## Table of Contents

**President's Address**
- 2445 The All-Encompassing Importance of Innate Immunity
  - Jenny P.-Y. Ting

- 2450 The Regulation of Immunity
  - Jeremy M. Boss

**Top Reads**
- 2457 Immunotherapy for Lupus Nephritis See article p. 2467
- Anti-Idiotypic Abs Keep Autoantibodies in Check See article p. 2497
- High-Cholesterol Diet Exacerbates Flu See article p. 2523
- ATM Kinase Diversifies the TCRβ Repertoire See article p. 2583

**Pillars of Immunology**
- 2459 CCR5: The Receptor That Unlocks the Door for HIV Entry into Cells
  - Derya Unutmaz

**Cutting Edge**
- 2461 Cutting Edge: T Cell Responses to B.1.1.529 (Omicron) SARS-CoV-2 Variant Induced by COVID-19 Infection and/or mRNA Vaccination Are Largely Preserved
  - Miladen Jergović, Christopher P. Coplen, Jennifer L. Uhrlaub, Shawn C. Beitel, Jeffrey L. Burgess, Karen Lutrick, Katherine D. Ellington, Makiko Watanabe, and Janko Nikolich-Zugich

**Autoimmunity**
- 2467 Restoration of Follicular T Regulatory/Helper Cell Balance by OX40L–JAG1 Cotreatment Suppresses Lupus Nephritis in NZBWF1/j Mice
  - Prabhakaran Kumar, Sivasangari Balakrishnan, Suvarali Surendra Lele, Suman Setty, Shauvery Dhingra, Alan L. Epstein, and Bellur S. Prabhakar

---

CLINICAL AND HUMAN IMMUNOLOGY
2482 Analysis of Complement Gene Expression, Clinical Associations, and Biodistribution of Complement Proteins in the Synovium of Early Rheumatoid Arthritis Patients Reveals Unique Pathophysiologic Features

IMMUNE REGULATION
2497 Naturally Occurring Anti-Idiotypic Antibodies Portray a Largely Private Repertoire in Immune-Mediated Thrombotic Thrombocytopenic Purpura
Silvan R. Heeb, Monica Schaller, and Johanna A. Kremer Hovinga

IMMUNOGENETICS
2508 Genome-Wide Mapping of Plasma IgG N-Glycan Quantitative Trait Loci Identifies a Potentially Causal Association between IgG N-Glycans and Rheumatoid Arthritis
Di Liu, Jing Dong, Jie Zhang, Xizhu Xu, Qinyue Tian, Xiaoni Meng, Lijuan Wu, Deqiang Zheng, Xi Chu, Wei Wang, Qun Meng, and Youxin Wang

INFECTIOUS DISEASE AND HOST RESPONSE
2515 Activation of CD4⁺ T Cell–Derived Cannabinoid Receptor 2 Signaling Exacerbates Sepsis via Inhibiting IL-10
Jincheng Chen, Fuxiang Wang, Su Zhang, Qiao Lin, Hui Xu, Tengfei Zhu, Ling Peng, Fulan Cen, Fang Li, Zhaoyin Wang, Carl G. Feng, Zhihan Yin, Yingxia Liu, and Guoliang Zhang
2523 Dietary Cholesterol Causes Inflammatory Imbalance and Exacerbates Morbidity in Mice Infected with Influenza A Virus
Allison Y. Louie, Joseph Tingling, Evan Dray, Jamal Husain, Daniel B. McKim, Kelly S. Swanson, and Andrew J. Steelman
2540 Translationally Controlled Tumor Protein–Mediated Stabilization of Host Antiapoptotic Protein MCL-1 Is Critical for Establishment of Infection by Intramacrophage Parasite Leishmania donovani
Jayeta Giri, Moumita Basu, Shalini Roy, Tarun Mishra, Kuldip Jana, Ajit Chande, and Anindita Ukle
2549 Cyclooxygenase-Derived Prostaglandin E₂ Drives IL-1–Independent Mycobacterium bovis Bacille Calmette-Guérin–Triggered Skin Dendritic Cell Migration to Draining Lymph Node
Veronika Krmeskà, Juliana Bernardi Aggio, Susanne Nylén, Priscilla Fanini Wowk, and Antonio Gigliotti Rothfuchs
2558 miR-146a Maintains Immune Tolerance of Kupffer Cells and Facilitates Hepatitis B Virus Persistence in Mice
Yongai Liu, Lijuan Qin, Jieru Wang, Xiaolin Xie, Yu Zhang, Changfei Li, Zeliang Guan, Lijuan Qian, Lizhao Chen, Jun Hu, and Songdong Meng

MOLECULAR AND STRUCTURAL IMMUNOLOGY
2583 Poor-Quality VB Recombination Signal Sequences and the DNA Damage Response ATM Kinase Collaborate to Establish TCRβ Gene Repertoire and Allelic Exclusion
Glendon S. Wu, Erica J. Culberson, Brittney M. Allyn, and Craig H. Bassing
CORRECTIONS
2593 Correction: Myeloid-Specific Deficiency of Long-Chain Acyl CoA Synthetase 4 Reduces Inflammation by Remodeling Phospholipids and Reducing Production of Arachidonic Acid-Derived Proinflammatory Lipid Mediators
Andrew R. Reeves, Brian E. Sansbury, Meixia Pan, Xianlin Han, Matthew Spite, and Andrew S. Greenberg

2594 AUTHOR INDEX