IN THIS ISSUE

1407 IL-33 during Early B Cell Development See article p. 1457
Distinct Development of Fetal and Adult Vγ9Vδ2 T Cells See article p. 1468
Helping CD4 Memory in Avian Flu Vaccination See article p. 1502
Recruiting STING to the ER See article p. 1560
Trim58 Trims TLR2 in Colitis See article p. 1636

CUTTING EDGE

1411 Cutting Edge: Role of MASP-3 in the Physiological Activation of Factor D of the Alternative Complement Pathway
Manabu Hayashi, Takeshi Machida, Yumi Ishida, Yuuke Ogata, Tomoko Omori, Mika Takasumi, Yuichi Endo, Tohiyuki Suzuki, Masayuki Sekimata, Yoshihisa Homma, Masahito Ikawa, Hiromasa Ohira, Teizo Fujita, and Hideharu Sekine

AUTOIMMUNITY

1417 Dendritic Cell Accumulation in the Gut and Central Nervous System Is Differentially Dependent on α4 Integrins
Christopher Sie, Laura Garcia Perez, Mario Kreutzfeldt, Maria Pothast, Caspar Ohnmacht, Doron Merkler, Samuel Huber, Anne Krug, and Thomas Korn

1428 Low Vitamin D Status Is Associated with Epithelial–Mesenchymal Transition in Patients with Chronic Obstructive Pulmonary Disease
Jun Fei, Lin Fu, Wei Cao, Biao Hu, Hui Zhao, and Jia-Bin Li

IMMUNE REGULATION

1436 The cAMP–Adenosine Feedback Loop Maintains the Suppressive Function of Regulatory T Cells
Wenru Su, Xiaoping Chen, Wenjie Zhu, Jianfeng Yu, Weihua Li, Yingqi Li, Zhuang Li, Nancy Olsen, Dan Liang, and Song Guo Zheng

1447 TNF Receptor–Associated Factor 5 Limits Function of Plasmacytoid Dendritic Cells by Controlling IFN Regulatory Factor 5 Expression
Shuhei Kobayashi, Tsuyoshi Sakurai, Takanori So, Yuka Shiota, Atsuko Asao, Hai The Phung, Riou Tanaka, Takeshi Kawabe, Takashi Maruyama, Emi Kanno, Kazuyoshi Kawakami, Yuji Owada, and Naoto Ishii

IMMUNE SYSTEM DEVELOPMENT

1457 IL-33 Is a Cell-Intrinsic Regulator of Fitness during Early B Cell Development

IMMUNOGENETICS

1480 Nasal Vaccination Drives Modifications of Nasal and Systemic Antibody Repertoires in Rainbow Trout
Susana Magadan, Luc Jouneau, Pierre Boudinot, and Irene Salinas

1493 Regulation of the Germinal Center Reaction and Somatic Hypermutation Dynamics by Homologous Recombination
Gianna Hirth, Carl-Magnus Svensson, Katrin Böttcher, Steffen Ullrich, Marc Thilo Figge, and Berit Jungnickel

IMMUNOTHERAPY AND VACCINES

1502 A Novel Vaccine Strategy to Overcome Poor Immunogenicity of Avian Influenza Vaccines through Mobilization of Memory CD4 T Cells Established by Seasonal Influenza
Anthony T. DiPiazza, Shufang Fan, Ajitanuj Rattan, Marta L. DeDiego, Francisco Chavez, Gabriele Neumann, Yoshihiro Kawashita, and Andrea J. Sant

INFECTIOUS DISEASE AND HOST RESPONSE

1509 T Cell–Intrinsic IL-6R Signaling Is Required for Optimal ICOS Expression and Viral Control during Chronic Infection
Kurt A. Wong, James A. Harker, Aleksandr Dolgoter, Nuha Marooki, and Elina I. Zuniga

INNATE IMMUNITY AND INFLAMMATION

1521 c-Abl–Mediated Tyrosine Phosphorylation of PARP1 Is Crucial for Expression of Proinflammatory Genes
Ameer Ali Bohio, Aman Sattout, Ruoxi Wang, Ke Wang, Rajiv Kumar Sab, Xiaoan Guo, Xianlu Zeng, Yuehuang Ke, Istvan Boldogh, and Xueqing Ba

1532 The BACH1–HMOX1 Regulatory Axis Is Indispensable for Proper Macrophage Subtype Specification and Skeletal Muscle Regeneration
Andreas Patsalos, Petros Tserpos, Laszlo Halasz, Gergely Nagy, Attila Pap, Nikolas Giannakis, Konstantina Lyroni, Vasiliki Koliaraki, Eva Pintye, Balazs Dezso, George Kollias, Charalampos G. Spilianakis, and Laszlo Nagy

1548 A Long Noncoding RNA, Antisense IL-7, Promotes Inflammatory Gene Transcription through Facilitating Histone Acetylation and Switch/Sucrose Nonfermentable Chromatin Remodeling
Xu Liu, Yajing Lu, Jie Zhu, Mingjia Liu, Minghong Xie, Menling Ye, Mingxuan Li, Shuhong Wang, Zhenping Ming, Qiang Tong, Feng Liu, and Rui Zhou

1560 YIPF5 Is Essential for Innate Immunity to DNA Virus and Facilitates COPII-Dependent STING Trafficking
Yong Ran, Mei-guang Xiong, Zhi-sheng Xu, Wei-wei Luo, Su-yun Wang, and Yan-Yi Wang

1571 Complement Component C5 and TLR Molecule CD14 Mediate Heme-Induced Thromboinflammation in Human Blood
Anub M. Thomas, Alexandra Gerogianni, Martin B. McAdam, Yingvar Floisand, Corinna Lau, Terje Espevik, Per H. Nilsson, Tom Eirik Mollnes, and Andreas Barratt-Due
A Negative Feedback Loop Regulates Integrin Inactivation and Promotes Neutrophil Recruitment to Inflammatory Sites
Barry McCormick, Helen E. Craig, Julia Y. Chu, Leo M. Carlin, Maria Canel, Florian Wollweber, Matilda Toivakka, Melina Michael, Anne L. Astier, Laura Norton, Johanna Lilja, Jennifer M. Felton, Takehiko Sasaki, Johanna Ivaska, Ingeborg Hers, Ian Dransfield, Adriano G. Rossi, and Sonja Vermeren

Retinoids Enhance the Expression of Cathelicidin Antimicrobial Peptide during Reactive Dermal Adipogenesis
Marc C. Liggins, Fengwu Li, Ling-juan Zhang, Tatsuya Dokushi, and Richard L. Gallo

Low Cellular NAD+ Compromises Lipopolysaccharide-Induced Inflammatory Responses via Inhibiting TLR4 Signal Transduction in Human Monocytes
Kuan Yang, Knut Husø Lauritzen, Maria Belland Olsen, Tuva Børresdatter Dahl, Trine Ranheim, Mohammed Shakil Ahmed, Håvard Attramadal, Pål Aukrust, Bente Halvorsen, Tuula Anneli Nyman, Øystein Sandanger, and Arne Yndestad

Influenza Vaccination Primes Human Myeloid Cell Cytokine Secretion and NK Cell Function
Helen R. Wagstaffe, Harry Pickering, Joanna Houghton, Jason P. Mooney, Asia-Sophia Wolf, Natalie Prevatt, Ron H. Behrens, Martin J. Holland, Elinor M. Riley, and Martin R. Goodier

Recognition of Class II MHC Peptide Ligands That Contain β-Amino Acids
Ross W. Cheloha, Andrew W. Woodham, Djenet Bousbaine, Tong Wang, Shi Liu, John Sidney, Alessandro Sette, Samuel H. Gellman, and Hidde L. Ploegh

KIR3DL1/S1 Allotypes Contribute Differentially to the Development of Behçet Disease
Harry Petrushkin, Paul J. Norman, Emma Lougee, Peter Parham, Graham R. Wallace, Miles R. Stanford, and Farida Fortune

Recognition of Class II MHC Peptide Ligands That Contain β-Amino Acids
Ross W. Cheloha, Andrew W. Woodham, Djenet Bousbaine, Tong Wang, Shi Liu, John Sidney, Alessandro Sette, Samuel H. Gellman, and Hidde L. Ploegh

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Recognition of Class II MHC Peptide Ligands That Contain β-Amino Acids
Ross W. Cheloha, Andrew W. Woodham, Djenet Bousbaine, Tong Wang, Shi Liu, John Sidney, Alessandro Sette, Samuel H. Gellman, and Hidde L. Ploegh

MUCOSAL IMMUNOLOGY

TRIM58 Restrains Intestinal Mucosal Inflammation by Negatively Regulating TLR2 in Myeloid Cells
Annette Eyking, Frederike Ferber, Stefanie Köhler, Henning Reis, and Elke Cario

SYSTEMS IMMUNOLOGY

Phenotypic and Ig Repertoire Analyses Indicate a Common Origin of IgD⁻CD27⁻ Double Negative B Cells in Healthy Individuals and Multiple Sclerosis Patients
Judith Fraussen, Susanna Marquez, Kazushiro Takata, Lien Beckers, Guendoline Montes Diaz, Chrysoula Zografou, Bart Van Wijngaerden, Luisa M. Villar, Kevin C. O'Connor, Steven H. Kleinstein, and Veerle Somers

TUMOR IMMUNOLOGY

EBV Latency III–Transformed B Cells Are Inducers of Conventional and Unconventional Regulatory T Cells in a PD-L1–Dependent Manner
Hélène Auclair, Catherine Ouk-Martin, Lilian Roland, Pauline Santa, Hazar Al Mohamad, Nathalie Faumont, Jean Feuillard, and Chantal Jayat-Vignoles

CORRECTIONS

Correction: Bcl2L12 Contributes to Th2-Biased Inflammation in the Intestinal Mucosa by Regulating CD4⁺ T Cell Activities
Mao-Gang Li, Xiao-Yu Liu, Zhi-Qiang Liu, Jing-Yi Hong, Jiang-Qi Liu, Cai-Jie Zhou, Tian-Yong Hu, Xiao-Jun Xiao, Pi-Xin Ran, Peng-Yuan Zheng, Zhi-Gang Liu, and Ping-Chang Yang

AUTHOR INDEX

Downloaded from http://www.jimmunol.org/ by guest on June 30, 2021