Nina Chevalier, Paul S. Foster, Peter G. Gibson, and Philip M. Hansbro

Human T Cells Engineered To Express a Programmed Death 1/28 Costimulatory Retargeting Molecule Display Enhanced Antitumor Activity
Chen Ankri, Katerina Shamalov, Miyam Horovitz-Fried, Shmuely Mauer, and Cyrille J. Cohen

Immunotherapy Targeting Inhibitory Fcγ Receptor IIB (CD32b) in the Mouse Is Limited by Monoclonal Antibody Consumption and Receptor Internalization
Inhibition of Breast Cancer Metastasis by Resveratrol-Mediated Inactivation of Tumor-Evoked Regulatory B Cells
Catalina Lee-Chang, Monica Bodogai, Alejandro Martin-Montalvo, Katarzyna Wejksza, Mitesh Sanghvi, Ruin Moaddel, Rafael de Cabo, and Arya Biragyn

Adenovirus-Based Vaccine against Listeria monocytogenes Extending the Concept of Invariant Chain Linkage
Søren Jensen, Maria Abildgaard Steffensen, Benjamin Anderschou Holbech Jensen, Dirk Schlüter, Jan Prassgaard Christensen, and Allan Randrup Thomsen

Anti-Human CD73 Monoclonal Antibody Inhibits Metastasis Formation in Human Breast Cancer by Inducing Clustering and Internalization of CD73 Expressed on the Surface of Cancer Cells
Mikkel G. Terp, Kristina A. Olesen, Eva C. Arnspang, Rikke R. Lund, B. Christoffer Lagerholm, Henrik J. Ditzel, and Rikke Leth-Larsen

Agonist Anti-Human CD27 Monoclonal Antibody Induces T Cell Activation and Tumor Immunity in Human CD27–Transgenic Mice
Li-Zhen He, Naseem Prostak, Lawrence J. Thomas, Laura Vitale, Jeffrey Weidlick, Andrea Crocker, Catherine D. Pilsmaker, Sarah M. Round, Alison Tutt, Martin J. Glennie, Henry Marsh, and Tibor Keler

IL-12–Based Vaccination Therapy Reverses Liver-Induced Systemic Tolerance in a Mouse Model of Hepatitis B Virus Carrier
Zhutian Zeng, Xiaohui Kong, Fenglei Li, Haiming Wei, Rui Sun, and Zhigang Tian

INFECTIOUS DISEASE AND HOST RESPONSE

The Roles of IRF-3 and IRF-7 in Innate Antiviral Immunity against Dengue Virus
Hui-Wen Chen, Kevin King, Jui Tu, Marisa Sanchez, Andrew D. Luster, and Sujan Shresta

Regulation of the Development of the Hepatic B Cell Compartment during Schistosoma mansoni Infection
Keke C. Fairfax, Bart Everts, Amber M. Smith, and Edward J. Pearce

CD8+ Memory T Cells Appear Exhausted within Hours of Acute Virus Infection
Martin P. Hosking, Claudia T. Flynn, Jason Botten, and J. Lindsay Whitton

Identifying the Initiating Events of Anti-Listeria Responses Using Mice with Conditional Loss of IFN-γ Receptor Subunit 1 (IFNGR1)

An Alternative Role of C1q in Bacterial Infections: Facilitating Streptococcus pneumoniae Adherence and Invasion of Host Cells
Vaibhav Agarwal, Jonas Ahl, Kristian Riesbeck, and Anna M. Blom

HIV-1 gp120 Induces TLR2- and TLR4-Mediated Innate Immune Activation in Human Female Genital Epithelium

Increased Susceptibility to Pulmonary Pseudomonas Infection in Splunc1 Knockout Mice
Yanyan Liu, Marissa E. Di, Hong Wei Chu, Xinyu Liu, Ling Wang, Sally Wenzel, and Y. Peter Di

CD4+ T Cell Expression of MyD88 Is Essential for Normal Resolution of Chlamydia muridarum Genital Tract Infection
Lauren C. Frazer, Jeannie E. Sullivan, Matthew A. Zurenski, Margaret Mintus, Tammy E. Tomasak, Daniel Prantner, Uma M. Nagarajan, and Toni Darville

RON Receptor Tyrosine Kinase, a Negative Regulator of Inflammation, Is Decreased during Simian Immunodeficiency Virus–Associated Central Nervous System Disease
Daniele C. Cary, Janice E. Clements, and Andrew J. Henderson
INNATE IMMUNITY AND INFLAMMATION

Maresin 1, a Proresolving Lipid Mediator Derived from Omega-3 Polyunsaturated Fatty Acids, Exerts Protective Actions in Murine Models of Colitis
Rodrigo Marcon, Allison F. Bento, Rafael C. Dutra, Maira A. Bicca, Daniela F. P. Leite, and João B. Calixto

The p38-MSK1 Signaling Cascade Influences Cytokine Production through CREB and C/EBP Factors in Human Neutrophils
Thomas Z. Mayer, Françoise A. Simard, Alexandre Cloutier, Harsh Vardhan, Claire M. Dubois, and Patrick P. McDonald

Inflammatory Responses Induced by Lipopolysaccharide Are Amplified in Primary Human Monocytes but Suppressed in Macrophages by Complement Protein C5a
Vernon Seow, Junxian Lim, Abishek Iyer, Jacky Y. Suen, Juliana K. Ariffin, Daniel M. Hohenhaus, Matthew J. Sweet, and David P. Fairlie

IL-33 Markedly Activates Murine Eosinophils by an NF-κB–Dependent Mechanism Differentially Dependent upon an IL-4–Driven Autoinflammatory Loop
Carine Bouffi, Mark Rochman, Christopher B. Zut, Emily M. Stucke, Andrey Kartashov, Patricia C. Fulkerson, Artem Barski, and Marc E. Rothemberg

Conjugated Linoleic Acid Targets β2 Integrin Expression To Suppress Monocyte Adhesion
Monica de Gaetano, Eugene Dempsey, Simone Marcone, William G. James, and Orina Belton

Inflammasome-Mediated Secretion of IL-1β in Human Monocytes through TLR2 Activation; Modulation by Dietary Fatty Acids
Ryan G. Snodgrass, Shurong Huang, Il-Whan Choi, John C. Rutledge, and Daniel H. Hwang

IL-17 Promotes Neutrophil Entry into Tumor-Draining Lymph Nodes following Induction of Sterile Inflammation
Craig M. Brackett, Jason B. Muhitch, Sharon S. Evans, and Sandra O. Gollnick

The Mitochondrial Antiviral Protein MAVS Associates with NLRP3 and Regulates Its Inflammasome Activity
Sangjun Park, Christine Juliana, Sujeong Hong, Pinaki Datta, Inhua Huang, Teresa Fernandes-Alnemri, Je-Wook Yu, and Emad S. Alnemri

The Complement Anaphylatoxin C5a Receptor Contributes to Obese Adipose Tissue Inflammation and Insulin Resistance

Annexin-A1 Regulates TLR-Mediated IFN-β Production through an Interaction with TANK-Binding Kinase 1
Pradeep Bist, Shinla Shu, Hueyin Lee, Suruchi Arora, Sunitha Nair, Jyue Yuen Lim, Jivanaah Dayalan, Stephan Gasser, Subhra K. Biswas, Anna-Marie Fairhurst, and Lina H. K. Lim

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Role of the Igh Intronic Enhancer Eμ in Clonal Selection at the Pre–B to Immature B Cell Transition
Cheng Peng and Laurel A. Eckhardt
Important Role for FcγRIIB on B Lymphocytes for Mucosal Antigen-Induced Tolerance and Foxp3+ Regulatory T Cells
Jia-Bin Sun, Zou Xiang, Kenneth G. C. Smith, and Jan Holmgren

Pre-existing Tolerance Shapes the Outcome of Mucosal Allergen Sensitization in a Murine Model of Asthma
Timothy J. Chapman, Jason A. Emo, Sara A. Knowlden, Fariba Rezaee, and Steve N. Georas

Role of Complement Activation in Obliterative Bronchiolitis Post–Lung Transplantation

Double Deficiency for RORγt and T-bet Drives Th2-Mediated Allograft Rejection in Mice

Interruption of Dendritic Cell–Mediated TIM-4 Signaling Induces Regulatory T Cells and Promotes Skin Allograft Survival
Melissa Y. Yeung, Martina M. McGrath, Masafumi Nakayama, Tetsunosuke Shimizu, Olaf Boenisch, Ciara N. Magee, Rozita Abdoli, Hiuya Akiba, Takuya Ueno, Laurence A. Turka, and Nader Najafian

Identification of the Cellular Sentinels for Native Immunogenic Heat Shock Proteins In Vivo
Michelle Nicole Messmer, Joshua Pasmowitz, Laura Elizabeth Kropp, Simon C. Watkins, and Robert Julian Binder

AUTHOR INDEX