This information is current as of July 26, 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
LETTERS TO THE EDITOR

5675 Comment on “HIV-Specific IL-21 Producing CD4+ T Cells are Induced in Acute and Chronic Progressive HIV Infection and Are Associated with Relative Viral Control”
Alexandre Iannello, Suzanne Samarani, and Ali Ahmad

5675 Response to Comment on “HIV-Specific IL-21 Producing CD4+ T Cells are Induced in Acute and Chronic Progressive HIV Infection and Are Associated with Relative Viral Control”
Feng Yan Yue and Mario A. Ostrowski

BRIEF REVIEWS

5677 Flagellin as an Adjuvant: Cellular Mechanisms and Potential
Steven B. Mizel and John T. Bates

CUTTING EDGE

5683 Cutting Edge: The Adapters EAT-2A and -2B Are Positive Regulators of CD244- and CD84-Dependent NK Cell Functions in the C57BL/6 Mouse
Ninghai Wang, Silvia Galpe, Jill Westcott, Wilson Castro, Chunyan Ma, Pablo Engel, John D. Schatzle, and Cox Terhorst

5688 Cutting Edge: A Critical Functional Role for IL-23 in Psoriasis
Giulia Tonel, Curdin Conrad, Ute Laggner, Paola Di Meglio, Katarzyna Grys, Terrill K. McClanahan, Wendy M. Blumenschein, Jan-Zhong Qin, Hong Xin, Elizabeth Oldham, Robert Kastelein, Brian J. Nickoloff, and Frank O. Nestle

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

5693 Contribution of Astrocyte-Derived IL-15 to CD8 T Cell Effector Functions in Multiple Sclerosis
Philippe Saikali, Jack P. Antel, Camille L. Pittet, Jia Newcombe, and Nathalie Arbour

On the cover: CD8 T lymphocytes are present in close vicinity to abundant IL-15 in multiple sclerosis lesions. The figure shows a brain tissue section from a patient with multiple sclerosis characterized by a prominent immune cell infiltrate. The section was stained for IL-15 (red) and CD8 (green) and cell nuclei (blue). Saikali, P., J. P. Antel, C. L. Pittet, J. Newcombe, and N. Arbour. 2010. Contribution of astrocyte-derived IL-15 to CD8 T cell effector functions in multiple sclerosis. J. Immunol. 185: 5693–5703.
IL-2 and IL-4 Stimulate MEK1 Expression and Contribute to T Cell Resistance against Suppression by TGF-β and IL-10 in Asthma
Qiaoling Liang, Lei Guo, Shaila Gogate, Zunayet Karim, Arezoo Hanifi, Donald Y. Leung, Magdalena M. Gorska, and Rafeul Alam

BCL6 Is Required for Differentiation of Ig-Like Transcript 3-Fc–Induced CD8+ T Suppressor Cells
Chih-Chao Chang, George Vlad, Vivette D. D’Agati, Zhioua Liu, Qing-yin Zhang, Piotr Witkowski, Ali A. Torkamani, Michael B. Stukes, Eric K. Ho, Raffaello Cortesini, and Nicole Suciu-Foca

CCR10 Is Important for the Development of Skin-Specific γδT Cells by Regulating Their Migration and Location
Yan Jin, Mingcan Xia, Allen Sun, Christina M. Saylor, and Na Xiong

NKG2D Initiates Caspase-Mediated CD3ζ Degradation and Lymphocyte Receptor Impairments Associated with Human Cancer and Autoimmune Disease
Nobuyoshi Hanaoka, Bana Jabri, Zhenpeng Dai, Cesary Ciszewski, Anne M. Stevens, Cassian Yee, Hideki Nakakuma, Thomas Spies, and Veronika Grob

IL-33 Mediates Inflammatory Responses in Human Lung Tissue Cells
Akiko Yagami, Kanami Orihara, Hideaki Morita, Kyoko Futamura, Noriko Hashimoto, Kenji Matsumoto, Hirohisa Saito, and Akio Matsuda

Memory T Cells Are Enriched in Lymph Nodes of Selectin-Ligand–Deficient Mice
John R. Harp, Michael A. Gilchrist, and Thandi M. Onami

Enhanced Dendritic Cell Antigen Uptake via α2 Adrenoceptor-Mediated PI3K Activation Following Brief Exposure to Noradrenaline
Yoshiki Yanagawa, Machiko Matsumoto, and Hiroko Togashi

Lymphatic Endothelial Murine Chloride Channel Calcium-Activated 1 Is a Ligand for Leukocyte LFA-1 and Mac-1
Momoko Furuya, Sara B. Kirschbaum, Amanda Paulovich, Bendicht U. Pauli, Heidi Zhang, Jonathan S. Alexander, Andrew G. Farr, and Alanna Ruddell

Synergistic Effect of IL-6 and IL-4 in Driving Fate Revision of Natural Foxp3+ Regulatory T Cells
Lauren Kastner, David Dwyer, and F. Xiao-Feng Qin

The M Cell-Targeting Ligand Promotes Antigen Delivery and Induces Antigen-Specific Immune Responses in Mucosal Vaccination
Sae-Hae Kim, Ki-Weon Seo, Ju Kim, Kyung-Yeol Lee, and Yong-Suk Jang

Dysregulation of Inflammatory Responses by Chronic Circadian Disruption
Oscar Castanon-Cervantes, Mingwei Wu, J. Christopher Ehlen, Ketema Paul, Karen L. Gamble, Russell L. Johnson, Rachel C. Beising, Michael Menaker, Andrew T. Gewirtz, and Alec J. Davidson

TIM-3: A Novel Regulatory Molecule of Alloimmune Activation
Olaf Boenisch, Francesca D’Addio, Toshihiko Watanabe, Wasim Elyaman, Ciara N. Magee, Melissa Y. Yeung, Robert F. Padera, Scott J. Rodig, Takuya Murayama, Katsumi Tanaka, Xueli Yuan, Takuya Ueno, Anke Jurisch, Bechara Mfarrej, Hisaya Akiba, Hideo Yagita, and Nader Najafian

A Critical Function of Th17 Proinflammatory Cells in the Development of Atherosclerotic Plaque in Mice
Qi Gao, Yang Jiang, Tian Ma, Failing Zhu, Fei Gao, Pin Zhang, Chun Guo, Qun Wang, Xiaoyan Wang, Chunhong Ma, Yun Zhang, Wanjuan Chen, and Lining Zhang

Myeloid-Derived Suppressor Cells Prevent Type 1 Diabetes in Murine Models
Bingjiao Yin, Ge Ma, Chun-Yu Yen, Zuping Zhou, George X. Wang, Celia M. Divino, Sofia Casares, Shu-Hsia Chen, Wen-Chin Yang, and Ping-Ying Pan
PTPβ Activates Lyn and Fyn and Suppresses Hck to Negatively Regulate FcεRI-Dependent Mast Cell Activation and Allergic Responses  
Lionel A. Samayawardhena and Catherine J. Pallen

Differential Requirement of Histone Acetylase and Deacetylase Activities for IRF5-Mediated Proinflammatory Cytokine Expression  
Dl Feng, Niquiche Sangster-Guity, Rivka Stone, Justyna Korzeniewska, Margo E. Mancl, Patricia Fitzgerald-Bocarsly, and Betty J. Barnes

Influenza A Infection Enhances Cross-Priming of CD8+ T Cells to Cell-Associated Antigens in a TLR7- and Type I IFN-Dependent Fashion  
Joe Wei, Jason Waithman, Roleen Lata, Nicole A. Misfud, Jonathan Cebon, Thomas Kay, Mark J. Smyth, Anthony J. Sadler, and Weisan Chen

The Rapid Induction of HLA-E Is Essential for the Survival of Antigen-Activated Naive CD4 T Cells from Attack by NK Cells  
Sumiko Takao, Takayuki Ishikawa, Kouhei Yamashita, and Takashi Uchiyama

MOLECULAR AND STRUCTURAL IMMUNOLOGY

No Requirement of Trans Presentations of IL-15 for Human CD8 T Cell Proliferation  
Naruhisa Ota, Mitsuo Takase, Hidemi Uchiyama, Shaun K. Olsen, and Osami Kanagawa

Comparison of Identical and Functional Igh Alleles Reveals a Nonessential Role for Eμ in Somatic Hypermutation and Class-Switch Recombination  
Fubin Li, Yi Yan, Joyce Pieretti, Danielle A. Feldman, and Laurel A. Eckhardt

PRDM1/Blimp-1 Controls Effector Cytokine Production in Human NK Cells  
Matthew A. Smith, Michelle Maurin, Hyun Il Cho, Brian Becknell, Abaron G. Freund, Jianhua Yu, Sheng Wei, Julie Djen, Esteban Celis, Michael A. Caligiuri, and Kenneth L. Wright

A Ligand for CD5 Is CD5  
Marion H. Brown and Erica Lacey

The CDR-H3 Repertoire from TdT-Deficient Adult Bone Marrow Is a Close, but Not Exact, Homologue of the CDR-H3 Repertoire from Perinatal Liver  

The Peritoneal Cavity B-2 Antibody Repertoire Appears To Reflect Many of the Same Selective Pressures That Shape the B-1a and B-1b Repertoires  

Collectin 11 (CL-11, CL-K1) Is a MASP-1/3–Associated Plasma Collectin with Microbial-Binding Activity  
Soren Hansen, Lana Selman, Nades Palanjan, Karel Ziegler, Jetet Brandt, Anette Kliem, Mathen Jonason, Mikkel-Ole Skjoedt, Ole Nielsen, Kevan Hartshorn, Thomas J. D. Jorgensen, Karsten Skjeld, and Uffe Holmikov

Mast Cell Fibroblastoid Differentiation Mediated by Airway Smooth Muscle in Asthma  
Davinder Kaur, Ruth Saunders, Fay Hollins, Lucy Woodman, Camille Doe, Salman Siddiqui, Peter Bradding, and Christopher Brightling

The Protein Tyrosine Phosphatase SHP-1 Modulates the Suppressive Activity of Regulatory T Cells  
Tesy Iype, Mohan Sankarshanan, Ileana S. Mauldin, David W. Mullins, and Ulrike Lorenz

Domain Swapping Reveals Complement Control Protein Modules Critical for Imparting Cofactor and Decay-Accelerating Activities in Vaccinia Virus Complement Control Protein  
Muzammil Ahmad, Sunil Raut, Kalyani Pyram, Ashish Kamble, Jayati Mullick, and Arvind Sahu
6138 A Nonredundant Role for IL-21 Receptor Signaling in Plasma Cell Differentiation and Protective Type 2 Immunity against Gastrointestinal Helminth Infection
Irab L. King, Katja Mohrs, and Markus Mohrs

6146 A New Mouse Model Reveals a Critical Role for Host Innate Immunity in Resistance to Rift Valley Fever
Tânia Zaverucha do Valle, Agnès Billecocq, Laurent Guilleminot, Rudi Alberts, Céline Gommet, Robert Geffers, Kátia Calabrese, Klaus Schuegbart, Michèle Bouloy, Xavier Montague, and Jean-Jacques Panthier

6157 Evidence That the Erythrocyte Invasion Ligand PfRh2 is a Target of Protective Immunity against Plasmodium falciparum Malaria
Linda Reiling, Jack S. Richards, Freya J. I. Fowkes, Alyssa E. Barry, Tony Triglia, Watcharee Chokejindachai, Pascal Michon, Livingstone Tavul, Peter M. Siba, Alan F. Cowman, Ivo Mueller, and James G. Beezon

6168 Domain V Peptides Inhibit β2-Glycoprotein I-Mediated Mesenteric Ischemia/Reperfusion-Induced Tissue Damage and Inflammation

6179 Polyninosinic-Polycytidylic Acid Treatment of Friend Retrovirus-Infected Mice Improves Functional Properties of Virus-Specific T Cells and Prevents Virus-Induced Disease
Kathrin Gibbert, Kirsten K. Dietze, Gennadiy Zelinskyy, Karl S. Lang, Winfried Barchet, Carsten J. Kirschning, and Ulf Dittmer

6190 Neutropenia Enhances Lung Dendritic Cell Recruitment in Response to Aspergillus via a Cytokine-to-Chemokine Amplification Loop
Stacy J. Park, Marie D. Burdick, William K. Brix, Mark H. Stoler, David S. Askew, Robert M. Strieter, and Borna Mehrad

6198 Innate Immune Activation during Salmonella Infection Initiates Extramedullary Erythropoiesis and Splenomegaly
Amy Jackson, Minelva R. Nanton, Hope O’Donnell, Adovi D. Akue, and Stephen J. McSorley

6205 The Regulation of Th1 Responses by the p38 MAPK
Ziyan Yang, Xia Zhang, Patricia A. Darrah, and David M. Mosser

6214 CXCL1 Regulates Pulmonary Host Defense to Klebsiella Infection via CXCL2, CXCL5, NF-κB, and MAPKs
Shanshan Cai, Sanjay Batra, Sergio A. Lira, Jay K. Kolls, and Samithamby Jeyaseelan

6226 Inducible microRNA-155 Feedback Promotes Type I IFN Signaling in Antiviral Innate Immunity by Targeting Suppressor of Cytokine Signaling 1
Pin Wang, Jin Hou, Li Lin, Chunmei Wang, Xingguang Liu, Dong Li, Feng Ma, Zhugang Wang, and Xuetao Cao

6234 Enhanced Activation of T Lymphocytes by Urease-Deficient Recombinant Bacillus Calmette-Guérin Producing Heat Shock Protein 70-Major Membrane Protein-II Fusion Protein
Tetsu Mukai, Yumi Maeda, Toshiki Tamura, Masanori Matsuoka, Yamiko Tsuchamoto, and Masahiko Makino

INFLAMMATION

6244 Inhibition of Matrix Metalloproteinase-3 and -13 Synthesis Induced by IL-1β in Chondrocytes from Mice Lacking Microsomal Prostaglandin E Synthase-1
Marjolaine Gosset, Audrey Pigenet, Colette Salvat, Francis Berenbaum, and Claire Jacques

6253 Endothelin-1-Induced Macrophage Inflammatory Protein-1β Expression in Monocytic Cells Involves Hypoxia-Inducible Factor-1α and AP-1 and Is Negatively Regulated by microRNA-195
Caryn Gonsalves and Vijay K. Kalra

6265 Substance P Upregulates Cyclooxygenase-2 and Prostaglandin E Metabolite by Activating ERK1/2 and NF-κB in a Mouse Model of Burn-Induced Remote Acute Lung Injury
Selena W. S. Sio, Seab Fang Ang, Jia Lu, Shabbir Moochhala, and Madhav Bhatia
An Inflammasome-Independent Role for Epithelial-Expressed Nlrp3 in Renal Ischemia-Reperfusion Injury

Identification of Noncytotoxic and IL-10–Producing CD8+AT2R+ T Cell Population in Response to Ischemic Heart Injury
Caterina Curato, Svetlana Slavic, Jun Dong, Anna Skorka, Wasiim Altarche-Xifro, Kapka Miteva, Elena Kaschina, Andreas Thiel, Hans Imboden, Jianan Wang, Ulrike Steckelings, Gustav Steinhoff, Thomas Unger, and Jun Li

Slit2 Regulates Attractive Eosinophil and Repulsive Neutrophil Chemotaxis through Differential srGAP1 Expression during Lung Inflammation
Bu-Qing Ye, Zhen H. Geng, Li Ma, and Jian-Guo Geng

Hydroxylase Inhibition Abrogates TNF-α–Induced Intestinal Epithelial Damage by Hypoxia-Inducible Factor-1–Dependent Repression of FADD
Pieter Hinderwyck, Martine De Vos, Peggy Jacques, Liesbeth Ferdinande, Harald Peeters, Kim Olievier, Sara Bogaert, Brigitta Brinkman, Peter Vandenabeele, Dirk Elewaut, and Debby Laukens

Annexin A1: A Central Player in the Anti-Inflammatory and Neuroprotective Role of Microglia
Simon McArthur, Enrico Cristante, Mario Paterno, Helen Christian, Federico Roncaroli, Glenda E. Gillies, and Egle Solito

BLT2 Is Upregulated in Allergen-Stimulated Mast Cells and Mediates the Synthesis of Th2 Cytokines
Kyung-jin Cho, Ji-Min Seo, Min-Goo Lee, and Jae-Hong Kim

CLINICAL IMMUNOLOGY

Active Immunization with Amyloid-β 1–42 Impairs Memory Performance through TLR2/4-Dependent Activation of the Innate Immune System
Patrick Vollmar, Jennifer S. Kullmann, Barbara Thilo, Malte C. Clausen, Veit Rothhammer, Hortenzia Jacobi, Johann Sellner, Stefan Nesler, Thomas Korn, and Bernhard Hemmer

Generation and Differentiation of IL-17–Producing CD4+ T Cells in Malignant Pleural Effusion
Zhi-Jian Ye, Qiong Zhou, Yong-Yao Gu, Shou-Ming Qin, Wan-Li Ma, Jian-Bao Xin, Xiao-Nan Tao, and Huan-Zhong Shi

A Role for Lymphotoxin in Primary Sjögren’s Disease
Long Shen, Lakshmanan Suresh, Jing Wu, Jingxiu Xuan, Hong Li, Chongjie Zhang, Oleh Pankevycz, and Julian L. Ambrus, Jr.

Expanded Numbers of Circulating Myeloid Dendritic Cells in Patent Human Filarial Infection Reflect Lower CCR1 Expression

The Neuroimmune Semaphorin-3A Reduces Inflammation and Progression of Experimental Autoimmune Arthritis
Alfonso Catalano

CORRECTIONS

Correction: The Structure of the TNFRSF13C Promoter Enables Differential Expression of BAFF-R during B Cell Ontogeny and Terminal Differentiation
Stephen A. Mihalick, Paul M. Huddleston, III, Xiaosheng Wu, and Diane F. Jelinek

AUTHOR INDEX