This information is current as of April 20, 2017.
IN THIS ISSUE

5037  IFN Blocks IL-2 Locus Remodeling  See article p. 5120
5039  IL-11 Exacerbates MS Inflammation  See article p. 5139
5039  Evading Immunity with Adenosine  See article p. 5312
5039  All About Autophagy  See articles p. 5407 and 5465
5039  Seeing C4b  See article p. 5488

LETTERS TO THE EDITOR

5039  Comment on “Radiation Exposure Induces Inflammasome Pathway Activation in Immune Cells”
Yoshiyuki Inoue and Masafumi Takahashi

5039  Response to Comment on “Radiation Exposure Induces Inflammasome Pathway Activation in Immune Cells”
James A. Lederer

PILLARS OF IMMUNOLOGY

5041  Kill or Be Killed
Edward M. Behrens and Randy Q. Cron

Susan E. Stepp, Rémi Dufourcq-Lagelouse, François Le Deist, Sadina Bhawan, Stéphanie Certain, Porunelloor A. Mathew, Jan-Inge Henter, Michael Bennett, Alain Fischer, Geneviève de Saint Basile, and Vinay Kumar

BRIEF REVIEWS

5047  Prospects for Therapeutic Targeting of MicroRNAs in Human Immunological Diseases
Marisa E. Luck, Stefan A. Muljo, and Colm B. Collins

The Biology and Disease Relevance of CD300a, an Inhibitory Receptor for Phosphatidylserine and Phosphatidylethanolamine
Olatz Zenarruzabeitia, Joana Vitallé, Cristina Eguizabal, Venkateswara R. Simhadri, and Francisco Borrego

ALLERGY AND OTHER HYPERSENSITIVITIES

Platelet-Driven Leukotriene C₄–Mediated Airway Inflammation in Mice Is Aspirin-Sensitive and Depends on T Prostanoid Receptors
Tao Liu, Denise Garofalo, Chanli Feng, Juaying Lai, Howard Katz, Tanya M. Laidlaw, and Joshua A. Boyce

Involvement of CD300a Phosphatidylserine Immunoreceptor in Aluminum Salt Adjuvant–Induced Th2 Responses
Haruka Miki, Chigusa Nakahashi-Oda, Takayuki Sumida, and Akira Shibuya

AUTOIMMUNITY

B Cell Antigen Presentation Is Sufficient To Drive Neuroinflammation in an Animal Model of Multiple Sclerosis

Expression of GM-CSF in T Cells Is Increased in Multiple Sclerosis and Suppressed by IFN-β Therapy
Javad Rasouli, Bagoljub Ciric, Jaime Imitola, Patricia Gonnella, Daniel Huang, Kedar Mahajan, Elisabeth R. Mari, Farinaz Safavi, Thomas P. Leist, Guang-Xian Zhang, and Abdulmohamad Rostami

Dual Inhibition of TNFR1 and IFNAR1 in Imiquimod-Induced Psoriasiform Skin Inflammation in Mice
Lynda Grine, Lien Dejager, Claude Libert, and Roosmarijn E. Vandenbroucke

A Humanized Monoclonal Antibody against Heat Shock Protein 60 Suppresses Murine Arthritis and Colitis and Skews the Cytokine Balance toward an Anti-Inflammatory Response
Rina Ulmansky, Dorit Landstein, Eli Moallem, Virginie Loeb, Avi Levin, Ronit Meyuhas, Galia Katzavian, Shira Yair, and Yaakov Naparstek

IL-37 Alleviates Rheumatoid Arthritis by Suppressing IL-17 and IL-17–Triggering Cytokine Production and Limiting Th17 Cell Proliferation
Liang Ye, Bo Jiang, Jun Deng, Jing Du, Wen Xiong, Youfei Guan, Zhongyang Wen, Kunzhao Huang, and Zhong Huang

IFN-β Selectively Inhibits IL-2 Production through CREM-Mediated Chromatin Remodeling
Dennis C. Otero, Nancy J. Fares-Frederickson, Menghong Xiao, Darren P. Baker, and Michael David

Anti–Factor H Autoantibodies in C3 Glomerulopathies and in Atypical Hemolytic Uremic Syndrome: One Target, Two Diseases
Caroline Blanc, Shambhuprasad Kotresh Tojarismalemoth, Sophie Chauvet, Moglie Le Quintrec, Bruno Moulin, Matthias Buchler, T. Sakari Jokiranta, Lubka T. Roumenina, Véronique Fremeaux-Bacchi, and Marie-Agnès Dragon-Durey

CLINICAL AND HUMAN IMMUNOLOGY

IL-11 Induces Th17 Cell Responses in Patients with Early Relapsing-Remitting Multiple Sclerosis
Xin Zhang, Yazhong Tao, Manisha Chopra, Irena Dujmovic-Basuroski, Jianping Jin, Yunan Tang, Jelena Drulovic, and Silva Markovic-Plese

CD14++CD16+ Monocytes Are Enriched by Glucocorticoid Treatment and Are Functionally Attenuated in Driving Effector T Cell Responses
Baoying Liu, Ashwin Dhanda, Sima Hirani, Emily L. Williams, H. Nida Sen, Fernando Martinez Estrada, David Ling, Ian Thompson, Megan Casady, Zhiyu Li, Han Si, William Tucker, Lai Wei, Shayma Jawad, Amel Sura, Jennifer Dailey, Susan Hannes, Ping Chen, Jason L. Chien, Siamon Gordon, Richard W. J. Lee, and Robert B. Nussenblatt

Upregulation of the N-Formyl Peptide Receptors in Scleroderma Fibroblasts Fosters the Switch to Myofibroblasts
Francesca Wanda Rosi, Filomena Napolitano, Ada Pesapane, Massimo Mascolo, Stefania Staibano, Marco Matucci-Cerinic, Serena Guiducci, Pia Ragno, Gaetano di Spigna, Loredana Ponziglione, Gianni Marone, Nunzia Montuori, and Amato de Paulis
IMMUNE REGULATION

5174 High Mitochondrial Respiration and Glycolytic Capacity Represent a Metabolic Phenotype of Human Tolerogenic Dendritic Cells
Frano Malinarich, Kaito Duan, Raudhah Abdull Hamid, Au Bijin, Wu Xue Lin, Michael Poidinger, Anna-Marie Fairhurst, and John E. Connolly

5187 T Follicular Helper, but Not Th1, Cell Differentiation in the Absence of Conventional Dendritic Cells
Madeleine W. Dahlgren, Tobias Gustafson-Hedberg, Megan Livingston, Helena Cucak, Samuel Alén, Ulf Yrild, and Bengt Johansson-Lindbom

5200 Collecting Lymphatic Vessel Permeability Facilitates Adipose Tissue Inflammation and Distribution of Antigen to Lymph Node–Homing Adipose Tissue Dendritic Cells
Emma L. Kuan, Stoyan Ivanov, Eric A. Bridenbaugh, Gabriel Victora, Wei Wang, Ed W. Childs, Andrew M. Platt, Claudia V. Jakubzick, Robert J. Mason, Anatoly A. Gasheva, Michel Nussenzweig, Melody A. Swartz, Michael L. Dustin, David C. Zawieja, and Gwendalyn J. Randolph

5211 Critical Role of Mast Cells and Peroxisome Proliferator–Activated Receptor γ in the Induction of Myeloid-Derived Suppressor Cells by Marijuana Cannabidiol In Vivo
Venkatesh L. Hegde, Udai P. Singh, Prakash S. Nagarkatti, and Mizzi Nagarkatti

5223 The Free Radical Scavenger NecroX-7 Attenuates Acute Graft-versus-Host Disease via Reciprocal Regulation of Th1/Regulatory T Cells and Inhibition of HMGB1 Release
Keon-Il Im, Nayoung Kim, Jung-Yeon Lim, Young-Sun Nam, Eun-Sol Lee, Eun-Jung Kim, Hyoung Jin Kim, Soon Ha Kim, and Seok-Goo Cho

5233 The Tolerogenic Function of Annexins on Apoptotic Cells Is Mediated by the Annexin Core Domain
Björn Linke, Lucie Abeler-Dörner, Veronika Jabndel, Alexandra Kurz, Andrea Mahr, Sandra Pfarr, Linda Linke, Peter H. Krammer, and Heiko Weyd

5243 C-Reactive Protein Directly Suppresses Th1 Cell Differentiation and Alleviates Experimental Autoimmune Encephalomyelitis
Lin Zhang, Shan-Hui Liu, Tyler T. Wright, Zhi-Yuan Shen, Hai-Yun Li, Wei Zhu, Lawrence A. Potempa, Shang-Rong Ji, Alexander J. Szalai, and Yi Wu

5253 Leptin Receptor Signaling in T Cells Is Required for Th17 Differentiation
Bernardo S. Reis, Kihyun Lee, Melanie H. Fanok, Cristina Mascaraque, Manal Amoury, Lillian B. Cohn, Aneta Rogoz, Olof S. Dallner, Pedro M. Moraes-Vieira, Ana I. Domingos, and Daniel Muscida

5261 Altered Connexin 43 Expression Underlies Age-Dependent Decrease of Regulatory T Cell Suppressor Function in Nonobese Diabetic Mice
Michal Kuczma, Cong-Yi Wang, Leszek Ignatowicz, Robert Gourdie, and Piotr Kraj

IMMUNE SYSTEM DEVELOPMENT

5272 Tumor-Associated and Disease-Associated Autoantibody Repertoires in Healthy Colostrum and Maternal and Newborn Cord Sera
Asaf Madi, Sharron Bransburg-Zabary, Ayala Maayan-Metzger, Gittit Dar, Eshel Ben-Jacob, and Irun R. Cohen

IMMUNOTHERAPY AND VACCINES

5282 Allogeneic Mature Human Dendritic Cells Generate Superior Alloreactive Regulatory T Cells in the Presence of IL-15

5294 Mechanistic Assessment of PD-1H Coinhibitory Receptor–Induced T Cell Tolerance to Allogeneic Antigens
Dallas B. Flies, Tomoe Higuchi, and Lieping Chen

5305 B7H6-Specific Bispecific T Cell Engagers Lead to Tumor Elimination and Host Antitumor Immunity
Ming-Ru Wu, Tong Zhang, Albert T. Gacerez, Tiffany A. Coupot, Leslie R. DeMars, and Charles L. Sentman
INFECTIONOUS DISEASE AND HOST RESPONSE

5312 Staphylococcus aureus Adenosine Inhibits sPLA2-IIA–Mediated Host Killing in the Airways
Erwan Pernet, Jérémy Bruzet, Laurent Guillaumot, Michel Chignard, Lhoussine Touqui, and Yongzheng Wu

5320 Viremic HIV Controllers Exhibit High Plasmacytoid Dendritic Cell–Reactive Opsonophagocytic IgG
Antibody Responses against HIV-1 p24 Associated with Greater Antibody Isotype Diversification
M. Christian Tjiam, James P. A. Taylor, Maznah A. Morshidi, Lucy Sarapura, Sally Burrows, Jeffrey N. Martin, Steven G. Deeks, Dino B. A. Tan, Silvia Lee, Sonia Fernandez, and Martyn A. French

5329 CD8+ TCR Bias and Immunodominance in HIV-1 Infection

5346 Early Effector Cells Survive the Contraction Phase in Malaria Infection and Generate Both Central
and Effector Memory T Cells
Michael M. Opata, Victor H. Carpio, Samad A. Ibitokou, Brian E. Dillon, Joshua M. Obiero, and Robin Stephens

5355 MicroRNA-125a Inhibits Autophagy Activation and Antimicrobial Responses during Mycobacterial
Infection
Jin Kyung Kim, Jae-Min Yuk, Soo Yeon Kim, Tae Sung Kim, Hyo Sun Jin, Chul-Su Yang, and Eun-Kyeong Jo

INNATE IMMUNITY AND INFLAMMATION

5366 C-Type Lectin Receptor MCL Facilitates Mincle Expression and Signaling through Complex Formation
Yasunobu Miyake, Masatsugu Oh-bora, and Sho Yamasaki

5375 HoxA10 Terminates Emergency Granulopoiesis by Increasing Expression of Triad1
Hao Wang, Ling Bei, Chirag A. Shah, Liping Hu, and Elizabeth A. Eklund

5388 Hypercapnia Inhibits Autophagy and Bacterial Killing in Human Macrophages by Increasing Expression of
Bcl-2 and Bcl-xL
S. Marina Castalino-Matsuda, Aisha Nair, Greg J. Beitel, Khalilab L. Gates, and Peter H. S. Sporn

5397 The Thrombin-Derived Host Defense Peptide GKY25 Inhibits Endotoxin-Induced Responses through
Interactions with Lipopolysaccharide and Macrophages/Monocytes
Finja C. Hansen, Martina Kalle-Brune, Mariena J. A. van der Plas, Ann-Charlotte Ström dahl, Martin Malmsten, Matthias Mögelin, and Artur Schmidtchen

5407 Critical Role for IL-18 in Spontaneous Lung Inflammation Caused by Autophagy Deficiency
Elmoataz Abdel Fattah, Abhisek Bhattacharya, Alan Herron, Zeevat Safdar, and N. Tony Eissa

5417 The Processed Amino-Terminal Fragment of Human TLR7 Acts as a Chaperone To Direct Human TLR7
into Endosomes
Madeleine M. Hipp, Dawn Shepherd, Sarah Booth, Dominic Waishe, Gaetano Reis e Sousa, and Vincenzo Cerundolo

5426 Endoplasmic Protein Nogo-B (RTN4-B) Interacts with GRAMD4 and Regulates TLR9-Mediated Innate
Immune Responses
Toshifumi Kimura, Shota Endo, Masanori Inui, Shin-Ichiroh Saitoh, Kenuke Miyake, and Toshiyuki Takai

5437 miR-155 Deficiency Ameliorates Autoimmune Inflammation of Systemic Lupus Erythematosus by
Targeting Slpr1 in Fas+/−/Slpr-/− Mice
Qian Xin, Jiangiea Li, Jie Dang, Xianli Bian, Shan Shan, Junping Yuan, Yanyan Qian, Zhaojian Liu, Guangyi Liu, Qianqian Yuan, Na Liu, Xiaochun Ma, Fei Gao, Yaoquin Gong, and Qiji Liu

5446 A New Approach for the Treatment of Arthritis in Mice with a Novel Conjugate of an Anti-C5aR1 Antibody
and C5 Small Interfering RNA
Gaurav Mehta, Robert I. Scheinman, V. Michael Holers, and Nirmal K. Banda

5455 Differential Activation of Inflammatory Pathways in Testicular Macrophages Provides a Rationale for Their
Subdued Inflammatory Capacity
Sudhanu Bhushan, Sreelin Tchatalbachev, Yongning Lu, Suada Fröhlich, Monika Fijak, Vijith Vijayan, Trinad Chakraborty, and Andreas Meinhards
The Lung Is Protected from Spontaneous Inflammation by Autophagy in Myeloid Cells
Masashi Kanayama, You-Wen He, and Mari L. Shinohara

Prostaglandin E2 Inhibits NLRP3 Inflammasome Activation through EP4 Receptor and Intracellular Cyclic AMP in Human Macrophages
Milena Sokolowska, Li-Yuan Chen, Yueqin Liu, Asuncion Martinez-Anton, Hai-Yan Qi, Carolea Logun, Sara Alsaaty, Yong Hwan Park, Daniel L. Kastner, Jae Jin Chae, and James H. Shelhamer

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Structural Basis for the Function of Complement Component C4 within the Classical and Lectin Pathways of Complement
Sofia Mortensen, Rune T. Kildmo, Steen V. Petersen, Agnes Szilágyi, Zoltan Prohászka, and Gregers R. Andersen

Fc Engineering of Human IgG1 for Altered Binding to the Neonatal Fc Receptor Affects Fc Effector Functions
Algirdas Greys, Malin Bern, Stian Foss, Diane Bryant Bratlie, Anders Moen, Kristin Søren Gunnarsen, Audun Aase, Terje Einar Michaelsen, Inger Sandlie, and Jan Terje Andersen

CXCL12 Regulates through JAK1 and JAK2 Formation of Productive Immunological Synapses
Graciela Cacicio, Nou B. Martín-Cófreces, José Miguel Rodríguez-Frade, Pilar López-Catárello, Gabriel Criado, José L. Pablo, José Luis Rodríguez-Fernández, Francisco Sánchez-Madrid, and Mario Mellado

MUCOSAL IMMUNOLOGY

Mature Cystic Fibrosis Airway Neutrophils Suppress T Cell Function: Evidence for a Role of Arginase 1 but Not Programmed Death-Ligand 1
Sarah A. Ingersoll, Julie Laval, Osric A. Forrest, Marcela Preininger, Milton R. Brown, Dalia Arafat, Greg Gibson, Vin Tangpricha, and Rabindra Tirouvanziam

TUMOR IMMUNOLOGY

Pulmonary Alveolar Macrophages Contribute to the Premetastatic Niche by Suppressing Antitumor T Cell Responses in the Lungs
Sharad K. Sharma, Navin K. Chintala, Surya Kumari Vadrevu, Jaipal Patel, Magdalena Karbowiczek, and Maciej M. Markiewski

Proinflammatory Proteins S100A8/S100A9 Activate NK Cells via Interaction with RAGE
Kenta Narumi, Reina Miyakawa, Ryosuke Ueda, Hisayoshi Hashimoto, Yuki Yamamoto, Teruhiko Yoshida, and Kazunori Aoki

NOVEL IMMUNOLOGICAL METHODS

A Haptotaxis Assay for Leukocytes Based on Surface-Bound Chemokine Gradients
Ina Rink, Jan Rink, Dorothea Helmer, Daniel Sachs, and Katja Schmitz

Peripheral Blood–Derived Virus-Specific Memory Stem T Cells Mature to Functional Effector Memory Subsets with Self-Renewal Potency

CORRECTIONS

Correction: Vector-Encoded Helicobacter pylori Neutrophil-Activating Protein Promotes Maturation of Dendritic Cells with Th1 Polarization and Improved Migration
Mohannaj Ramachandran, Chuau Jin, Di Yu, Fredrik Eriksen, and Magnus Esand

Correction: The Acute Respiratory Distress Syndrome: From Mechanism to Translation
SeungHye Han and Rama K. Mallampalli

Correction: In This Issue

AUTHOR INDEX