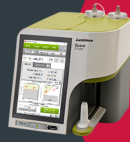


Luminex
complexity simplified.



Simple, Compact, and Affordable Cell Analysis.
Muse® Cell Analyzer. [Learn More >](#)



206 (9)

J Immunol 2021; 206:1979-2245; ;
<http://www.jimmunol.org/content/206/9>

This information is current as
of May 14, 2021.

Why *The JI*? [Submit online.](#)

- **Rapid Reviews! 30 days*** from submission to initial decision
- **No Triage!** Every submission reviewed by practicing scientists
- **Fast Publication!** 4 weeks from acceptance to publication

**average*

- Subscription** Information about subscribing to *The Journal of Immunology* is online at:
<http://jimmunol.org/subscription>
- Permissions** Submit copyright permission requests at:
<http://www.aai.org/About/Publications/JI/copyright.html>
- Email Alerts** Receive free email-alerts when new articles cite this article. Sign up at:
<http://jimmunol.org/alerts>

The Journal of Immunology is published twice each month by
The American Association of Immunologists, Inc.,
1451 Rockville Pike, Suite 650, Rockville, MD 20852
All rights reserved.
Print ISSN: 0022-1767 Online ISSN: 1550-6606.



TOP READS

- 1979 **Airway Inflammation and the Gut** *See article p. 1991*
Fishy Maternal IgZ *See article p. 2001*
STING Agonist as an MS Treatment *See article p. 2015*
BATF Regulates Treg Function *See article p. 2088*
Sepsis Sentries *See article p. 2135*
Complementing the Proprotein Convertase System *See article p. 2198*

PILLARS OF IMMUNOLOGY

- 1981 A Fateful Decision in the Thymus Controlled by the Transcription Factor ThPOK
Takeshi Egawa

BRIEF REVIEWS

- 1983 Ectonucleotidases in Inflammation, Immunity, and Cancer
Clarissa Branco Haas, Marianna Lovászi, Elizandra Braganhol, Pál Pacher, and György Haskó

ALLERGY AND OTHER HYPERSENSITIVITIES

- 1991 Ovalbumin-Induced Airway Inflammation Is Ameliorated in Dectin-1–Deficient Mice, in Which Pulmonary Regulatory T Cells Are Expanded through Modification of Intestinal Commensal Bacteria
Wei Han, Ce Tang, Seiya Baba, Tomofumi Hamada, Tomoyuki Shimazu, and Yoichiro Iwakura

ANTIGEN RECOGNITION AND RESPONSES

- 2001 New Insights into IgZ as a Maternal Transfer Ig Contributing to the Early Defense of Fish against Pathogen Infection
Jian-fei Ji, Chong-bin Hu, Nan Zhang, Xiao Huang, Tong Shao, Dong-dong Fan, Ai-fu Lin, Li-xin Xiang, and Jian-zhong Shao

On the cover: The plot shows changes in the taxonomical composition of the intestinal microbiota of laboratory animals (wild-type C57BL/6 mice and transgenic V5 mice) after cohousing with feral mice. Color bars represent proportions of dominant bacterial classes in each sample. Moudra, A., V. Niederlova, J. Novotny, L. Schmiedova, J. Kubovciak, T. Matejkova, A. Drobek, M. Pribikova, R. Stopkova, D. Cizkova, A. Neuwirth, J. Michalik, K. Krizova, T. Hudcovic, M. Kolar, H. Kozakova, J. Kreisinger, P. Stopka, and O. Stepanek. 2021. Phenotypic and clonal stability of antigen-inexperienced memory-like T cells across the genetic background, hygienic status, and aging. *J. Immunol.* 206: 2109–2121.

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

- 2015 STING Agonist Mitigates Experimental Autoimmune Encephalomyelitis by Stimulating Type I IFN-Dependent and -Independent Immune-Regulatory Pathways
Brandon M. Johnson, Toru Uchimura, Matthew D. Gallovic, Madhan Thamilarasan, Wei-Chun Chou, Sara A. Gibson, Meng Deng, Jason W. Tam, Cole J. Batty, Jonathan Williams, Glenn K. Matsushima, Eric M. Bachelder, Kristy M. Ainslie, Silva Markovic-Plese, and Jenny P.-Y. Ting
- 2029 Conditional Deletions of *Hdc* Confirm Roles of Histamine in Anaphylaxis and Circadian Activity but Not in Autoimmune Encephalomyelitis
Françoise Morin, Noopur Singh, Julius Baya Mdzomba, Aline Dumas, Vincent Pernet, and Luc Vallières

CLINICAL AND HUMAN IMMUNOLOGY

- 2038 HLA Class I Polymorphisms Influencing Both Peptide Binding and KIR Interactions Are Associated with Remission among Children with Atopic Dermatitis: A Longitudinal Study
David J. Margolis, Nandita Mitra, Brian S. Kim, Jamie L. Duke, Ron A. Berna, Ole J. Hoffstad, Jenna R. Wasserman, Deborah A. Ferriola, Tim L. Mosbrugger, Bradley S. Wubbenhorst, Kathrine L. Nathanson, and Dimitri S. Monos
- 2045 Autoreactivity of Peripheral Helper T Cells in the Joints of Rheumatoid Arthritis
Takahide Sakuragi, Hisakata Yamada, Akihisa Haraguchi, Kazuhiro Kai, Jun-ichi Fukushi, Satoshi Ikemura, Yukio Akasaki, Toshifumi Fujiwara, Hidetoshi Tsushima, Tomoko Tsutsui, Masakazu Kondo, Yasunobu Yoshikai, Seiji Okada, and Yasuharu Nakashima

IMMUNE REGULATION

- 2052 Long Noncoding RNA RUNXOR Promotes Myeloid-Derived Suppressor Cell Expansion and Functions via Enhancing Immunosuppressive Molecule Expressions during Latent HIV Infection
Jinyu Zhang, Bal Krishna Chand Thakuri, Juan Zhao, Lam N. Nguyen, Lam N. T. Nguyen, Sushant Khanal, Dechao Cao, Xindi Dang, Madison Schank, Zeyuan Lu, Xiao Y. Wu, Zheng D. Morrison, Mohamed El Gazzar, Yong Jiang, Shunbin Ning, Ling Wang, Jonathan P. Moorman, and Zhi Q. Yao
- 2061 Regulation of Anion Channel LRRC8 Volume-Regulated Anion Channels in Transport of 2'3'-Cyclic GMP-AMP and Cisplatin under Steady State and Inflammation
Xia Chen, Li Wang, Limin Cao, Tiantian Li, Zhibong Li, Yumeng Sun, Jinqiu Ding, Chun Zhou, Yadong Xie, Nan Yue, Jing Nan, Xin-Ming Jia, Chao Peng, Huabin Li, Jinbo Yang, and Hui Xiao
- 2075 Metabolomic Profiles in the Intestine of Shrimp Infected by White Spot Syndrome Virus and Antiviral Function of the Metabolite Linoleic Acid in Shrimp
Cang Li, Ming-Chong Yang, Pan-Pan Hong, Xiao-Fan Zhao, and Jin-Xing Wang
- 2088 BATF Regulates T Regulatory Cell Functional Specification and Fitness of Triglyceride Metabolism in Restraining Allergic Responses
Chengxian Xu, Yongyao Fu, Sheng Liu, Jack Trittipio, Xiaoyu Lu, Rong Qi, Hong Du, Cong Yan, Chi Zhang, Jun Wan, Mark H. Kaplan, and Kai Yang
- 2101 Amelioration of Graft-versus-Host Disease by Exopolysaccharide from a Commensal Bacterium
Olga Kalinina, Sarah Talley, Jesus Zamora-Pineda, Wonbeom Paik, Edward M. Campbell, and Katherine L. Knight

IMMUNE SYSTEM DEVELOPMENT

- 2109 Phenotypic and Clonal Stability of Antigen-Inexperienced Memory-like T Cells across the Genetic Background, Hygienic Status, and Aging
Alena Moudra, Veronika Niederlova, Jiri Novotny, Lucie Schmiedova, Jan Kubovciak, Tereza Matejkova, Ales Drobek, Michaela Pribikova, Romana Stopkova, Dagmar Cizkova, Ales Newirth, Juraj Michalik, Katerina Krizova, Tomas Hudcovic, Michal Kolar, Hana Kozakova, Jakub Kreisinger, Pavel Stopka, and Ondrej Stepanek

IMMUNOTHERAPY AND VACCINES

- 2122 Prefusion F–Based Polyanhydride Nanovaccine Induces Both Humoral and Cell-Mediated Immunity Resulting in Long-Lasting Protection against Respiratory Syncytial Virus
Laura M. Stephens, Kathleen A. Ross, Kody A. Waldstein, Kevin L. Legge, Jason S. McLellan, Balaji Narasimhan, and Steven M. Varga

INFECTIOUS DISEASE AND HOST RESPONSE

- 2135 Novel Mouse Model Reveals That Serine Phosphorylation of L-Plastin Is Essential for Effective Splenic Clearance of Pneumococcus
Edgar P. Anaya, Xue Lin, Elizabeth M. Todd, Taylor P. Szasz, and S. Celeste Morley
- 2146 Longitudinal Peripheral Blood Transcriptional Analysis Reveals Molecular Signatures of Disease Progression in COVID-19 Patients
Qihong Yan, Pingchao Li, Xianmiao Ye, Xiaohan Huang, Bo Feng, Tianxing Ji, Zhilong Chen, Feng Li, Yudi Zhang, Kun Luo, Fengjuan Chen, Xiaoneng Mo, Jianhua Wang, Liqiang Feng, Fengyu Hu, Chunliang Lei, Linbing Qu, and Ling Chen
- 2160 IL-27/IL-27R Mediates Protective Immunity against Chlamydial Infection by Suppressing Excessive Th17 Responses and Reducing Neutrophil Inflammation
Xiaoyu Zha, Shuaini Yang, Wenhao Niu, Lu Tan, Yueyue Xu, Jiajia Zeng, Yingying Tang, Lida Sun, Gaoju Pang, Sai Qiao, Hong Zhang, Tengli Liu, Huili Zhao, Ningbo Zheng, Yongci Zhang, and Hong Bai
- 2170 Kdm6b Regulates the Generation of Effector CD8⁺ T Cells by Inducing Chromatin Accessibility in Effector-Associated Genes
Tianhao Xu, Alexander Schutte, Leandro Jimenez, Andre N. A. Gonçalves, Ashleigh Keller, Matthew E. Pipkin, Helder I. Nakaya, Renata M. Pereira, and Gustavo J. Martinez

INNATE IMMUNITY AND INFLAMMATION

- 2184 IFIT5 Negatively Regulates the Type I IFN Pathway by Disrupting TBK1–IKKε–IRF3 Signalosome and Degrading IRF3 and IKKε
Na Zhang, Han Shi, Miaomiao Yan, and Guangliang Liu
- 2198 Proprotein Convertase Is the Highest-Level Activator of the Alternative Complement Pathway in the Blood
Gábor Oroszlán, Rábel Dani, Barbara M. Vég, Dóra Varga, Andrea V. Ács, Gábor Pál, Péter Závodszky, Henriette Farkas, Péter Gál, and József Dobó
- 2206 Interplay between NOD1 and TLR4 Receptors in Macrophages: Nonsynergistic Activation of Signaling Pathways Results in Synergistic Induction of Proinflammatory Gene Expression
Anna S. Budikhina, Nina E. Murugina, Polina V. Maximchik, Yulia A. Dagil, Anna M. Nikolaeva, Lyudmila S. Balyasova, Vladimir V. Murugin, Elizaveta M. Selezneva, Yulia G. Pashchenkova, Georgy Z. Chkadua, Boris V. Pinegin, and Mikhail V. Pashenkov

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 2221 The Murine MHC Class II Super Enhancer *IA/IE-SE* Contains a Functionally Redundant CTCF-Binding Component and a Novel Element Critical for Maximal Expression
Parimal Majumder, Joshua T. Lee, Benjamin G. Barwick, Dillon G. Patterson, Alexander P. R. Bally, Christopher D. Scharer, and Jeremy M. Boss

MUCOSAL IMMUNOLOGY

- 2233 Monocyte-Derived Dendritic Cells (moDCs) Differentiate into Bcl6⁺ Mature moDCs to Promote Cyclic di-GMP Vaccine Adjuvant-Induced Memory T_H Cells in the Lung
Samira Mansouri, Divya S. Katikaneni, Himanshu Gogoi, and Lei Jin

- 2246 AUTHOR INDEX