TOP READS

643  Anti–IL-17A Prevents Autoimmunity after Immunotherapy See article p. 696
667  Human Neutrophil Heterogeneity See article p. 772
684  Protecting the Gut from Helicobacter pylori See article p. 796
719  Pyroptosis Inhibitor Attenuates Sepsis and EAE See article p. 820

BRIEF REVIEWS

645  Dietary Cholesterol Metabolite Regulation of Tissue Immune Cell Development and Function
  Michela Frascoli, Andrea Reboldi, and Joonsoo Kang

CUTTING EDGE

655  Cutting Edge: Hyperinflammatory Monocytes Expressing CD56 Abound in Severe COVID-19 Patients
  Stefania Campana, Claudia De Pasquale, Giacomo Sidoti Migliore, Gaetana Pezzino, Riccardo Cavaliere,
  Emmanuele Venanzi Rullo, Giuseppe Nunanari, Gaetano Caramori, Antonio David, Irene Bonaccorsi, Teresa Pollicino,
  Paolo Carrega, and Guido Ferlazzo

660  Cutting Edge: Promoting T Cell Factor 1⁺ T Cell Self-Renewal to Improve Programmed Cell Death
  Protein 1 Blockade
  Peter H. Wang, Robert Washburn, Rohan Maniar, Michael Mu, Olivia Ringham, Radomir Kratchmarov,
  Brian S. Henick, and Steven L. Reiner

ALLERGY AND OTHER HYPERSENSITIVITIES

665  Peripheral CD23hi/IgE⁺ Plasmablasts Secrete IgE and Correlate with Allergic Disease Severity
  Elisabeth M. Simonin, Susanna Babasyan, and Bettina Wagner

ANTIGEN RECOGNITION AND RESPONSES

Human Plasmacytoid Dendritic Cells Express C-Type Lectin Receptors and Attach and Respond to Aspergillus fumigatus

An Antibody Neutralization Determinant on Domain III and the First α-Helical Domain in the Stem-Anchor Region of Tembusu Virus Envelope Protein
Badin Yang, Runze Meng, Chengluen Feng, Jingjing Huang, Qiong Li, Xiaoyan Wang, and Dabing Zhang

AUTOIMMUNITY

Inhibition of IL-17A Protects against Thyroid Immune-Related Adverse Events while Preserving Checkpoint Inhibitor Antitumor Efficacy

IMMUNE REGULATION

SyRab1a-Regulated Exosomes Inhibit Bacterial Infection through the Activation of Antilipopolysaccharide Factors in Crustaceans
Qian Sun, Shanneng Lin, Ming Zhang, Yi Gong, Hongyu Ma, Ngoc Tuan Tran, Yueling Zhang, and Shengkang Li

Pazopanib Is a Potential Treatment for Coronavirus-Induced Lung Injuries
Yi Luan, Qianying Yuan, Qijun Wang, Susan Compton, Dianqing Wu, and Wenwen Tang

Palmittate Potentiates Lipopolysaccharide-Induced IL-6 Production via Coordinated Acetylation of H3K9/H3K18, p300, and RNA Polymerase II
Shibab Kochumon, Texpo Jacob, Merin Koshy, Fatema Al-Raheb, Saradar Sindhu, Ehab Al-Ozaib, Fahd Al-Mulla, Evan D. Rosen, and Rasheed Ahmad

Mesothelium-Derived Factors Shape GATA6-Positive Large Cavity Macrophages
Chin-Wen Lai, Prachi Bagadia, Derek A. G. Barisas, Nicholas N. Jarjour, Rachel Wong, Takahiro Ohara, Brian D. Muegge, Qiboe Lu, Shanshan Xiong, Brian T. Edelson, Kenneth M. Murphy, and Thaddeus S. Stappenbeck

IMMUNE SYSTEM DEVELOPMENT

MHC Class I–Dependent Shaping of the NK Cell Ly49 Receptor Repertoire Takes Place Early during Maturation in the Bone Marrow
Stina L. Wickstro¨m, Arnika K. Wagner, Sina Fuchs, Marjet Elemans, Joanna Kritikou, Ramit Mehr, Klas Ka¨rre, Maria H. Johansson, and Hanna Brauner

INFECTIOUS DISEASE AND HOST RESPONSE

Heterotypic Influenza Infections Mitigate Susceptibility to Secondary Bacterial Infection
Ellyse M. Cipolla, Molin Yue, Kara L. Nickolich, Brydie R. Huchesten, Danielle Anton, Wei Chen, and John F. Alcorn

INNATE IMMUNITY AND INFLAMMATION

Single-Cell Analysis Reveals the Range of Transcriptional States of Circulating Human Neutrophils
Gustaf Wigerblad, Qinlin Cao, Stephen Brooks, Faiza Naz, Manasi Gadkari, Kan Jiang, Sarabah Gupta, Liam O’Neil, Stefania Dell’Orso, Mariana J. Kaplan, and Luis M. Franco

Single-Cell Transcriptomic Analysis Reveals Neutrophil as Orchestrator during β-Glucan–Induced Trained Immunity in a Teleost Fish
Di Mu, Jin Yang, Yu Jiang, Zhuang Wang, Weijie Chen, Jianchang Huang, Yuanxing Zhang, Qin Liu, and Dahai Yang
Ornithine Decarboxylase in Gastric Epithelial Cells Promotes the Immunopathogenesis of Helicobacter pylori Infection

Molecular and Structural Immunology

Molecular and Structural Basis of Receptor Binding and Signaling of a Fish Type I IFN with Three Disulfide Bonds
Jingjie Chen, Yanyun Guan, Hongxin Guan, Yinnian Mu, Yang Ding, Jun Zou, Songying Ouyang, and Xinhua Chen

Identification of a Small Molecule with Strong Anti-Inflammatory Activity in Experimental Autoimmune Encephalomyelitis and Sepsis through Blocking Gasdermin D Activation
Runjing Cao, Zihao Li, Chuyu Wu, Senlin Ji, Yahui Li, Xiang Cao, Xiaohong Dong, Meiling Jiang, Tao Pang, Chenhui Wang, Jingwei Li, Yun Xu, and Cun-Jin Zhang

An Engineered Monovalent Anti–TNF-α Antibody with pH-Sensitive Binding Abrogates Immunogenicity in Mice following a Single Intravenous Dose
J. Monty Watkins and Jeffry D. Watkins

Author Index