This information is current as of April 13, 2017.
IN THIS ISSUE

BRIEF REVIEWS

3293 Mechanisms of Immunopathology in Murine Models of Central Nervous System Demyelinating Disease
Anne M. Ercolini and Stephen D. Miller

CUTTING EDGE

3301 Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4⁺CD25⁻ T Regulatory Cells
Adam P. Kohm, Jeffrey S. McMahon, Joseph R. Podjoil, Wendy Smith Begolka, Mathew DeGutes, Deborah J. Kasprwicz, Steven F. Ziegler, and Stephen D. Miller

3306 Cutting Edge: CD28 Controls Dominant Regulatory T Cell Activity during Active Immunization
Clay Lyddane, Beata U. Gajewska, Elmer Santos, Philip D. King, Glaucia C. Furtado, and Michel Sadelain

3311 Cutting Edge: Hormonal Milieu, Not Antigenic Specificity, Determines the Mature Phenotype of Autoreactive B Cells
Jeganathan Venkatesh, Elena Peeva, Xiaoan Xu, and Betty Diamond

3315 Cutting Edge: The Direct Action of Type I IFN on CD4 T Cells Is Critical for Sustaining Clonal Expansion in Response to a Viral but Not a Bacterial Infection
Colin Havenar-Daughton, Ganesh A. Kolumam, and Kaja Murali-Krishna

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

3321 TGF-β Requires CTLA-4 Early after T Cell Activation to Induce FoxP3 and Generate Adaptive CD4⁺CD25⁺ Regulatory Cells
Song Guo Zheng, Jia Hua Wang, William Stohl, Kyoun Hoo Kim, J. Dixon Gray, and David A. Horwitz

3330 Dendritic Cell Synthesis of C3 Is Required for Full T Cell Activation and Development of a Th1 Phenotype
Qi Peng, Ke Li, Hetal Patel, Steven H. Sacks, and Wuding Zhou

3342 In Vitro Suppression of CD8⁺ T Cell Function by Friend Virus-Induced Regulatory T Cells
Shelly J. Robertson, Ronald J. Messer, Aaron B. Carmody, and Kim J. Hasenkrug

On the cover: Fms-like tyrosine kinase 3 ligand (Flt3L) (green) is expressed predominantly within adenovirally transduced astrocytes that express GFAP (magenta) (colocalization of Flt3L and GFAP is seen as white in the confocal image). Flt3L expression in the brain induces the selective recruitment of plasmacytoid dendritic cells expressing IFN-α to the brain parenchyma. Curtin J. F., G. D. King, C. Barcia, C. Liu, F. X. Hubert, C. Guillonneau, R. Josien, I. Anegon, P. R. Lowenstein, and M. G. Castro. 2006. Fms-like tyrosine kinase 3 ligand recruits plasmacytoid dendritic cells to the brain.

Attenuation of IL-7 Receptor Signaling Is Not Required for Allelic Exclusion


Soluble MHC-Peptide Complexes Containing Long Rigid Linkers Abolish CTL-Mediated Cytotoxicity

Georgi S. Angelov, Philippe Guillaume, Marek Cebecauer, Giovanna Boushard, Danijel Dojcinovic, Petra Baumgaertner, and Immanuel F. Luescher

Loss of the Surface Antigen 3G11 Characterizes a Distinct Population of Anergic/Regulatory T Cells in Experimental Autoimmune Encephalomyelitis

Guang-Xian Zhang, Shuo Yu, Divina Calida, Zhao Zhao, Bruno Gran, Malek Kamoun, and Abdolmohamad Rostami

CTL Adaptive Immunotherapy Concurrently Mediates Tumor Regression and Tumor Escape

Kebin Liu, Sheila A. Caldwell, Kristy M. Greeneltch, Dafeng Yang, and Scott I. Abrams

Alloantigen Affinity and CD4 Help Determine Severity of Graft-versus-Host Disease Mediated by CD8 Donor T Cells

Xue-Zhong Yu, Michael H. Albert, and Claudio Analetti

The BZLF1 Homolog of an Epstein-Barr-Related γ-Herpesvirus Is a Frequent Target of the CTL Response in Persistently Infected Rhesus Macaques

Mark H. Fogg, Deirdre Garry, Amany Awad, Fred Wang, and Aminder Kaur

Role of Antigen-Processing Machinery in the In Vitro Resistance of Squamous Cell Carcinoma of the Head and Neck Cells to Recognition by CTL

Andrés López-Albaidero, Jayakar V. Nayak, Takeshi Ogino, Avinash Machandia, William Gooding, Albert B. DeLeo, Soldano Ferrone, and Robert L. Ferris

Induction of Alloreactive CD4 T Cell Tolerance in Molecular Chimeras: A Possible Role for Regulatory T Cells

Daron Forman, Eun-Suk Kang, Chaorui Tian, Jesus Paez-Cortez, and John Iacomini

Combinations of CD45 Isoforms Are Crucial for Immune Function and Disease

Ritu Dawes, Svetla Petrova, Zhe Liu, David Wraith, Peter C. L. Beverley, and Elma Z. Tchilian

Immunization with Murine Breast Cancer Cells Treated with Antisense Oligodeoxynucleotides to Type I Insulin-Like Growth Factor Receptor Induced an Antitumoral Effect Mediated by a CD8 Response Involving Fas/Fas Ligand Cytotoxic Pathway

Roxana Schillaci, Mariana Salatino, Juliana Casaturo, Cecilia J. Proietti, Guillermo H. Giambartolomei, Martin A. Rivas, Romina P. Carnevale, Eduardo H. Charreau, and Patricia V. Elizalde

Differential MHC Class II Presentation of a Pathogenic Autoantigen during Health and Disease

Fei F. Shih, Jennifer Racz, and Paul M. Allen

Regulatory T Cells Can Mediate Their Function through the Stimulation of APCs to Produce Immunosuppressive Nitric Oxide

Cyndi Chen, Wen-hui Lee, Lingwen Zhong, and Chib-Pin Liu

Superior Protective and Therapeutic Effects of IL-12 and IL-18 Gene-Transduced Dendritic Neuroblastoma Fusion Cells on Liver Metastasis of Murine Neuroblastoma

Hisae Iinuma, Kota Okinaga, Ryoji Fukushima, Tsuyoshi Inaba, Kota Iwasaki, Akira Okinaga, Ichiro Takahashi, and Michio Kaneko

GATA-3 Directly Remodels the IL-10 Locus Independently of IL-4 in CD4 T Cells

John Shoemaker, Margarida Saratova, and Anne O’Garra

Differential Role of Programmed Death-1 Ligand and Programmed Death-2 Ligand in Regulating the Susceptibility and Chronic Progression of Experimental Autoimmune Encephalomyelitis

Bing Zhu, Indira Guleria, Areezon Khoroshabi, Tanuja Chitrnis, Jaime Imitola, Miyuki Azuma, Hideo Yagita, Mohamed H. Sayegh, and Samia J. Kboury
Conserved and Heterogeneous Lipid Antigen Specificities of CD1d-Restricted NKT Cell Receptors
Manfred Brigl, Peter van den Elzen, Xiuxu Chen, Jennifer Harrt Meyers, Douglas Wu, Chi-Huey Wong, Faye Reddington, Petr A. Illarianov, Gurtdyal S. Bera, Michael B. Brenner, and Jenny E. Gumperz

Bruton’s Tyrosine Kinase Is Required for TLR2 and TLR4-Induced TNF, but Not IL-6, Production
Nicole J. Horwood, Theresa H. Page, John P. McDaid, Christine D. Palmer, Jamie Campbell, Tara Mahon, Fiona M. Brennan, David Webster, and Brian M. J. Foxwell

Functional Characterization of the CCL25 Promoter in Small Intestinal Epithelial Cells Suggests a Regulatory Role for Caudal-Related Homeobox (Cdx) Transcription Factors
Anna Ericsson, Knut Kotarsky, Marcus Svensson, Mikael Sigvardsson, and William Agace

Modification of MyD88 mRNA Splicing and Inhibition of IL-1β Signaling in Cell Culture and in Mice with a 2′-O-Methoxyethyl-Modified Oligonucleotide
Timothy A. Vickers, Hong Zhang, Mark J. Graham, Kristina M. Lemonidis, Chenguang Zhao, and Nicholas M. Dean

Genetic Dissection of Vasculitis, Myeloperoxidase-Specific Antineutrophil Cytoplasmic Autoantibody Production, and Related Traits in Spontaneous Crescentic Glomerulonephritis-Forming/Kinjoh Mice
Yoshitomo Hamano, Kazuyuki Tsukamoto, Masaaki Abe, Guo Dong Sun, Dangui Zhang, Hiroaki Fujii, Shuji Matsuoka, Masaumi Tanaka, Akiko Ishida-Okawara, Hitoshi Tachikawa, Hiroki Nishimura, Kazuhiro Tokunaka, Sachiko Hirose, and Kazuo Suzuki

Ancestral Organization of the MHC Revealed in the Amphibian Xenopus
Yuko Ohta, Wilfried Goetz, M. Zulfiquer Hosain, Masaru Nonaka, and Martin F. Flajnik

Phospholipase D1 Regulates Phagocyte Adhesion
Shankar S. Iyer, Reitu S. Agrawal, Christopher R. Thompson, Steven Thompson, James A. Burton, and David J. Kusner

The Combined CTA1-DD/ISCOM Adjuvant Vector Promotes Priming of Mucosal and Systemic Immunity to Incorporated Antigens by Specific Targeting of B Cells
Anja Helgeby, Neil C. Robson, Anne M. Donachie, Helen Beackock-Sharp, Karin Lövgren, Karin Schön, Allan Mowat, and Nils Y. Lycke

A Mechanism of Virulence: Virulent Mycobacterium tuberculosis Strain H37Rv, but Not Attenuated H37Ra, Causes Significant Mitochondrial Inner Membrane Disruption in Macrophages Leading to Necrosis
Minjian Chen, Huixian Gan, and Heinz G. Remold

Dectin-1 and TLRs Permit Macrophages to Distinguish between Different Aspergillus fumigatus Cellular States
Geoffrey M. Gersuk, David M. Underhill, Liqun Zhu, and Kieren A. Marr

Structure and Regulatory Profile of the Monkeypox Inhibitor of Complement: Comparison to Homologs in Vaccinia and Variola and Evidence for Dimer Formation
M. Kathryn Liszewski, Marilyn K. Leung, Richard Hauhart, R. Mark L. Buller, Paula Bertram, Xuefeng Wang, Ariella M. Rosengard, Girish J. Kotwal, and John P. Atkinson

Matrix Metalloproteinase-9 Deficiency Impairs Host Defense against Abdominal Sepsis
Rosenmarja Renckens, Joris J. T. H. Roelofs, Sandrine Florquin, Alex F. de Vos, H. Roger Lijnin, Cornelis van’t Veer, and Tom van der Poll

Modulation of Neonatal Microbial Recognition: TLR-Mediated Innate Immune Responses Are Specifically and Differentially Modulated by Human Milk
Emmanuel LeBouder, Julia E. Rey-Nores, Anne-Catherine Raby, Michael Affolter, Karine Vidal, Catherine A. Thornton, and Mario O. Labeţa

Epitope Enhancement of a CD4 HIV Epitope toward the Development of the Next Generation HIV Vaccine
Takahiro Okazaki, C. David Pendleton, Pablo Sarobe, Elaine K. Thomas, Sujatha Iyengar, Clayton Harro, David Schwartz, and Jay A. Berzofsky
Genome-Wide Analysis Reveals a Highly Diverse CD8 T Cell Response to Murine Cytomegalovirus


INFLAMMATION

A Quantitative Trait Loci Analysis to Map Genes Involved in Lipopolysaccharide-Induced Inflammatory Response: Identification of Macrophage Scavenger Receptor 1 as a Candidate Gene

William B. Fulton, Roger H. Reeves, Motohiro Takeya, and Antonio De Maio

Pancreatitis-Associated Protein I Suppresses NF-κB Activation through a JAK/STAT-Mediated Mechanism in Epithelial Cells

Emma Folch-Puy, Susana Granell, Jean C. Dagorn, Juan L. Iovanna, and Daniel Closa

Regulation of IL-1 Family Cytokines IL-1α, IL-1 Receptor Antagonist, and IL-18 by 1,25-Dihydroxyvitamin D₃ in Primary Keratinocytes

Juan Kong, Serge A. Grando, and Yan Chun Li

Mast Cell β-Tryptase Selectively Cleaves Eotaxin and RANTES and Abrogates Their Eosinophil Chemotactic Activities

Linhua Pang, Mei Nie, Lisa Corbett, Amy Sutcliffe, and Alan J. Knox

MyD88 and TNF Receptor-Associated Factor 6 Are Critical Signal Transducers in Helicobacter pylori-Infected Human Epithelial Cells

Yoshihiro Hirata, Tomoya Ohmae, Wataru Shibata, Shin Maeda, Keiji Ogura, Haruhiko Yoshida, Takao Kauabe, and Masao Omata

Microglia Recognize Double-Stranded RNA via TLR3

Terrence Town, David Jeng, Lena Alexopoulou, Jun Tan, and Richard A. Flavell

Preprotachykinin-A Gene Products Are Key Mediators of Lung Injury in Polymicrobial Sepsis

Padmam Puneet, Akhil Hegde, Siaw Wei Ng, Hon Yen Lau, Jia Lu, Shabbir M. Moochhala, and Madhav Bhatia

CLINICAL IMMUNOLOGY

T Cell Responses in Dengue Hemorrhagic Fever: Are Cross-Reactive T Cells Suboptimal?

Juthathip Mongkolapaya, Thaneeya Duangchinda, Wanwisa Dejnirattisai, Sirijit Vasanawathana, Panisadee Avirutnan, Aroonroong Jairungsri, Nuanpan Khennu, Natassa莺ngwonsuk, Pojchong Chotiwarncharuk, Kanokwan Sar-Jang, Michael Koch, Yvonne Jones, Andrew McMichael, Xiaoning Xu, Prida Malasit, and Gavin Screaton

Sensitization of IL-2 Signaling through TLR-7 Enhances B Lymphoma Cell Immunogenicity

Jelena Tomic, Dionne White, Yonghong Shi, Jenny Mena, Caitlin Hammond, Liwei He, Richard L. Miller, and David E. Spaner

Corrections

Author Index

AAI Membership Application

AAI Trainee Membership Application