

TOP READS

- 2595 **p38 α Inhibition Attenuates Atopic Dermatitis** *See article p. 2613*
AIDing a Diverse B Cell Repertoire *See article p. 2632*
IL-33/ST2 Axis Supports Sjogren's Syndrome *See article p. 2652*
Heterologous Prime-Boost HIV Vaccination *See article p. 2663*
IFN Signaling Protects Blastocyst Stem Cells *See article p. 2761*
Stitching Together the Colorectal Cancer Ligandome *See article p. 2856*

IMMUNOLOGY NOTES AND RESOURCES

- 2597 Comprehensive Update and Revision of Nomenclature on Complement C6 and C7 Variants
Mariam Massri, Luisa Foco, and Reinhard Würzner

ALLERGY AND OTHER HYPERSENSITIVITIES

- 2613 The Developmental Transcription Factor p63 Is Redeployed to Drive Allergic Skin Inflammation through Phosphorylation by p38 α
Yanek Jiménez-Andrade, Kathryn R. Hillette, Toshimi Yoshida, Mariko Kashiwagi, Min-Kyung Choo, Yinming Liang, Katia Georgopoulos, and Jin Mo Park
- 2622 Heat Shock Protein 90's Mechanistic Role in Contact Hypersensitivity
Seong-Min Kim, Bradley Studnitzer, and Aaron Esser-Kahn

ANTIGEN RECOGNITION AND RESPONSES

- 2632 Activation-Induced Cytidine Deaminase Impacts the Primary Antibody Repertoire in Naive Mice
Katherine Bao, Juan Zhang, Alexis Scherl, James Ziai, Azi Hadadianpour, Daqi Xu, Christopher Dela Cruz, John Liu, Yuxin Liang, Lucinda Tam, Cesar A. Corzo, Merone Roose-Girma, Soren Warming, Zora Modrusan, Wyne P. Lee, Kam Hon Hoi, and Ali A. Zarrin

On the cover: Following intraperitoneal injection, the growth of a murine high-grade B cell lymphoma of age-associated B cell origin (stained with Hoechst 33342 nuclear dye, blue) in the adipose mesentery of recipient mice (with ubiquitous expression of eGFP, green) induces the expansion of gp38⁺ fibroblastic reticular stromal cells (red/yellow). Jia, X., J. Bene, N. Balázs, K. Szabó, G. Berta, R. Herczeg, A. Gyenesei, and P. Balogh. 2022. Age-associated B cell features of the murine high-grade B cell lymphoma Bc.DLFL1 and its extranodal expansion in abdominal adipose tissues. *J. Immunol.* 208: 2866–2876.

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 © 2022 by The American Association of Immunologists, Inc.

AUTOIMMUNITY

- 2643 CD47 Promotes Autoimmune Valvular Carditis by Impairing Macrophage Efferocytosis and Enhancing Cytokine Production
Lee A. Meier, Jessica L. Faragher, Victoria Osinski, Jennifer L. Auger, Rochus Voeller, Aubyn Marath, and Bryce A. Binstadt
- 2652 The IL-33/ST2 Axis Promotes Primary Sjögren's Syndrome by Enhancing Salivary Epithelial Cell Activation and Type 1 Immune Response
Yuanji Dong, Bingxia Ming, Rongfen Gao, Qian Mo, Xuefen Wu, Fang Zheng, Jixin Zhong, and Lingli Dong

CLINICAL AND HUMAN IMMUNOLOGY

- 2663 T Cell Immunogenicity, Gene Expression Profile, and Safety of Four Heterologous Prime-Boost Combinations of HIV Vaccine Candidates in Healthy Volunteers: Results of the Randomized Multi-Arm Phase I/II ANRS VRI01 Trial
Laura Richert, Jean-Daniel Lelièvre, Christine Lacabartz, Lucile Hardel, Hakim Hocini, Aurélie Wiedemann, Frédéric Lucht, Isabelle Poizot-Martin, Claire Bauduin, Alpha Diallo, Véronique Rieux, Elodie Rouch, Mathieu Surenaud, Cécile Lefebvre, Emile Foucat, Pascaline Tisserand, Lydia Guillaumat, Mélanie Durand, Boris Hejblum, Odile Launay, Rodolphe Thiébaut, and Yves Lévy, on behalf of the ANRS VRI01 Study Group
- 2675 A Deep Learning Model for Accurate Diagnosis of Infection Using Antibody Repertoires
Yuan Chen, Zhiming Ye, Yanfang Zhang, Wenxi Xie, Qingyun Chen, Chunhong Lan, Xiujia Yang, Huikun Zeng, Yan Zhu, Cuiyu Ma, Haipei Tang, Qilong Wang, Junjie Guan, Sen Chen, Fenxiang Li, Wei Yang, Huacheng Yan, Xueqing Yu, and Zhenhai Zhang

IMMUNE REGULATION

- 2686 Zbtb46 Controls Dendritic Cell Activation by Reprogramming Epigenetic Regulation of *cd80/86* and *cd40* Costimulatory Signals in a Zebrafish Model
Tong Shao, Jian-fei Ji, Jia-yu Zheng, Chen Li, Lv-yun Zhu, Dong-Dong Fan, Ai-fu Lin, Li-xin Xiang, and Jian-zhong Shao
- 2702 Translational Control by 4E-BP1/2 Suppressor Proteins Regulates Mitochondrial Biosynthesis and Function during CD8⁺ T Cell Proliferation
Ioannis D. Dimitriou, David Meiri, Yulia Jitkova, Alisha R. Elford, Marianne Koritzinsky, Aaron D. Schimmer, Pamela S. Ohashi, Nahum Sonenberg, and Robert Rottapel

IMMUNE SYSTEM DEVELOPMENT

- 2713 Ontogeny of the B Cell Receptor Repertoire and Microbiome in Mice
Amit Gilboa, Ronen Hope, Shira Ben Simon, Pazit Polak, Omry Koren, and Gur Yaari

IMMUNOTHERAPY AND VACCINES

- 2726 SM03, an Anti-CD22 Antibody, Converts *Cis*-to-*Trans* Ligand Binding of CD22 against α 2,6-Linked Sialic Acid Glycans and Immunomodulates Systemic Autoimmune Diseases
Kin L. Wong, Zhengdong Li, Felix Ma, Dong Wang, Nan Song, Chi H. Chong, Ka K. Luk, and Shui O. Leung

INFECTIOUS DISEASE AND HOST RESPONSE

- 2738 Interactions with Asialo-Glycoprotein Receptors and Platelets Are Dispensable for CD8⁺ T Cell Localization in the Murine Liver
James H. O'Connor, Hayley A. McNamara, Yeping Cai, Lucy A. Coupland, Elizabeth E. Gardiner, Christopher R. Parish, Brendan J. McMorran, Vitaly V. Ganusov, and Ian A. Cockburn
- 2749 T-bet⁺ B cells Dominate the Peritoneal Cavity B Cell Response during Murine Intracellular Bacterial Infection
Krista L. Newell, Justin Cox, Adam T. Waickman, Joel R. Wilmore, and Gary M. Winslow

INNATE IMMUNITY AND INFLAMMATION

- 2761 Mouse Trophoblast Cells Can Provide IFN-Based Antiviral Protection to Embryonic Stem Cells via Paracrine Signaling
Mona Fendereski, Biswas Neupane, Farzana Nazneen, Fengwei Bai, and Yan-Lin Guo

- 2771 Thrombin Differentially Modulates the Acute Inflammatory Response to *Escherichia coli* and *Staphylococcus aureus* in Human Whole Blood
Christina Johnson, Huy Quang Quach, Corinna Lau, Karin Ekholm, Terje Espevik, Trent M. Woodruff, Søren Erik Pischke, Tom Eirik Mollnes, and Per H. Nilsson
- 2779 Fungal Patterns Induce Cytokine Expression through Fluxes of Metabolic Intermediates That Support Glycolysis and Oxidative Phosphorylation
Cristina Mancebo, José Javier Fernández, Carmen Herrero-Sánchez, Yolanda Alvarez, Sara Alonso, Tito A. Sandoval, Juan R. Cubillos-Ruiz, Olimpio Montero, Nieves Fernández, and Mariano Sánchez Crespo
- 2795 The Intracellular Interaction of Porcine β -Defensin 2 with VASH1 Alleviates Inflammation via Akt Signaling Pathway
Chao Huang, Yufan Sun, Xiuxiu Qiu, Jing Huang, Antian Wang, Qihong Zhang, Siqi Pang, Qi Huang, Rui Zhou, and Lu Li

MUCOSAL IMMUNOLOGY

- 2806 IFN- λ Diminishes the Severity of Viral Bronchiolitis in Neonatal Mice by Limiting NADPH Oxidase–Induced PAD4–Independent NETosis
Ismail Sebina, Ridwan B. Rashid, Md. Al Amin Sikder, Muhammed Mahfuzur Rahman, Tufael Ahmed, Daniel E. Radford-Smith, Sergei V. Kotenko, Geoffrey R. Hill, Tobias Bald, and Simon Phipps

TUMOR IMMUNOLOGY

- 2817 New Insights into the Mechanisms of Proteasome-Mediated Peptide Splicing Learned from Comparing Splicing Efficiency by Different Proteasome Subtypes
Violette Ferrari, Vincent Stroobant, Joanna Abi Habib, Stefan Naulaerts, Benoit J. Van den Eynde, and Nathalie Vigneron
- 2829 Detection of PD-L1–Expressing Myeloid Cell Clusters in the Hyaluronan-Enriched Stroma in Tumor Tissue and Tumor-Draining Lymph Nodes
Paul R. Dominguez-Gutierrez, Elizabeth P. Kwenda, William Donelan, Mariza Miranda, Andria Doty, Padraic O'Malley, Paul L. Crispen, and Sergei Kusmartsev
- 2837 Tissue-Resident Memory CD4⁺ T Cells Play a Dominant Role in the Initiation of Antitumor Immunity
Hui Zhang, Zhaohui Zhu, Samantha Modrak, and Alex Little
- 2847 STAT3 Activates the Pentraxin 3 Gene in Chronic Lymphocytic Leukemia Cells
Uri Rozovski, Ivo Veleć, David M. Harris, Ping Li, Zhiming Liu, Preetesh Jain, Taghi Manshouri, Alessandra Ferrajoli, Jan A. Burger, Prithviraj Bose, Phillip A. Thompson, Nitin Jain, William G. Wierda, Srdan Verstovsek, Michael J. Keating, and Zeev Estrov
- 2856 Characterization of Proteasome-Generated Spliced Peptides Detected by Mass Spectrometry
Koji Kato, Munehide Nakatsugawa, Serina Tokita, Yoshihiko Hirohashi, Terufumi Kubo, Tomohide Tsukahara, Kenji Murata, Hirofumi Chiba, Hiroki Takahashi, Naoto Hirano, Takayuki Kanaseki, and Toshihiko Torigoe
- 2866 Age-Associated B Cell Features of the Murine High-Grade B Cell Lymphoma Bc.DLFL1 and Its Extranodal Expansion in Abdominal Adipose Tissues
Xinkai Jia, Judit Bene, Noémi Balázs, Katalin Szabó, Gergely Berta, Róbert Herczeg, Attila Gyenesei, and Péter Balogh

2877 AUTHOR INDEX

2879 AUTHOR INDEX TO VOLUME 208