



This information is current as  
of September 20, 2017.

- 
- 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>

## IN THIS ISSUE

- 1947 **DC Notch Knocks Down Th17 Differentiation** *See article p. 1989*  
**Macrophages Lock Up  $\gamma\delta$  T Cells in Lymph Nodes** *See article p. 1998*  
**Suppression of Neonatal Immunity by CD71<sup>+</sup> Cells** *See article p. 2081*

## BRIEF REVIEWS

- 1949 Cytokine-Mediated Regulation of Human Lymphocyte Development and Function: Insights from Primary Immunodeficiencies  
*Stuart G. Tangye, Simon J. Pelham, Elissa K. Deenick, and Cindy S. Ma*

## CUTTING EDGE

- 1961 Cutting Edge: 2B4-Mediated Coinhibition of CD4<sup>+</sup> T Cells Underlies Mortality in Experimental Sepsis  
*Ching-wen Chen, Rohit Mittal, Nathan J. Klingensmith, Eileen M. Burd, Cox Terhorst, Greg S. Martin, Craig M. Coopersmith, and Mandy L. Ford*
- 1967 Cutting Edge: IL-2-Induced Expression of the Amino Acid Transporters SLC1A5 and CD98 Is a Prerequisite for NKG2D-Mediated Activation of Human NK Cells  
*Helle Jensen, Marc Potempa, Dagmar Gotthardt, and Lewis L. Lanier*
- 1973 Cutting Edge: Murine NK Cells Degranulate and Retain Cytotoxic Function without Store-Operated Calcium Entry  
*Jacquelyn Freund-Brown, Ruth Choa, Brenal K. Singh, Tanner Ford Robertson, Gabrielle M. Ferry, Eric Viver, Hamid Bassiri, Janis K. Burkhardt, and Taku Kambayashi*

## AUTOIMMUNITY

- 1979 IFN- $\alpha$  Negatively Regulates the Expression of Endothelial Nitric Oxide Synthase and Nitric Oxide Production: Implications for Systemic Lupus Erythematosus  
*Joy Jones Buie, Ludivine L. Renaud, Robin Muise-Helmericks, and Jim C. Oates*

On the cover: Location of ROR $\gamma$ t<sup>+</sup> and ROR $\gamma$ t<sup>-</sup>  $\gamma\delta$  T cells within peripheral lymph nodes from mice. Representative immunofluorescence TCR $\gamma\delta$  (red), CD169 (blue) and ROR $\gamma$ t-GFP (green) staining of fixed peripheral lymph node slices (maxillary lymph node is shown here). ROR $\gamma$ t<sup>+</sup>  $\gamma\delta$  T cells appear in yellow. Audemard-Verger, A., M. Rivière, A. Durand, E. Peranzoni, V. Guichard, P. Hamon, N. Bonilla, T. Guilbert, A. Boissonnas, C. Auffray, G. Eberl, B. Lucas, and B. Martin. 2017. Macrophages induce long-term trapping of  $\gamma\delta$  T cells with innate-like properties within secondary lymphoid organs in the steady state. *J. Immunol.* 199:1998–2007.

*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: 301-634-7829. 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 © 2017 by The American Association of Immunologists, Inc.

- 1989 Notch Balances Th17 and Induced Regulatory T Cell Functions in Dendritic Cells by Regulating *Aldh1a2* Expression  
*Taskia Sultana Zaman, Hideki Arimochi, Satoshi Maruyama, Chieko Ishifune, Shin-ichi Tsukumo, Akiko Kitamura, and Koji Yasutomo*

## IMMUNE REGULATION

- 1998 Macrophages Induce Long-Term Trapping of  $\gamma\delta$  T Cells with Innate-like Properties within Secondary Lymphoid Organs in the Steady State  
*Alexandra Audemard-Verger, Matthieu Rivière, Aurélie Durand, Elisa Peranzoni, Vincent Guichard, Pauline Hamon, Nelly Bonilla, Thomas Guilbert, Alexandre Boissonnas, Cédric Auffray, Gérard Eberl, Bruno Lucas, and Bruno Martin*
- 2008 Lamtor1 Is Critically Required for CD4<sup>+</sup> T Cell Proliferation and Regulatory T Cell Suppressive Function  
*Takashi Hosokawa, Tetsuya Kimura, Shigeyuki Nada, Tatsusada Okuno, Daisuke Ito, Sujin Kang, Satoshi Nojima, Kazuya Yamashita, Takeshi Nakatani, Yoshitomo Hayama, Yasuhiro Kato, Yuhei Kinehara, Masayuki Nishide, Norihisa Mikami, Syohei Koyama, Hyota Takamatsu, Daisuke Okuzaki, Naganari Ohkura, Shimon Sakaguchi, Masato Okada, and Atsushi Kumanogoh*
- 2020 PD-L2 Regulates B-1 Cell Antibody Production against Phosphorylcholine through an IL-5-Dependent Mechanism  
*Jerome T. McKay, Marcela A. Haro, Christina A. Daly, Rama D. Yammani, Bing Pang, W. Edward Swords, and Karen M. Haas*

## IMMUNOGENETICS

- 2030  $\alpha 3$ -Deletion Isoform of HLA-A11 Modulates Cytotoxicity of NK Cells: Correlations with HIV-1 Infection of Cells  
*Xi-He Zhang, Xiao-Dong Lian, Zheng-Xi Dai, Hong-Yi Zheng, Xin Chen, and Yong-Tang Zheng*

## INFECTIOUS DISEASE AND HOST RESPONSE

- 2043 Resolvin D1 Improves the Resolution of Inflammation via Activating NF- $\kappa$ B p50/p50-Mediated Cyclooxygenase-2 Expression in Acute Respiratory Distress Syndrome  
*Ye Gao, Huawei Zhang, Lingchun Luo, Jing Lin, Dan Li, Sisi Zheng, Hua Huang, Songfan Yan, Jingxiang Yang, Yu Hao, Hui Li, Fang Gao Smith, and Shengwei Jin*
- 2055 Dectin-1 Activation during *Leishmania amazonensis* Phagocytosis Prompts Syk-Dependent Reactive Oxygen Species Production To Trigger Inflammasome Assembly and Restriction of Parasite Replication  
*Djalma S. Lima-Junior, Tiago W. P. Mineo, Vera L. G. Calich, and Dario S. Zamboni*
- 2069 HIV-1 Infection Is Associated with Depletion and Functional Impairment of *Mycobacterium tuberculosis*-Specific CD4 T Cells in Individuals with Latent Tuberculosis Infection  
*Cheryl L. Day, Deborah A. Abrahams, Leville D. Harris, Michele van Rooyen, Lynnett Stone, Marwou de Kock, and Willem A. Hanekom*
- 2081 Erythroid Suppressor Cells Compromise Neonatal Immune Response against *Bordetella pertussis*  
*Garett Dunsmore, Najmeh Bozorgmehr, Cole Delyea, Petya Koleva, Afshin Namdar, and Shokrollah Elahi*

## INNATE IMMUNITY AND INFLAMMATION

- 2096 The Lipid Kinase PIKfyve Coordinates the Neutrophil Immune Response through the Activation of the Rac GTPase  
*Roya M. Dayam, Chun X. Sun, Christopher H. Choy, Gemma Mancuso, Michael Glogauer, and Roberto J. Botelho*
- 2106 Extracellular MicroRNAs Induce Potent Innate Immune Responses via TLR7/MyD88-Dependent Mechanisms  
*Yan Feng, Lin Zou, Dan Yan, Hongliang Chen, Ganqiong Xu, Wenling Jian, Ping Cui, and Wei Chao*
- 2118 DOCK8 Drives Src-Dependent NK Cell Effector Function  
*Conor J. Kearney, Stephin J. Vervoort, Kelly M. Ramsbottom, Andrew J. Freeman, Jessica Michie, Jane Peake, Jean-Laurent Casanova, Capucine Picard, Stuart G. Tangye, Cindy S. Ma, Ricky W. Johnstone, Katrina L. Randall, and Jane O'liaro*

- 2128 Integrin-Linked Kinase Expression in Myeloid Cells Promotes Inflammatory Signaling during Experimental Colitis  
*Afsar U. Ahmed, Howard C. H. Yim, Mariah Alorro, Matthias Ernst, and Bryan R. G. Williams*
- 2140 IL-33 Signaling Regulates Innate IL-17A and IL-22 Production via Suppression of Prostaglandin E<sub>2</sub> during Lung Fungal Infection  
*Jaleesa M. Garth, Kristen M. Reeder, Matthew S. Godwin, Joseph J. Mackel, Chad W. Dunaway, Jonathan P. Blackburn, and Chad Steele*
- 2149 Oxidized Low-Density Lipoprotein Loading of Macrophages Downregulates TLR-Induced Proinflammatory Responses in a Gene-Specific and Temporal Manner through Transcriptional Control  
*Jenny Jongstra-Bilen, Cindy X. Zhang, Timothy Wisnicki, Mengyi K. Li, Samantha White-Alfred, Ragave Ilaalagan, Dario M. Ferri, Ashley Deonarain, Mark H. Wan, Sharon J. Hyduk, Carolyn L. Cummins, and Myron I. Cybulsky*

## MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 2158 Analysis of Factor D Isoforms in Malpuech–Michels–Mingarelli–Carnevale Patients Highlights the Role of MASP-3 as a Maturase in the Alternative Pathway of Complement  
*Rasmus Pihl, Lisbeth Jensen, Annette G. Hansen, Ida B. Thøgersen, Stephanie Andres, Frederik Dagnæs-Hansen, Konrad Oexle, Jan J. Enghild, and Steffen Thiel*

## SYSTEMS IMMUNOLOGY

- 2171 Deep Immune Profiling of an Arginine-Enriched Nutritional Intervention in Patients Undergoing Surgery  
*Nima Aghaeepour, Cindy Kin, Edward A. Ganio, Kent P. Jensen, Dyani K. Gaudilliere, Martha Tingle, Amy Tsai, Hope L. Lancero, Benjamin Choisy, Leslie S. McNeil, Robin Okada, Andrew A. Shelton, Garry P. Nolan, Martin S. Angst, and Brice L. Gaudilliere*

- 2181 AUTHOR INDEX