This information is current as of April 28, 2017.
IN THIS ISSUE

BRIEF REVIEWS

769 CD1d Ligands: The Good, the Bad, and the Ugly
Randy R. Brutkiewicz

CUTTING EDGE

777 Cutting Edge: Latecomer CD8 T Cells Are Imprinted with a Unique Differentiation Program
Warren N. D’Souza and Stephen M. Hedrick

782 Cutting Edge: Human β Defensin 3—A Novel Antagonist of the HIV-1 Coreceptor CXCR4
Zhimin Feng, George R. Dubyak, Michael M. Lederman, and Aaron Weinberg

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

787 Disruption of Cyclin D3 Blocks Proliferation of Normal B-1a Cells, but Loss of Cyclin D3 Is Compensated by Cyclin D2 in Cyclin D3-Deficient Mice
Jennifer M. Mataraza, Joseph R. Tomang, Maria R. Gumina, Sean M. Gurdak, Thomas L. Rothstein, and Thomas C. Chiles

796 Clustering of Pre-B Cell Integrins Induces Galectin-1-Dependent Pre-B Cell Receptor Relocalization and Activation
Benjamin Rossi, Marion Espe1, Claudine Schi1, and Laurent Gauthier

804 Thymic Alterations in EphA4-Deficient Mice
Juan J. Muñoz, David Alfaro, Javier García-Cea, Luis M. Alonso-C, Eva Jiménez, and Agustín Zapata

814 Inhibition of Th2-Mediated Allergic Airway Inflammatory Disease by CD137 Costimulation
Yonglian Sun, Sarah E. Blink, Wenthua Liu, Youjun Lee, Boluo Chen, Julian Solway, Joel Weinstock, Lieping Chen, and Yang-Xin Fu

822 Mechanism of IFN-γ-Mediated Inhibition of IL-8 Gene Expression in Astrogloma Cells
Susan Nizell, Travis Laver, Kiran Patel, and Eitty N. Benveniste

On the cover: Cleavage sites on factor VIII (FVIII) for FVIII-hydrolyzing IgG from patients with hemophilia A depicted on the five-domain model for FVIII available on the HAMSteRS website (http://europium.csc.mrc.ac.uk) courtesy of Dr. Geoffrey Kemball-Cook, The A1, A2, A3, C1, and C2 domains of FVIII are shown in orange, green, blue, yellow, and white, respectively. Residues surrounding cleavage sites on FVIII for IgG from three patients are indicated as red spheres. Lacroix-Desmazes, S., B. Woodla, S. Dasgupta, S. Delignat, J. Bayry, J. Reinbolt, J. Hoebeke, E. Saenko, M. D. Kazatchkin, A. Friboulet, O. Christophe, V. Nagaraja, and S. V. Kaveri. 2006. Catalytic IgG from patients with hemophilia A inactivate therapeutic factor VIII. J. Immunol. 177: 1355–1363.
CD8α Coreceptor to Improve TCR Gene Transfer to Treat Melanoma: Down-Regulation of Tumor-Specific Production of IL-4, IL-5, and IL-10
Ralph A. Willemsen, Zsolt Sebestyén, Cees Ronteltap, Cor Berrevoets, Joost Drexhage, and René Debets

TRAIL Deficiency Delays, but Does Not Prevent, Erosion in the Quality of “Helpless” Memory CD8 T Cells
Vladimir P. Badovinac, Kelly A. Nordyke Messingham, Thomas S. Griffith, and John T. Harty

Differential Pattern Recognition Receptor Expression but Stereotyped Responsiveness in Rat Spleen Dendritic Cell Subsets
François-Xavier Hubert, Cécile Voisine, Cédric Louvet, Jean-Marie Heslan, Asmahan Ouabed, Michèle Heslan, and Régis Josien

High-Affinity Interactions between Peptides and Heat Shock Protein 70 Augment CD8\(^+\) T Lymphocyte Immune Responses
Jessica B. Flechtner, Kenya Prince Cohane, Sunil Mehta, Paul Slusarewicz, Alexis Kays Leonard, Brian H. Barber, Daniel L. Levey, and Sofija Andjelic

Activation of Plasmacytoid Dendritic Cells with TLR9 Agonists Initiates Invariant NKT Cell-Mediated Cross-Talk with Myeloid Dendritic Cells

Nonspecific Desensitization, Functional Memory, and the Characteristics of SHIP Phosphorylation following IgE-Mediated Stimulation of Human Basophils
Donald MacGlashan, Jr. and Natalia Vilariño

CTLA-4 Overexpression Inhibits T Cell Responses through a CD28-B7-Dependent Mechanism
John J. Engelhardt, Timothy J. Sullivan, and James P. Allison

Epigenetic Remodeling of the IL-2 and IFN-γ Loci in Memory CD8 T Cells Is Influenced by CD4 T Cells
John K. Northrop, Rajan M. Thomas, Andrew D. Wells, and Hao Shen

Costimulation via CD55 on Human CD4\(^+\) T Cells Mediated by CD97
Melania Capasso, Lindy G. Durrant, Martin Stacey, Siamon Gordon, Judith Ramage, and Ian Spendlove

MD1 Expression Regulates Development of Regulatory T Cells
Reginald M. Gorczynski, Yu Kai, and Kenseki Miyake

Grb2 and Gads Exhibit Different Interactions with CD28 and Play Distinct Roles in CD28-Mediated Costimulation
Ryoune Watanabe, Yohsuke Harada, Kei Takeda, Jun Takahashi, Kazunobu Ohnuki, Shuhei Ogawa, Daisuke Olgai, Nanako Kaibara, Osamu Koizumi, Kazunari Tanabe, Hiroshi Toma, Kazu Sugamura, and Ryo Abe

Prostaglandin E\(_2\) Augments IL-10 Signaling and Function
Hyeonjoo Cheon, Young Hee Rho, Seong Jae Choi, Young Ho Lee, Gwan Gyu Song, Jeongwon Sohn, Nam Hee Won, and Jong Dae Ji

Agonist Ligands Expressed by Thymic Epithelium Enhance Positive Selection of Regulatory T Lymphocytes from Precursors with a Normally Diverse TCR Repertoire
Julie Ribot, Paola Romagnoli, and Joost P. M. van Meerwijk

Molecular and Structural Immunology

Germinal Center Function in the Spleen during Simian HIV Infection in Rhesus Monkeys
David H. Margolin, Erika H. Saunders, Benjamin Bronfin, Nicole de Roa, Michael K. Axthelm, Olga G. Goloubeva, Sara Eapen, Rebecca S. Gelman, and Norman L. Letvin

Paucity of V-D-J Rearrangements and V\(_{H}\) Replacement Events in Lupus Prone and Nonautoimmune TdT\(^{-/-}\) and TdT\(^{-/+}\) Mice
Lisa C. Watson, Chantelle S. Moffatt-Bluche, R. Zachary McDonald, Elizabeth Kompfner, Djemel Ait-Azzouzene, David Nemazee, Argyrios N. Theofilopoulos, Dwight H. Kono, and Ann J. Ferney
HOST DEFENSE

1189 Endogenous Tissue-Type Plasminogen Activator Is Protective during Escherichia coli-Induced Abdominal Sepsis in Mice
Raemarijn Rencken, Juris J. T. H. Roelof, Sandrine Florquin, Alex F. de Vos, Jennie M. Pater, H. Roger Lijnen, Peter Carmeliet, Cornelis van ‘t Veer, and Tom van der Poll

1197 GM1 Binding-Deficient Exotoxin Is a Potent Noninflammatory Broad Spectrum Intradermal Immunoadjuvant
J. Paul Zaatweij, Diane E. Eppevon, Jackie D. Porter, Chen X. Zhang, Olga Y. Frolova, Anita P. Constantinides, Steven R. Fuhrmann, Mustafa El-Amine, Jing-Hui Tian, Larry R. Ellingsworth, and Gregory M. Glenn

1208 Resistance of C57BL/6 Mice to Amoebiasis Is Mediated by Nonhemopoietic Cells but Requires Hemopoietic IL-10 Production
Shinjiro Hamano, Amon Asgharpour, Suzanne E. Stroup, Thomas A. Wynn, Edward H. Leiter, and Eric Houp

1214 Epithelial Cell IkB-Kinase β Has an Important Protective Role in Clostridium difficile Toxin A-Induced Mucosal Injury
Sungwon Chae, Lars Eckmann, Yukihiro Miyamoto, Charalabos Potoulakis, Michael Karin, and Martin F. Kagnoff

1221 Streptococcal M Protein: A Multipotent and Powerful Inducer of Inflammation

1229 NK Cell Responses to Plasmodium Infection and Control of Intrahepatic Parasite Development
Jacques Roland, Valérie Soulard, Christèle Sellier, Anne-Marie Drapier, James P. Di Santo, Pierre-André Cazenave, and Sylviane Pied

1240 Wolbachia Endosymbiotic Bacteria of Brugia malayi Mediate Macrophage Tolerance to TLR- and CD40-Specific Stimuli in a MyD88/TLR2-Dependent Manner
Joseph D. Turner, R. Stuart Langley, Kelly L. Johnston, Gill Egerton, Samuel Wanji, and Mark J. Taylor

1250 Lymph Node Resident Rather Than Skin-Derived Dendritic Cells Initiate Specific T Cell Responses after Leishmania major Infection
Giandomenico Iezzi, Anja Fröhlich, Bettina Ernst, Franziska Ampenberger, Sem Saeland, Nicholas Glaichenhau, and Manfred Kopf
INFLAMMATION

1257 Chlamydia Heat Shock Protein 60 Induces Trophoblast Apoptosis through TLR4
Ozlem Equils, Daining Lu, Mary Gatter, Steve S. Witkin, Cristina Bertolotto, Moshe Arditii, James A. McGregor,
Charles F. Simmons, and Calvin J. Hobel

1264 Signaling via Platelet-Activating Factor Receptors Accounts for the Impairment of Neutrophil Migration
in Polymicrobial Sepsis
Susana E. Moreno, José C. Alves-Filho, Fabricio Rios-Santos, João S. Silva, Sérgio H. Ferreira, Fernando Q. Cunha,
and Mauro M. Teixeira

1272 Hyaluronan Fragments Act as an Endogenous Danger Signal by Engaging TLR2
Kara A. Scheibner, Michael A. Lutz, Sada Boodoo, Matthew J. Fenton, Jonathan D. Powell, and Maureen R. Horton

1282 Dynamic and Transient Remodeling of the Macrophage IL-10 Promoter during Transcription
Xia Zhang, Justin P. Edwards, and David M. Mosser

1289 Human Monocytes Recognize Porcine Endothelium via the Interaction of Galectin 3 and α-GAL
Rongyu Jin, Allen Greenwald, Mark D. Peterson, and Thomas K. Waddell

1296 Zinc Is Required for FcεRI-Mediated Mast Cell Activation
Koki Kabu, Satoru Yamasaki, Daiyuke Kaminura, Yukitaka Ito, Aiko Hasegawa, Emi Sato, Hidemitsu Kitamura,
Keigo Nishida, and Toshiro Hirano

1306 Divergent Signaling Pathways in Phagocytic Cells during Sepsis
Ren-Feng Guo, Niels C. Riedemann, Lei Sun, Hongwei Gao, Kevin X. Shi, Jayne S. Reuben, Vidya J. Sarma,
Firas S. Zetoune, and Peter A. Ward

1314 TNF-α-Independent IL-8 Expression: Alterations in Bacterial Challenge Dose Cause Differential Human
Monocytic Cytokine Response
Julia B. Patrone, Samuel E. Bish, and Daniel C. Stein

1323 Interleukin-13 Enhances Cyclooxygenase-2 Expression in Activated Rat Brain Microglia: Implications for
Death of Activated Microglia

1330 Activation of Ca^{2+}-Dependent Signaling by TLR2
Jarin Chun and Alice Prince

CLINICAL IMMUNOLOGY

1338 A Novel Approach to Characterize Clonality and Differentiation of Human Melanoma-Specific T Cell
Responses: Spontaneous Priming and Efficient Boosting by Vaccination
Daniel E. Speiser, Petra Baumgaertner, Catherine Barbey, Verena Rubio-Gody, Alexandre Moulin, Patricia Corthecy,
Estelle Devevre, Pierre-Yves Dietrich, Donata Rimoldi, Daniela Liénard, Jean-Charles Cerottini, Pedro Romero,
and Nathalie Rufer

1349 Role of TLR9 in Anti-Nucleosome and Anti-DNA Antibody Production in lpr Mutation-Induced
Murine Lupus
Aurélia Lartigue, Philippe Courville, Isabelle Aujut, Arnaud François, Christophe Arnould, François Tron,
Daniele Gilbert, and Philippe Musette

1355 Catalytic IgG from Patients with Hemophilia A Inactivate Therapeutic Factor VIII
Sébastien Lacroux-Desmazes, Bharath Wootla, Suryasarathi Dasgupta, Sandrine Delignat, Jagadeesh Bayry, Joseph Reinbold,
Johan Hoebeke, Evgueni Saenko, Michel D. Kazatchkine, Alain Fréboulet, Olivier Christophe, Valakunja Nagaraja,
and Srini V. Kaveri

1364 Author Index
1367 AAI Membership Application
1368 AAI Trainee Membership Application