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

BRIEF REVIEWS

3831 Complement in Immune and Inflammatory Disorders: Pathophysiological Mechanisms
Daniel Ricklin and John D. Lambris

3839 Complement in Immune and Inflammatory Disorders: Therapeutic Interventions
Daniel Ricklin and John D. Lambris

CUTTING EDGE

3849 Cutting Edge: Cell Surface Linker for Activation of T Cells Is Recruited to Microclusters and Is Active in Signaling
Lakshmi Balagopalan, Valarie A. Barr, Robert L. Kortum, Anna K. Park, and Lawrence E. Samelson

3854 Cutting Edge: Rapid Boosting of Cross-Reactive Memory CD8 T Cells Broadens the Protective Capacity of the Flumist Vaccine
Bram Slieter, Lecia L. Pwee, Peter Lauer, and John T. Harty

ALLERGY AND OTHER HYPERSENSITIVITIES

3859 Dose-Dependent Effects of IL-17 on IL-13–Induced Airway Inflammatory Responses and Airway Hyperresponsiveness
Margaret W. Kinyanjui, Jichuan Shan, Emily M. Nakada, Salman T. Qureshi, and Elizabeth D. Fixman

ANTIGEN RECOGNITION AND RESPONSES

3869 Discovery of T Cell Epitopes Implementing HLA-Peptidomics into a Reverse Immunology Approach
Pleun Hombrink, Chopie Hassan, Michel G. D. Reiter, Arnoud H. de Ru, Cornelis A. M. van Bergen, Harm Nijven, Jan W. Druijfhout, J. H. Frederik Falkenburg, Mirjam H. M. Heemskerk, and Peter A. van Veelen

Multiple Transcription Factor Binding Sites Predict AID Targeting in Non-Ig Genes

Exacerbated Autoimmunity in the Absence of TLR9 in MRL.Fas<sup>−/−</sup> Mice Depends on Ifnar1
Kevin M. Nickerson, Jaime L. Cullen, Michael Kashgarian, and Mark J. Shlomchik

Divergent Effects of T Cell Costimulation and Inflammatory Cytokine Production on Autoimmune Peripheral Neuropathy Provoked by Aire Deficiency
Xiaopei L. Zeng, Anil Nagavalli, Colin-Jamal Smith, James F. Howard, and Maureen A. Su

The Downregulation of microRNA let-7a Contributes to the Excessive Expression of Type I Collagen in Systemic and Localized Scleroderma
Katsunari Makino, Masatoshi Jinmi, Ayaka Hirano, Keitaro Yamane, Mitsuhiko Eto, Takamitsu Kusano, Noritoshi Honda, Ikko Kajihara, Takamitsu Makino, Keisuke Sakai, Shinichi Masuguchi, Satoshi Fukushima, and Hiroshi Uno Ihn

Maintenance of Anti-Sm/RNP Autoantibody Production by Plasma Cells Residing in Ectopic Lymphoid Tissue and Bone Marrow Memory B Cells
Jason S. Weinstein, Matthew J. Delano, Yuan Xu, Kindra M. Kelly-Scumpia, Dina C. Nacionales, Yi Li, Pui Y. Lee, Philip O. Scumpia, Lijun Yang, Eric Sobel, Lyle L. Moldawer, and Wesley H. Reeves

Agnostic Anti-CD40 Induces Thyrocyte Proliferation and Promotes Thyroid Autoimmunity by Increasing CD40 Expression on Thyroid Epithelial Cells
Timothy Kayes, Yujiang Fang, Shiguang Yu, Edward Downey, Shufang Wang, and Helen Braley-Mullen

Conversion of Peripheral Blood NK Cells to a Decidual NK-like Phenotype by a Cocktail of Defined Factors
Ana Sofia Cerdeira, Augustine Rajakumar, Caroline M. Royle, Agnes Lo, Zabeed Hsuain, Ravi I. Thadhani, Vikas P. Sukhatme, S. Ananth Karumanchi, and Hernan D. Kopcow

Functional Genetic Variation in NFKBIA and Susceptibility to Childhood Asthma, Bronchiolitis, and Bronchopulmonary Dysplasia

Anti–GM-CSF Autoantibodies in Patients with Cryptococcal Meningitis
Lindsey B. Rosen, Alexandra F. Freeman, Lauren M. Yang, Kamonuan Jutivorakool, Kenneth N. Olivier, Nasikarn Angkasekwinai, Yupin Suputtamongkol, John E. Bennett, Vasilios Pyrgos, Peter R. Williamson, Li Ding, Steven M. Holland, and Sarah K. Browne

Antigen-Reactive T Cell Enrichment for Direct, High-Resolution Analysis of the Human Naive and Memory Th Cell Repertoire
Petra Bacher, Christian Schink, Janka Teutschbein, Olaf Kniemeyer, Mario Asenmacher, Axel A. Brakhage, and Alexander Scheffold

IL-21 Promotes CD8<sup>+</sup> CTL Activity via the Transcription Factor T-bet
Andrew P. R. Sutherland, Nicole Joller, Monia Michaud, Sue M. Liu, Vijay K. Kuchroo, and Michael J. Grusby

Clonally Diverse T Cell Homeostasis Is Maintained by a Common Program of Cell-Cycle Control
Thea Hogan, Andrei Shuvaev, Daniel Commenge, Andrew Yates, Robin Callard, Rodolphe Thiebaut, and Benedict Seddon

Ly49Q Positively Regulates Type I IFN Production by Plasmacytoid Dendritic Cells in an Immunoreceptor Tyrosine–Based Inhibitory Motif–Dependent Manner
Mir Munir A. Rahim, Lee-Hwa Tai, Angela D. Troke, Ahmad Bakur Mahmoud, Elias Abou-Samra, Justin G. Roy, Amelia Mattasheh, Nicholas Ault, Chloe Corbeil, Marie-Line Goulet, Haggag S. Zein, Melissa Hamilton-Valensky, Gerald Krystal, William G. Kerr, Noriko Toyama-Sorimachi, and Andrew P. Makrigiannis
PU.1-Dependent Transcriptional Regulation of miR-142 Contributes to Its Hematopoietic Cell–Specific Expression and Modulation of IL-6
Yaping Sun, John Sun, Toubai Tomomi, Evelyn Nieves, Nathan Mathewson, Hiroya Tamaki, Rebecca Evers, and Pavan Reddy

Bcl6 Expressing Follicular Helper CD4 T Cells Are Fate Committed Early and Have the Capacity To Form Memory
Youn Soo Choi, Jessica A. Yang, Isharat Yusuf, Robert J. Johnston, Jason Greenbaum, Bjorn Peters, and Shane Crotty

TNFR-Associated Factor 6 Regulates TCR Signaling via Interaction with and Modification of LAT Adapter
Ji-Ji Xie, Jia-Qi Liang, Liang-Hui Diao, Amnon Altman, and Yingqiu Li

Essential Roles of K63-Linked Polyubiquitin-Binding Proteins TAB2 and TAB3 in B Cell Activation via MAPKs
Daisuke Ori, Hiroki Kato, Hideki Sanjo, Sarang Tartey, Takashi Mino, Shizuo Akira, and Osamu Takeuchi

Calcitonin Gene-Related Peptide and Cyclic Adenosine 5’-Monophosphate/Protein Kinase A Pathway Promote IL-9 Production in Th9 Differentiation Process
Norihisa Mikami, Yayoi Miyagi, Kaori Sueda, Miku Takatsuji, So-ichiro Fukada, Hiroshi Yamamoto, and Kazutake Tsujikawa

IMMUNE SYSTEM DEVELOPMENT

Stepwise Epigenetic and Phenotypic Alterations Poise CD8+ T Cells To Mediate Airway Hyperresponsiveness and Inflammation
Yi Jia, Katsuyuki Takeda, Junyan Han, Anthony Joetham, Roland A. Marcus, Joseph J. Lucas, Brian P. O’Connor, and Erwin W. Gelfand

IMMUNOGENETICS

Next-Generation Sequencing Identifies MicroRNAs that Associate with Pathogenic Autoimmune Neuroinflammation in Rats
Petra Bergman, Tojo James, Lara Kular, Sabrina Ruhrmann, Tatiana Kramarova, Anders Krivt, Gordana Supic, Alan Gillett, Andor Pivarcsi, and Maja Jagodic

Coordinated Changes in DNA Methylation in Antigen-Specific Memory CD4 T Cells
Shin-ichi Hashimoto, Katsumi Ogoshi, Assashi Sasaki, Jun Ake, Wei Qu, Yoichiro Nakatani, Budrun Ahsan, Kenshiro Oshina, Francis H. W. Shand, Akio Ametani, Yutaka Suzuki, Shuichi Kaneko, Takashi Wada, Masahira Hattori, Sumio Sugano, Shinichi Morishita, and Kouji Matsushima

IMMUNOTHERAPY AND VACCINES

Immunization with Escherichia coli Outer Membrane Vesicles Protects Bacteria-Induced Lethality via Th1 and Th17 Cell Responses
Oh Youn Kim, Bok Sil Hong, Kyong-Su Park, Yae Jin Yoon, Seng Jin Choi, Won Hee Lee, Tae-Young Roh, Jan Lötvall, Yoon-Kewn Kim, and Yong Song Gho

Polynosinic-Polycytidylic Acid Is the Most Effective TLR Adjuvant for SIV Gag Protein–Induced T Cell Responses In Nonhuman Primates
Haesun Park, Lauren Adamson, Tao Xu, Karl Mullen, Shoko I. Hagen, Ory Neguiron, Andrew W. Sylvester, Michael K. Asthemb, Al Legase, Michael Piatkos, Jr., Jeffrey D. Lifson, Juliana M. McElrath, Louis J. Picker, and Robert A. Seder

Enhanced Immunogenicity of a Tricomponent Mannan Tetanus Toxoid Conjugate Vaccine Targeted to Dendritic Cells via Dectin-1 by Incorporating β-Glucan
Tomasz Lipinski, Amira Fitieh, Joelle St. Pierre, Hanne L. Ostergaard, David R. Bundle, and Nicolas Touret

INFECTIOUS DISEASE AND HOST RESPONSE

Candida albicans Primes TLR Cytokine Responses through a Dectin-1/Raf–1–Mediated Pathway
Daniela C. Ifrim, Leo A. B. Joosten, Bart-Jan Kullberg, Liesbeth Jacobs, Trees Jansen, David L. Williams, Neil A. R. Gow, Jos W. M. van der Meer, Mihai G. Neotea, and Jessica Quintin
An Extracellular Matrix–Based Mechanism of Rapid Neutrophil Extracellular Trap Formation in Response to Candida albicans
Angel S. Byrd, Xian M. O’Brien, Courtney M. Johnson, Liz M. Lavigne, and Jonathan S. Reichner

Fibrin Facilitates Both Innate and T Cell–Mediated Defense against Yersinia pestis

A New Model for CD8+ T Cell Memory Inflation Based upon a Recombinant Adenoviral Vector
Beatrice Belinger, Smart Sims, Geraldine O’Hara, Catherine de Lara, Elma Tchilian, Sonja Firner, Daniel Engeler, Burkhard Ludewig, and Paul Klenerman

Monocyte- and Macrophage-Targeted NADPH Oxidase Mediates Antifungal Host Defense and Regulation of Acute Inflammation in Mice

Liver Sinusoidal Endothelial Cell Lectin Inhibits CTL-Dependent Virus Clearance in Mouse Models of Viral Hepatitis
Biao Liu, Min Wang, Xiaowen Wang, Dianyuan Zhao, Di Liu, Jing Liu, Pei-Jer Chen, Dongliang Yang, Fuchu He, and Li Tang

IL-1β Promotes Antimicrobial Immunity in Macrophages by Regulating TNFR Signaling and Caspase-3 Activation
Pushpa Jayaraman, Isabel Sada-Ovalle, Tomoyasu Nishimura, Ana C. Anderson, Vijay K. Kuchroo, Heinz G. Remold, and Samuel M. Behar

Altered T-bet Dominance in IFN-γ–Decoupled CD4+ T Cells with Attenuated Cytokine Storm and Preserved Memory in Influenza
Avijit Dutta, Shi-Chuen Miu, Jhang-Sian Yu, Tse-Ching Chen, Chun-Yen Lin, Yang-Chang Lin, Chia-Shiang Chang, Yueh-Chia He, Sheng-Hao Chuang, Ming-I Yin, and Ching-Tai Huang

INNATE IMMUNITY AND INFLAMMATION

Changes and Regulation of the C5a Receptor on Neutrophils during Septic Shock in Humans
Heike Unnewehr, Daniel Rittirsch, J. Vidya Sarma, Firas Zetoune, Michael A. Flierl, Mario Perl, Stephanie Denk, Manfred Weiss, Marion E. Schneider, Peter N. Monk, Thomas Neff, Michael Miblan, Holger Barth, Florian Gebhard, Peter A. Ward, and Markus Huber-Lang

Selective Impairment of P2Y Signaling by Prostaglandin E2 in Macrophages: Implications for Ca2+-Dependent Responses
Paqui G. Travers, Maria Pimentel-Santillana, Luz Maria G. Carrasquero, Raquel Pérez-Sen, Esperidita G. Delicado, Alfonso Luque, Manuel Izquierdo, Paloma Martín-Sanz, María Teresa Miras-Portugal, and Lisardo Boscá

Monocyte ADAM17 Promotes Diapedesis during Transendothelial Migration: Identification of Steps and Substrates Targeted by Metalloproteinases
Yoshiaki Tsubota, Jeramy M. Frey, Phillip W. L. Tai, Robert E. Welikson, and Elaine W. Raines

Fas-Mediated Inflammatory Response in Listeria monocytogenes Infection
Ryosuke Uchiyama, Shin Yonehara, and Hiroko Tsutsui

CD62L Is Critical for Maturation and Accumulation of Murine Hepatic NK Cells in Response to Viral Infection
Hui Peng, Rai Sun, Ling Tang, Haiming Wei, and Zhigang Tian

Solute Carrier 11A1 Is Expressed by Innate Lymphocytes and Augments Their Activation
Judi F. Hedges, Emily Kimmel, Deann T. Snyder, Maria Jerome, and Mark A. Juula

TNF-Induced Death Signaling Triggers Alveolar Epithelial Dysfunction in Acute Lung Injury
Brijesh V. Patel, Michael R. Wilson, Kieran P. O’Dea, and Masao Takita
Profibrotic Activities for Matrix Metalloproteinase-8 during Bleomycin-Mediated Lung Injury
Vanessa J. Craig, Pablo A. Quintero, Susanne E. Fyfe, Avignat S. Patel, Martin D. Knolle, Lester Kobzik, and Caroline A. Owen

A Novel Small-Molecule Enantiomeric Analogue of Traditional (−)-Morphinans Has Specific TLR9 Antagonist Properties and Reduces Sterile Inflammation-Induced Organ Damage
Rafaz Hoque, Ahmad Farooq, Ahsan Malik, Bobby N. Trauick, David W. Berberich, Joseph P. McClurg, Karen P. Galen, and Wajahat Mehal

α1β1 Integrin-Mediated Adhesion Inhibits Macrophage Exit from a Peripheral Inflammatory Lesion
Henry M. Becker, Jacob Rullo, Mian Chen, Magar Ghazarian, Sungbo Bak, Haiyan Xiao, John B. Hay, and Myron I. Cybulsky

Impact of Immune Complex Size and Glycosylation on IgG Binding to Human FcγRs
Anja Lux, Xiaojie Yu, Chris N. Scanlan, and Falk Nimmerjahn

Signaling through Purinergic Receptors for ATP Induces Human Cutaneous Innate and Adaptive Th17 Responses: Implications in the Pathogenesis of Psoriasis
Meaghan E. Killeen, Laura Ferris, Erin A. Kapetsky, Louis Falo, Jr., and Alicia R. Maters

Antisense Oligonucleotide Treatment Enhances the Recovery of Acute Lung Injury through IL-10–Secreting M2-like Macrophage-Induced Expansion of CD4+ Regulatory T Cells
Zhongliang Guo, Zhenke Wen, Andong Qin, Ya Zhou, Zhenyuan Liao, Zhongmin Liu, Yongjie Liang, Tao Ren, and Lin Xu

Cxcl8 (IL-8) Mediates Neutrophil Recruitment and Behavior in the Zebrafish Inflammatory Response
Sofia de Oliveira, Constantino C. Reyes-Aldasoro, Sergio Candel, Stephen A. Renshaw, Victoriano Mulero, and Angelo Calado

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Glucocorticoids Induce Effector T Cell Depolarization via ERM Proteins, Thereby Impeding Migration and APC Conjugation
Nora Müller, Henrik J. Fischer, Denise Tischner, Jens van den Brandt, and Holger M. Reichardt

Distinct Binding Affinities of Mac-1 and LFA-1 in Neutrophil Activation
Ning Li, Debin Mao, Shouqin Liu, Chunfang Tong, Yan Zhang, and Mian Long

TRANSPLANTATION

Potential Contribution of a Novel Tax Epitope–Specific CD4+ T Cells to Graft-versus-Tax Effect in Adult T Cell Leukemia Patients after Allogeneic Hematopoietic Stem Cell Transplantation
Yotaro Tamai, Atsuhiko Hasegawa, Ayako Takamori, Amane Saada, Ryuji Tannasaki, Ilseung Choi, Atae Utsunomiya, Yasuhiro Maeda, Yoshibisa Yamano, Tetsuya Eto, Ki-Ryang Koh, Hirohsa Nakamae, Youko Suehiro, Koji Kato, Shigeki Takemoto, Jun Okamura, Naokuni Uike, and Mari Kannagi

TUMOR IMMUNOLOGY

Adaptive Immunity Does Not Strongly Suppress Spontaneous Tumors in a Sleeping Beauty Model of Cancer
Laura M. Rogers, Alicia K. Olivier, David K. Meyerholz, and Adam J. Dupuy

Differential Effects of Phenethyl Isothiocyanate and D,L-Sulforaphane on TLR3 Signaling
Jianzhong Zhu, Arundhati Ghosh, Elizabeth M. Coyle, Joomin Lee, Eun-Kyung Ham, Shivendra V. Singh, and Saumendra N. Sarkar

Epithelial–Mesenchymal Transition Induces an Antitumor Immune Response Mediated by NKG2D Receptor
Alejandro López-Soto, Leticia Huerzo-Zapico, José Alberto Galván, Luis Rodrigo, Antonio García de Herreros, Aurora Astudillo, and Segundo Gonzalez
CORRECTIONS

Correction: *Haemophilus influenzae* Surface Fibrils Contribute to Serum Resistance by Interacting with Vitronectin
*Teresia Hallström, Elena Trajkovska, Arne Forsgren, and Kristian Riesbeck*

Correction: Antigen Aggregation Decides the Fate of the Allergic Immune Response
*Nadja Zaborsky, Marietta Brunner, Michael Wallner, Martin Himly, Tanja Karl, Robert Schwarzenbacher, Fatima Ferreira, and Gernot Achatz*

Correction: The Hemopoietic Rho/Rac Guanine Nucleotide Exchange Factor Vav1 Regulates N-Formyl-Methionyl-Leucyl-Phenylalanine-Activated Neutrophil Functions
*Chaekyun Kim, Christophe C. Marchal, Josef Penninger, and Mary C. Dinauer*

AUTHOR INDEX