This information is current as of April 14, 2017.
IN THIS ISSUE
835 Lyn-king Autoimmunity to B Cells See article p. 919
Brain B Cells Make MS Mischief See article p. 929
Enhancing Pro–B Cell Activity See article p. 1064
Fishing for New B Cell Populations See article p. 1257
T Cell Transfer Targets Tumors See article p. 1286
Bridging the NK Cell Synapse Gap See article p. 1313

PILLARS OF IMMUNOLOGY
837 Celebrating Diversity in Memory T Cells
Susan M. Kaech
Federica Sallusto, Danielle Lenig, Reinhold Förster, Martin Lipp, and Antonio Lanzavecchia
David Masopust, Vaiva Vezys, Amanda L. Marzo, and Leo Lefrançois

BRIEF REVIEWS
851 The Autotaxin–LPA Axis Emerges as a Novel Regulator of Lymphocyte Homing and Inflammation
Sara Knowlden and Steve N. Georas

ALLERGY AND OTHER HYPERSENSITIVITIES
859 EGFR Signaling Blunts Allergen-Induced IL-6 Production and Th17 Responses in the Skin and Attenuates Development and Relapse of Atopic Dermatitis
Zhonghua Zhang, Chang Xiao, Aaron M. Gibson, Stacey A. Bass, and Gurjit K. Khurana Hershey

ANTIGEN RECOGNITION AND RESPONSES

867 Integrating B Cell Lineage Information into Statistical Tests for Detecting Selection in Ig Sequences
Mohamed Uduman, Mark J. Shlomchik, Francois Vigneault, George M. Church, and Steven H. Kleinste

AUTOIMMUNITY

875 Requirement for MyD88 Signaling in B Cells and Dendritic Cells for Germinatal Center Anti-Nuclear
Antibody Production in Lyn-Deficient Mice
Zhaolin Hua, Andrew J. Gross, Chrysetle Lamagna, Natalia Ramos-Hernández, Patrizia Scapini, Ming Ji, Haitao Shao,
Clifford A. Lowell, Baidong Hou, and Anthony L. DeFranco

886 CCR1 Inhibition Ameliorates the Progression of Lupus Nephritis in NZB/W Mice
Alexandre Bignon, Françoise Gaudin, Patrice Hémon, Hugo Tharinger, Katia Mayol, Thierry Walzer, Piut Loetscher,
Michel Peuchmaur, Dominique Berrebi, and Karl Balabanian

897 Follicular B Cells in Thyroids of Mice with Spontaneous Autoimmune Thyroiditis Contribute to
Disease Pathogenesis and Are Targets of Anti-CD20 Antibody Therapy
So-Hee Hong and Helen Braly-Mullen

906 Neutrophil-Mediated IFN Activation in the Bone Marrow Alters B Cell Development in Human and
Murine Systemic Lupus Erythematosus
Arumugam Palanichamy, Jason W. Bauer, Sriakshthi Yalavarthi, Nida Meednu, Jennifer Barnard, Teresa Owen,
Christopher Cistone, Anna Bird, Alfred Rubinovich, Sarah Neavins, Jason S. Knight, Russell Dedrick,
Alexander Rosenberg, Chungwen Wei, Javier Rangel-Moreno, Jane Liesveld, Inaki Sanz, Emily Baechler,
Marijana J. Kaplan, and Jennifer H. Anolik

919 B Cell–Specific Loss of Lyn Kinase Leads to Autoimmunity
Chrysetle Lamagna, Yongmei Hu, Anthony L. DeFranco, and Clifford A. Lowell

929 B Cells Promote Induction of Experimental Autoimmune Encephalomyelitis by Facilitating Reactivation
of T Cells in the Central Nervous System
Emily R. Pierson, Ingunn M. Stromnes, and Joan M. Goverman

CLINICAL AND HUMAN IMMUNOLOGY

940 HTLV-1 bZIP Factor–Specific CD4 T Cell Responses in Adult T Cell Leukemia/Lymphoma Patients after
Allogeneic Hematopoietic Stem Cell Transplantation
Tomoko Narita, Takashi Iida, Ayako Masaki, Susumu Suzuki, Aushi Ito, Fumiko Mori, Tomiko Yamada,
Masaki Ri, Shigero Kusunoto, Hirokazu Komatsu, Yasuhiko Miyazaki, Yoshifusa Takatsuka, Atae Usunomiya,
Akio Niimi, Shinuake Iida, and Ryuzo Ueda

948 Attenuation of Respiratory Syncytial Virus–Induced and RIG–I–Dependent Type I IFN Responses in
Human Neonates and Very Young Children
Nico Marr, Ting-I Wang, Sarah H. Y. Kam, Yuan Shen Hu, Abish A. Sharma, Angie Lam, Joy Markowski,
Alfonso Solisano, Pascal M. Lavoie, and Stuart E. Turvey

958 Autophagy Induction by SIRT6 through Attenuation of Insulin-like Growth Factor Signaling Is Involved
in the Regulation of Human Bronchial Epithelial Cell Senescence
Naoki Takahashi, Jun Araya, Hiromichi Haru, Saburo Ito, Kenji Kobayashi, Yasuke Kuroki, Hiroshi Waku,
Yutaka Yoshii, Yoko Yumio, Satoshi Fujii, Shunsuke Minagawa, Chikako Tsuruisige, Jun Kojima, Takanori Numata,
Kenichiro Shimizu, Makoto Kawaiishi, Yumi Kaneko, Noriko Kaniya, Jun Hirano, Makoto Odaka,
Tohiko Morikawa, Stephen L. Nishimura, Katsutoishi Nakayama, and Kazuyoshi Kuwano

969 Pathological Role of Regulatory T Cells in the Initiation and Maintenance of Eczema Herpeticum
Lesions
Ryo Takahashi, Yohsei Sato, Maiko Kurata, Yoshimi Yamazaki, Monoko Kimishima, and Tetsuo Shiohara

979 Deficient Leptin Signaling Ameliorates Systemic Lupus Erythematosus Lesions in MRL/Mp-Fas/− Mice
Yoshinasa Fujita, Takao Fujii, Tsinneo Minori, Tomomi Sato, Takui Nakamura, Haruka Iwao, Akio Nakajima,
Miyuki Miki, Tomoyuki Sakai, Takafumi Kawanami, Masao Tanaka, Yasufumi Masaki, Toshibiro Fukushima,
Toshio Okazaki, and Hisanori Umebaru
IMMUNE REGULATION

985 Bach2 Regulates Homeostasis of Foxp3+ Regulatory T Cells and Protects against Fatal Lung Disease in Mice
Eui Ho Kim, David J. Gasper, Song Hee Lee, Erin Hemmila Plüsch, John Svaren, and M. Suresh

996 STAT5-Induced Lunatic Fringe during Th2 Development Alters Delta-like 4–Mediated Th2 Cytokine Production in Respiratory Syncytial Virus–Exacerbated Airway Allergic Disease
Samanta Mukherjee, Andrew J. Rasky, Phil A. Lundy, Nicolai A. Kittan, Steven L. Kunkel, Ivan P. Maillard, Paul E. Kowalski, Philaretos C. Kousis, Cynthia J. Guidos, and Nicholas W. Lukacs

1004 Myeloid Cells Limit Production of Antibody-Secreting Cells after Immunization in the Lymph Node
David R. Fooksman, Michel C. Nusenzweig, and Michael L. Dustin

1013 Activation of the Epidermal Growth Factor Receptor in Macrophages Regulates Cytokine Production and Experimental Colitis
Ning Lu, Lihong Wang, HaiLong Cao, Liping Liu, Luc Van Kaeer, Mary K. Washington, Michael J. Rosen, Philip E. Dubé, Keith T. Wilson, Xiubao Ren, Xishan Hao, D. Brent Polk, and Fang Yan

1024 Premature Terminal Differentiation Protects from Deregulated Lymphocyte Activation by ITK-Syk
Martina P. Bach, Eva Hug, Markus Werner, Julian Holch, Clara Sprisler, Konstanze Pechlof, Katja Zirlik, Robert Zeier, Christine Dierks, Jürgen Ruland, and Hassan Jumaa

1034 MicroRNA-155 and MicroRNA-21 Promote the Expansion of Functional Myeloid-Derived Suppressor Cells
Limin Li, Jing Zhang, Wenli Diao, Dong Wang, Yao Wei, Chen-Yu Zhang, and Ke Zen

IMMUNE SYSTEM DEVELOPMENT

1044 A Feeder-Free Differentiation System Identifies Autonomously Proliferating B Cell Precursors in Human Bone Marrow
Helene Kraus, Sandra Kaiser, Konrad Aumann, Peter Bönsel, Ulrich Salzer, Dietmar Vestweber, Miriam Erlacher, Mirjam Kanze, Meike Burger, Kathrin Pieper, Heiko Sic, Antonius Rolink, Hermann Eibel, and Marta Rizzi

1055 Id3 and Id2 Act as a Dual Safety Mechanism in Regulating the Development and Population Size of Innate-like γδ T Cells
Baojun Zhang, Yen-Yu Lin, Meifang Dai, and Yuan Zhuang

IMMUNOGENETICS

1064 Targeted Chromatin Profiling Reveals Novel Enhancers in Ig H and Ig L Chain Loci
Alexander V. Predeus, Suhasni Gopalakrishnan, Yue Huang, Jun Tang, Ann J. Feeney, Eugene M. Oltz, and Maxim N. Artyomov

IMMUNOTHERAPY AND VACCINES

1071 Nanoparticle Adjuvant Sensing by TLR7 Enhances CD8+ T Cell–Mediated Protection from Listeria Monocytogenes Infection
Marie-Eve Lebel, Jean-François Daudelin, Karine Chartrand, Esther Tarrab, Ulrich Kalinke, Pierre Savard, Nathalie Labrecque, Denis Leclerc, and Alain Lamarre

INFECTIOUS DISEASE AND HOST RESPONSE

1079 PD-L1 Limits the Mucosal CD8+ T Cell Response to Chlamydia trachomatis
Sarah C. Fankhauser and Michael N. Starnbach

1091 Identification of B7-H1 as a Novel Mediator of the Innate Immune/Proinflammatory Response as well as a Possible Myeloid Cell Prognostic Biomarker in Sepsis
Xin Huang, Yaping Chen, Chun-Shiang Chung, Zhenglong Yuan, Sean F. Monaghan, Fei Wang, and Alfred Ayala

1100 Antibodies VRC01 and 10E8 Neutralize HIV-1 with High Breadth and Potency Even with Ig-Framework Regions Substantially Reverted to Germline
Ivelin S. Georgiev, Rebecca S. Rudicell, Kevin O. Saunders, Wei Shi, Tatiana Krys, Krishna McKee, Siyi O’Dell, Guo-Yu Chuang, Zhi-Yong Yang, Gilad Ofek, Mark Connors, John R. Mascola, Gary J. Nabel, and Peter D. Kwong
C-Type Lectin Receptors Differentially Induce Th17 Cells and Vaccine Immunity to the Endemic Mycosis of North America
Huafeng Wang, Vanessa LeBert, Chiung Yu Hung, Kevin Galles, Shinobu Saigo, Xin Lin, Garry T. Cole, Bruce S. Klein, and Marcel Wüthrich

INNATE IMMUNITY AND INFLAMMATION

Engulfment of Apoptotic Cells by Macrophages: A Role of MicroRNA-21 in the Resolution of Wound Inflammation
Amitava Das, Kasturi Ganesh, Savita Khanna, Chandan K. Sen, and Sashwati Roy

Prostaglandin E2–EP3 Signaling Induces Inflammatory Swelling by Mast Cell Activation
Kazushi Morimoto, Narntoshi Shirata, Yoshihata Takedomi, Soken Tsuchiya, Eri Segi-Nishida, Tomoaki Inazumi, Kenji Kabashima, Satoshi Tanaka, Makoto Murakami, Shuh Narumiya, and Yukihiko Sugimoto

Unbiased Expression Mapping Identifies a Link between the Complement and Cholinergic Systems in the Rat Central Nervous System

Complement Activation by Ceramide Transporter Proteins
Gerard H. Bode, Mario Luzen, Wim A. Buurman, Robert Veerhuis, Peter C. Molenaar, Harry W. M. Steinbusch, Marc H. De Baets, Mohamed R. Daha, and Pilar Martinez-Martinez

An Alternative Splicing Isoform of MITA Antagonizes MITA-Mediated Induction of Type I IFNs
Honghe Chen, Rongjuan Pei, Wandi Zhu, Rui Zeng, Yun Wang, Yanyi Wang, Mengji Lu, and Xinwen Chen

A Novel Mitochondrial MAVS/Caspase-8 Platform Links RNA Virus–Induced Innate Antiviral Signaling to Bax/Bak-Independent Apoptosis
Sohayla El Maadidi, Laura Faletti, Birgit Berg, Christin Wenzl, Katrin Wieland, Zhijian J. Chen, Ulrich Maurer, and Christoph Borner

Phosphatase Wip1 Negatively Regulates Neutrophil Migration and Inflammation
Bo Sun, Xuelian Hu, Guangwei Liu, Bo Ma, Yamei Xu, Tao Yang, Jianfeng Shi, Fan Yang, Hongyan Li, Lianfeng Zhang, and Yong Zhao

Chronic Exposure to Glucocorticoids Shapes Gene Expression and Modulates Innate and Adaptive Activation Pathways in Macrophages with Distinct Changes in Leukocyte Attraction
Martijn D. B. van de Garde, Fernando O. Martinez, Barbro N. Melgert, Machteld N. Hylkema, René E. Jonkers, and Jörg Hamann

Cell Death Triggered by Yersinia enterocolitica Identifies Processing of the Proinflammatory Signal Adapter MyD88 as a General Event in the Execution of Apoptosis
Lena Novikova, Nicole Czymmek, Anne Desreutzbacher, Friedrich Buck, Kathleen Richter, Alexander N. R. Weber, Martin Aepfelbacher, and Klaus Ruckdeschel

Generation of Multiple Fluid-Phase C3b:Plasma Protein Complexes during Complement Activation: Possible Implications in C3 Glomerulopathies
Mahalakshmi Ramadass, Berhane Ghebrehiwet, Richard J. Smith, and Richard R. Kew

The SOCS3-Independent Expression of IDO2 Supports the Homeostatic Generation of T Regulatory Cells by Human Dendritic Cells
Sara Trabanelli, Davina Očadlíková, Marilena Ciciarello, Valentina Salvestrini, Mariangela Lecciso, Camilla Jandus, Richard Metz, Cecilia Evangelisti, Lia Laury-Kleintop, Pedro Romero, George C. Prendergast, Antonio Curti, and Roberto M. Lemoli

Activin A as a Mediator of NK–Dendritic Cell Functional Interactions
Pascal Seeger, Daniela Botisio, Silvia Parolini, Raffaele Badolato, Angela Gismondi, Angela Santoni, and Silvano Sozzani
MUCOSAL IMMUNOLOGY

1249 Identification of Hypoxia-Inducible Factor HIF-1A as Transcriptional Regulator of the A2B Adenosine Receptor during Acute Lung Injury
   Tobias Eckle, Emily M. Kewley, Kelley S. Brodsky, Eunyoung Tak, Stephanie Bonney, Merit Gobel, Devon Anderson, Louise E. Glover, Ann K. Riegel, Sean P. Colgan, and Holger K. Eltzschig

1257 CCR7 Is Mainly Expressed in Teleost Gills, Where It Defines an IgD⁺IgM⁻ B Lymphocyte Subset
   Rosario Castro, Erin Bromage, Beatriz Abós, Jaime Piguetelli, Aitor Gonzalez Granja, Alfonso Luque, and Carolina Tafalla

1267 IFN-γ-Mediated Induction of an Apical IL-10 Receptor on Polarized Intestinal Epithelia
   Douglas J. Kominsky, Eric L. Campbell, Stefan F. Ehrentraut, Kelly E. Wilson, Caleb J. Kelly, Louise E. Glover, Colin B. Collins, Amanda J. Bayless, Bejan Saeedi, Evgenia Dobrinskikh, Brittelle E. Bowers, Christopher F. MacManus, Werner Müller, Sean P. Colgan, and Dunja Bruder

TRANSPLANTATION

1277 IL-1β and TLR4 Signaling Are Involved in the Aggravated Murine Acute Graft-versus-Host Disease Caused by Delayed Bortezomib Administration
   Yong Liang, Shoubao Ma, Yanning Zhang, Ying Wang, Qiao Cheng, Yan Wu, Yue Jin, Donghui Zheng, Depei Wu, and Haiyan Liu

TUMOR IMMUNOLOGY

1286 Adoptively Transferred Immune T Cells Eradicate Established Tumors despite Cancer-Induced Immune Suppression
   Ainhoa Arina, Karin Schreiber, David C. Binder, Theodore G. Karrison, Rebecca B. Liu, and Hans Schreiber

1294 Mannan-Binding Protein, a C-Type Serum Lectin, Recognizes Primary Colorectal Carcinomas through Tumor-Associated Lewis Glycans
   Motohiro Nonaka, Hirotsugu Imaeda, Shogo Matsumoto, Bruce Yong Ma, Nobuko Kawasaki, Eiji Mekata, Akira Andoh, Yasuharu Saito, Tohru Tani, Yoshihide Fujiyama, and Toshioke Kawasaki

1302 The (1→6)-β-Glucan Moiety Represents a Cross-Reactive Epitope of Infection-Induced Malignancy Surveillance
   Hongliang Dong, Hui Dai, Xiaomin Hu, Si-Dong Xiong, and Xiao-Ming Gao

1313 Gap Junction Intercellular Communications Regulate NK Cell Activation and Modulate NK Cytotoxic Capacity

1320 Transmembrane TNF-α Promotes suppressive Activities of Myeloid-Derived Suppressor Cells via TNFR2
   Xin Hu, Baibua Li, Xiaojuan Li, Xiaoxian Zhao, Lin Wan, Guohong Lin, Min Yu, Jing Wang, Xiaodan Jiang, Wei Feng, Zhizhai Qin, Bingjiao Yin, and Zhuoyu Li

CORRECTIONS

1332 Correction: In Vivo Ablation of Plasmacytoid Dendritic Cells Inhibits Autoimmunity through Expansion of Myeloid-Derived Suppressor Cells
   Marianna Ioannou, Themis Alissafi, Louis Boon, Dimitrios Boumpas, and Panayotis Verginis

1333 Correction: Substrate-Induced Protein Stabilization Reveals a Predominant Contribution from Mature Proteins to Peptides Presented on MHC Class I
   Jeff D. Colbert, Diego J. Farfán-Arribas, and Kenneth L. Rock

1334 Correction: Crucial Role of Granulocytic Myeloid-Derived Suppressor Cells in the Regulation of Central Nervous System Autoimmune Disease
   Marianna Ioannou, Themis Alissafi, Iakovos Lazaridis, George Deraos, John Matsoukas, Achille Gravanis, Vasileios Mastorodemos, Andreas Platiakis, Arlene Sharpe, Dimitrios Boumpas, and Panayotis Verginis

1335 AUTHOR INDEX