

TOP READS

- 453 **B Cell Master Regulator** *See article p. 481*
MHC March-Ing Along *See article p. 494*
An Unlikely Fibrosis Fellow *See article p. 524*
SARS-CoV-2–Specific T Cells *See article p. 580*

BRIEF REVIEWS

- 455 The Ugly Duckling Turned to Swan: A Change in Perception of Bystander-Activated Memory CD8 T Cells
Nicholas J. Maurice, Alexis K. Taber, and Martin Prlic

CUTTING EDGE

- 465 Cutting Edge: Heterogeneity in Cell Age Contributes to Functional Diversity of NK Cells
Nicholas M. Adams, Carlos Diaz-Salazar, Celeste Dang, Lewis L. Lanier, and Joseph C. Sun

ALLERGY AND OTHER HYPERSENSITIVITIES

- 471 A Critical Role for Na⁺/H⁺ Exchanger Regulatory Factor 1 in Modulating FcεRI-Mediated Mast Cell Activation
Ananth K. Kammala, Meesum Syed, Canchai Yang, Christopher J. Occhiuto, and Hariharan Subramanian

ANTIGEN RECOGNITION AND RESPONSES

- 481 GSK3 Restrains Germinal Center B Cells to Form Plasma Cells
Jeonghyun Lee, Hyosung Park, Jiwon Lim, Hyung-Seung Jin, Yoon Park, Yu-Jin Jung, Hyun-Jeong Ko, Sung-Il Yoon, Geun-Shik Lee, Pyeung-Hyeun Kim, Sun Shim Choi, Changchun Xiao, and Seung Goo Kang
- 494 Ubiquitination of MHC Class II by March-I Regulates Dendritic Cell Fitness
Hei Jung Kim, Joanna Bandola-Simon, Satoshi Ishido, Nathan W. Wong, Vishal N. Koparde, Maggie Cam, and Paul A. Roche

On the cover: The subcellular localization of IRF3 (red) and peste des petits ruminants virus P protein mutant (green) in poly(I:C)-transfected cells was determined by indirect fluorescence assay. The presence of P protein mutant with the deletion of 1–102 aa did not affect IRF3 nuclear import induced by poly (I:C). Li, P., Z. Zhu, W. Cao, F. Yang, X. Ma, H. Tian, K. Zhang, X. Liu, and H. Zheng. 2021. Dysregulation of the RIG-I-like receptor pathway signaling by peste des petits ruminants virus phosphoprotein. *J. Immunol.* 206: 566–579.

The Journal of Immunology (ISSN 0022-1767) is published twice each month by The American Association of Immunologists, Inc., 1451 Rockville Pike, Suite 650, Rockville, MD 20852, Phone: 301-634-7197, Fax: 301-246-8401. Subscription terms: New subscriptions and renewals begin January 1 and expire one year later (see <http://www.jimmunol.org/subscription> for prices and details). A special rate is available to members of The American Association of Immunologists, Inc. (see <http://www.aai.org/membership>). The American Association of Immunologists, Inc., is not responsible for undeliverable issues. Replacement issues can be obtained, if available, at the regular price of single issues (see <http://www.jimmunol.org/Subscription/Claims>). Reprints of individual articles are available only from authors. Periodicals postage paid at Rockville, MD 20852, and at additional mailing offices. Country of origin U.S.A. Printed on acid-free recyclable paper. Postmaster: Send address changes 60 days in advance to *The Journal of Immunology*, Subscription Department, 1451 Rockville Pike, Suite 650, Rockville, MD 20852. Copyright © 2021 by The American Association of Immunologists, Inc.

AUTOIMMUNITY

- 505 Deletion of *S100a8* and *S100a9* Enhances Skin Hyperplasia and Promotes the Th17 Response in Imiquimod-Induced Psoriasis
Joan Defrène, Sofiane Berrazouane, Nayeli Esparza, Nathalie Pagé, Marie-France Côté, Stéphane Gobeil, Fawzi Aoudjit, and Philippe A. Tessier

CLINICAL AND HUMAN IMMUNOLOGY

- 515 Low Vitamin D Status Is Associated with Inflammation in Patients with Chronic Obstructive Pulmonary Disease
Lin Fu, Jun Fei, Zhu-Xia Tan, Yuan-Hua Chen, Biao Hu, Hui-Xiang Xiang, Hui Zhao, and De-Xiang Xu
- 524 CD4⁺CTLs in Fibrosing Mediastinitis Linked to *Histoplasma capsulatum*
Hugues Allard-Chamard, Faisal Alsufyani, Naoki Kaneko, Kelly Xing, Cory Perugino, Vinay S. Mahajan, Joseph L. Wheat, George S. Deepe, Jr., James Loyd, and Shiv Pillai
- 531 Vitamin D₃-Induced Promotor Dissociation of PU.1 and YY1 Results in FcεRI Reduction on Dendritic Cells in Atopic Dermatitis
Nadine Herrmann, Tim J. Nümm, Kazumasa Iwamoto, Nicole Leib, Susanne Koch, Yasmin Majlesain, Laura Maintz, Helene Kirins, Sylvia Schnautz, and Thomas Bieber

IMMUNE REGULATION

- 540 The miR-23a~27a~24-2 microRNA Cluster Promotes Inflammatory Polarization of Macrophages
Austin Boucher, Nathan Klopfenstein, William Morgan Hallas, Jennifer Skibbe, Andrew Appert, Seok Hee Jang, Kirthi Pulakanti, Sridhar Rao, Karen D. Cowden Dahl, and Richard Dahl

IMMUNOTHERAPY AND VACCINES

- 554 Suppression of Experimental Autoimmune Encephalomyelitis by ILT3.Fc
Zheng Xu, Chun-Chieh Lin, Sophie Ho, George Vlad, and Nicole Suciu-Foca

INFECTIOUS DISEASE AND HOST RESPONSE

- 566 Dysregulation of the RIG-I-like Receptor Pathway Signaling by Peste des Petits Ruminants Virus Phosphoprotein
Pengfei Li, Zixiang Zhu, Weijun Cao, Fan Yang, Xusheng Ma, Hong Tian, Keshan Zhang, Xiangtao Liu, and Haixue Zheng
- 580 A Highly Specific Assay for the Detection of SARS-CoV-2-Reactive CD4⁺ and CD8⁺ T Cells in COVID-19 Patients
Henning Zelba, David Worbs, Johannes Harter, Natalia Pieper, Christina Kyzirakos-Feger, Simone Kayser, Marcel Seibold, Oliver Bartsch, Jiri Ködding, and Saskia Biskup
- 588 Semaphorin 3E Promotes Susceptibility to *Leishmania major* Infection in Mice by Suppressing CD4⁺ Th1 Cell Response
Nnamdi M. Ikeogu, Chidalu A. Edechi, Gloria N. Akaluka, Aida Feiz-Barazandeh, Romaniya R. Zayats, Enitan S. Salako, Somtochukwu S. Onwah, Chukuwunonso Onyilagha, Ping Jia, Zhirong Mou, Lianyu Shan, Thomas T. Murooka, Abdelilah S. Gounni, and Jude E. Uzonna
- 599 Repurposed Tocilizumab in Patients with Severe COVID-19
Jianbo Tian, Ming Zhang, Meng Jin, Fengqin Zhang, Qian Chu, Xiaoyang Wang, Can Chen, Huihui Yue, Li Zhang, Ronghui Du, Dong Zhao, Zhaofu Zeng, Yang Zhao, Kui Liu, Mengmei Wang, Ke Hu, Xiaoping Miao, and Huilan Zhang

INNATE IMMUNITY AND INFLAMMATION

- 607 MAP3K8 Regulates Cox-2-Mediated Prostaglandin E₂ Production in the Lung and Suppresses Pulmonary Inflammation and Fibrosis
Markella Zannikou, Ilianna Barbayianni, Dionysios Fanidis, Theodora Grigorakaki, Evlalia Vlachopoulou, Dimitris Konstantopoulos, Maria Fousteri, Ioanna Nikitopoulou, Anastasia Kotanidou, Eleanna Kaffe, and Vassilis Aidinis

- 621 Enhanced Proliferation of Ly6C⁺ Monocytes/Macrophages Contributes to Chronic Inflammation in Skin Wounds of Diabetic Mice
Jingbo Pang, Mark Maienschein-Cline, and Timothy J. Koh
- 631 *Salmonella* Flagellin Activates NAIP/NLRC4 and Canonical NLRP3 Inflammasomes in Human Macrophages
Anna M. Gram, John A. Wright, Robert J. Pickering, Nathaniel L. Lam, Lee M. Booty, Steve J. Webster, and Clare E. Bryant

MUCOSAL IMMUNOLOGY

- 641 Peculiar Phenotypic and Cytotoxic Features of Pulmonary Mucosal CD8 T Cells in People Living with HIV Receiving Long-Term Antiretroviral Therapy
Oussama Meziane, Yulia Alexandrova, Ronald Olivenstein, Franck P. Dupuy, Syim Salahuddin, Elaine Thomson, Marianna Orlova, Erwin Schurr, Petronela Ancuta, Madeleine Durand, Nicolas Chomont, Jérôme Estaquier, Nicole F. Bernard, Cecilia T. Costiniuk, and Mohammad-Ali Jenabian
- 652 Simultaneous Aerosol and Intramuscular Immunization with Influenza Vaccine Induces Powerful Protective Local T Cell and Systemic Antibody Immune Responses in Pigs
Veronica Martini, Basu Paudyal, Tiphany Chrun, Adam McNee, Matthew Edmans, Emmanuel Atangana Maze, Beckie Clark, Alejandro Nunez, Garry Dolton, Andrew Sewell, Peter Beverley, Ronan MacLoughlin, Alain Townsend, and Elma Tchilian

- 664 AUTHOR INDEX