### IN THIS ISSUE

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1329</td>
<td>Helping B Cells in the Tonsil [See article p. 1359]</td>
</tr>
<tr>
<td>1359</td>
<td>Membrane-Associated Proteinase 3 Inhibits T Cell Proliferation [See article p. 1389]</td>
</tr>
<tr>
<td>1389</td>
<td>Modeling T&lt;sub&gt;rem&lt;/sub&gt; Dynamics during HSV-2 Infection [See article p. 1522]</td>
</tr>
<tr>
<td>1522</td>
<td>ODN and IL-15 Synergy during B-CLL Growth [See article p. 1570]</td>
</tr>
</tbody>
</table>

### PILLARS OF IMMUNOLOGY

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1331</td>
<td>A Convergent Immunological Holy Trinity of Adaptive Immunity in Lampreys: Discovery of the Variable Lymphocyte Receptors &lt;br&gt; Martin F. Flajnik</td>
</tr>
</tbody>
</table>

### BRIEF REVIEWS

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
</table>

### CUTTING EDGE

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1353</td>
<td>Cutting Edge: Deletion of Ezrin in B Cells of Lyn-Deficient Mice Downregulates Lupus Pathology &lt;br&gt; Debasis Pore, Emily Huang, Dina Dejanovic, Neetha Parameswaran, Michael B. Cheung, and Neetu Gupta</td>
</tr>
</tbody>
</table>

### CLINICAL AND HUMAN IMMUNOLOGY

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1359</td>
<td>Human Extrafollicular CD4&lt;sup&gt;+&lt;/sup&gt; Th Cells Help Memory B Cells Produce Igs &lt;br&gt; Sang Taek Kim, Jin-Young Choi, Begona Lainez, Vincent P. Schulz, David E. Karas, Eric D. Baum, Jennifer Setlur, Patrick G. Gallagher, and Joe Craft</td>
</tr>
</tbody>
</table>

---

Characterization of a Synovial B Cell–Derived Recombinant Monoclonal Antibody Targeting Stromal Calreticulin in the Rheumatoid Joints
Elisa Corsiero, Lucas Jagemann, Mauro Perretti, Costantino Pitzalis, and Michele Bombardieri

A Pilot Study To Investigate the Immune-Modulatory Effects of Fasting in Steroid-Naive Mild Asthmatics
Kim Han, An Nguyen, Javier Traba, Xianglan Yao, Maryann Kaler, Rebecca D. Huffitutler, Stewart J. Levine, and Michael N. Sack

IMMUNE REGULATION

Membrane-Associated Proteinase 3 on Granulocytes and Acute Myeloid Leukemia Inhibits T Cell Proliferation
Tian-Hui Yang, Lisa S. St. John, Haven R. Garber, Celine Kerros, Kathryn E. Ruisaard, Karen Clise-Dwyer, Gheath Alatrash, Qing Ma, and Jeffrey J. Molldrem

Mannose Metabolism Is Essential for Th1 Cell Differentiation and IFN-γ Production
Beata M. Zygmunt, Agnieszka Wegrzyń, Weronika Gajkia, Tetiana Yessa, Grzegorz Chodaczek, and Carlos A. Guzmán

miR-340 Alleviates Psoriasis in Mice through Direct Targeting of IL-17A
Jiang Bian, Rauling Liu, Tingting Fan, Lijuan Liao, Shaowen Wang, Wenwen Geng, Ting Wang, Weiyan Shi, and Qingguo Ruan

Mycobacterial PknG Targets the Rab7l1 Signaling Pathway To Inhibit Phagosome–Lysosome Fusion
Gourango Pradhan, Rohini Shrivastva, and Sangita Mukhopadhyay

Targeting Antigen-Specific B Cells Using Antigen-Expressing Transduced Regulatory T Cells
Ai-Hong Zhang, Jeongheon Yoon, Yong Chan Kim, and David W. Scott

IMMUNE SYSTEM DEVELOPMENT

B Cell Defects Observed in Nod2 Knockout Mice Are a Consequence of a Dock2 Mutation Frequently Found in Inbred Strains
Serre-Yu Wong, Maryline Coffre, Deepshika Ramanan, Marcus J. Hines, Luis E. Gomez, Lauren A. Peters, Eric E. Schadt, Sergei B. Koralov, and Ken Cadwell

Id3 Restricts γδ NKT Cell Expansion by Controlling Egr2 and c-Myc Activity
Baojun Zhang, Anjun Jiao, Meifang Dai, David L. Wiest, and Yuan Zhuang

IMMUNOGENETICS

Analysis of KIR3DP1 Polymorphism Provides Relevant Information on Centromeric KIR Gene Content
Maria Bono, Daniela Pende, Alice Bertaina, Alessandro Moretta, Mariella Della Chiesa, Simona Sivori, Marco Zecca, Franco Locatelli, Lorenzo Moretta, Cristina Bottino, and Michela Falco

INFECTIOUS DISEASE AND HOST RESPONSE

Myeloid Dendritic Cells Induce HIV Latency in Proliferating CD4+ T Cells
Nitisha A. Kumar, Renee M. van der Sluis, Talia Mota, Rachel Pascoe, Vanessa A. Evans, Sharon R. Lewin, and Paul U. Cameron

NK Cell–Derived IFN-γ Protects against Nontuberculous Mycobacterial Lung Infection
Hsin-Chih Lai, Chih-Jung Chang, Chuan-Sheng Lin, Tsung-Ru Wu, Ya-Jing Hsu, Ting-Shi Wu, Jang-Jib Lu, Jan Martel, David M. Ojcius, Cheng-Lung Ku, John D. Young, and Chia-Chen Lu

INNATE IMMUNITY AND INFLAMMATION

Kavain Reduces Porphyromonas gingivalis–Induced Adipocyte Inflammation: Role of PGC-1α Signaling
Shailendra P. Singh, Olivier Huck, Nader G. Abraham, and Salomon Amar

Functional Evidence of Pulmonary Extracellular Vesicles in Infectious and Noninfectious Lung Inflammation
Heedoo Lee, Duo Zhang, Debra L. Laskin, and Yang Jin
1510 Toll-like Receptor 4–Induced Glycolytic Burst in Human Monocyte-Derived Dendritic Cells Results from p38-Dependent Stabilization of HIF-1α and Increased Hexokinase II Expression
Laure Perrin-Cocon, Anne Aublin-Gex, Olivier Diaz, Christophe Ramière, Francesco Peri, Patrice André, and Vincent Lotteau

MUCOSAL IMMUNOLOGY
1522 A Fixed Spatial Structure of CD8+ T Cells in Tissue during Chronic HSV-2 Infection
Joshua T. Schiffer, Dave A. Swan, Pavitra Roychoudhury, Jennifer M. Lund, Martin Pelic, Jia Zhu, Anna Wald, and Lawrence Corey

TRANSPLANTATION
1536 2B4 Mediates Inhibition of CD8+ T Cell Responses via Attenuation of Glycolysis and Cell Division
Sonia J. Laurie, Danya Liu, Maylene E. Wagener, Phoebe C. Stark, Cox Terhorst, and Mandy L. Ford

1549 Pre-Existing Maternal Antibodies Cause Rapid Prenatal Rejection of Allotransplants in the Mouse Model of In Utero Hematopoietic Cell Transplantation

TUMOR IMMUNOLOGY
1558 Cigarette Smoke–Induced Emphysema Exhausts Early Cytotoxic CD8+ T Cell Responses against Nascent Lung Cancer Cells
Dimitra Kerdidani, Sophia Magkouta, Panagiotis Chouvardas, Vasiliki Karavana, Konstantinos Glynos, Fani Roumelioti, Spyros Zakynthinos, Els Wauters, Wim Janssens, Diether Lambrechts, George Kollias, and Maria Tsoumakidou

1570 Mechanistic Insights into CpG DNA and IL-15 Synergy in Promoting B Cell Chronic Lymphocytic Leukemia Clonal Expansion
Rashmi Gupta, Xiao J. Yan, Jacqueline Barrientos, Jonathan E. Kolitz, Steven L. Allen, Kanti Rai, Nicholas Chiorazzi, and Patricia K. A. Mongini

NOVEL IMMUNOLOGICAL METHODS
1586 Functional Interrogation of Primary Human T Cells via CRISPR Genetic Editing
Xin Chen, Lina Kozhaya, Cihan Tastan, Lindsey Placek, Mikail Dogan, Meghan Horne, Rebecca Abblett, Ece Karhan, Martin Vaeth, Stefan Feske, and Derya Unutmaz

CORRECTIONS
1599 Correction: Both HIV-Infected and Uninfected Cells Express TRAILshort, Which Confers TRAIL Resistance upon Bystander Cells within the Microenvironment

1600 Correction: Neuron-Specific HuR-Deficient Mice Spontaneously Develop Motor Neuron Disease
Kevin Sun, Xiao Li, Xing Chen, Ying Bai, Gao Zhou, Olga N. Kokiko-Cochran, Bruce Lamb, Thomas A. Hamilton, Ching-Yi Lin, Yu-Shang Lee, and Tomasz Herjan

1601 AUTHOR INDEX