This information is current as of January 21, 2018.
IN THIS ISSUE

LETTERS TO THE EDITOR

2035 Comment on “CCR7 Is Critically Important for Migration of Dendritic Cells in Intestinal Lamina Propria to Mesenteric Lymph Nodes”
David A. Hume

2035 Response to Comment on “CCR7 Is Critically Important for Migration of Dendritic Cells in Intestinal Lamina Propria to Mesenteric Lymph Nodes”
Myoung Ho Jang and Masayuki Miyasaka

2036 Comment on “Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4⁺CD25⁺ T Regulatory Cells”
Leigh A. Stephens and Stephen M. Anderton

2036 Comment on “Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4⁺CD25⁺ T Regulatory Cells”
Santiago Zelenay and Jocelyne Demengeot

2037 Response to Comment on “Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4⁺CD25⁺ T Regulatory Cells”
Adam P. Kohm and Stephen D. Miller

2038 Comment on “Duration and Intensity of NF-κB Activity Determine the Severity of Endotoxin-Induced Acute Lung Injury”
Michael Eisenhut

BRIEF REVIEWS

2039 CCR5 in T Cell-Mediated Liver Diseases: What’s Going On?
Maureen N. Ajuebor, Jillian A. Carey, and Mark G. Swain

CUTTING EDGE

2047 Cutting Edge: Dexamethasone Negatively Regulates Syk in Mast Cells by Up-Regulating Src-Like Adaptor Protein
Takaaki Hiragun, Ze Peng, and Michael A. Beaven

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2051</td>
<td>Cutting Edge: Inhibition of TLR and FcR Responses in Macrophages by Triggering Receptor Expressed on Myeloid Cells (TREM)-2 and DAP12</td>
<td>Jessica A. Hamerman, Jessica R. Jarjoura, Mary Beth Humphrey, Mary C. Nakamura, William E. Seaman, and Lewis L. Lanier</td>
</tr>
<tr>
<td>2056</td>
<td>Cutting Edge: Epstein-Barr Virus Transactivates the HERV-K18 Superantigen by Docking to the Human Complement Receptor 2 (CD21) on Primary B Cells</td>
<td>Francis C. Hisao, Xiao Lin, Albert Tai, Gang Chen, and Brigitte T. Huber</td>
</tr>
<tr>
<td>2061</td>
<td>1-Methyl-Tryptophan Can Interfere with TLR Signaling in Dendritic Cells Independently of IDO Activity</td>
<td>Sophie Agaugué, Laure Perrin-Cocon, Frédéric Coutant, Patrice André, and Vincent Lotteau</td>
</tr>
<tr>
<td>2072</td>
<td>Characterization of (4-Hydroxy-3-Nitrophenyl)Acetyl (NP)-Specific Germinal Center B Cells and Antigen-Binding B220⁺ Cells after Primary NP Challenge in Mice</td>
<td>Kristy L. Wolniak, Randolph J. Noelle, and Thomas J. Waldschmidt</td>
</tr>
<tr>
<td>2080</td>
<td>Mesenchymal Stem Cells Inhibit Generation and Function of Both CD34⁺-Derived and Monocyte-Derived Dendritic Cells</td>
<td>Alma J. Nauta, Alwine B. Kruisselbrink, Ellie Lurvink, Roel Willemze, and Willem E. Fibbe</td>
</tr>
<tr>
<td>2087</td>
<td>TLR7 Ligands Induce Higher IFN-α Production in Females</td>
<td>Beate Berghofer, Türe Frommer, Gabriela Haley, Ludger Fink, Gregor Bein, and Holger Hackstein</td>
</tr>
<tr>
<td>2097</td>
<td>Endogenous Myelin Basic Protein Is Presented in the Periphery by Both Dendritic Cells and Resting B Cells with Different Functional Consequences</td>
<td>Audrey Seamon, Antoine Perchellet, and Joan Goverman</td>
</tr>
<tr>
<td>2107</td>
<td>RUNX3 Negatively Regulates CD36 Expression in Myeloid Cell Lines</td>
<td>Amaya Puig-Kröger, Angeles Domínguez-Soto, Laura Martínez-Muñoz, Diego Serrano-Gómez, María Lopez-Bravo, Elena Sierra-Filardi, Elena Fernández-Ruiz, Natividad Ruiz-Velasco, Carlos Ardañán, Yoram Groner, Narendra Tandon, Angel L. Corbi, and Miguel A. Vega</td>
</tr>
<tr>
<td>2115</td>
<td>Modulation of Monocyte Function by Activated Protein C, a Natural Anticoagulant</td>
<td>Daniel A. Stephenson, Lisa J. Toltl, Suzanne Beaudin, and Patricia C. Liaw</td>
</tr>
<tr>
<td>2123</td>
<td>The Role of Structurally Conserved Class I MHC in Tumor Rejection: Contribution of the Q8 Locus</td>
<td>Eugene Y. Chiang and Iwona Strynowski</td>
</tr>
<tr>
<td>2131</td>
<td>Type 2 Cytotoxic T Lymphocytes Modulate the Activity of Dendritic Cells Toward Type 2 Immune Responses</td>
<td>Giandomenica Iezzi, Andrea Bonì, Elena Degl’Innocenti, Matteo Grioni, Maria T. S. Bertilaccio, and Matteo Bellone</td>
</tr>
<tr>
<td>2138</td>
<td>Screening and Identification of Severe Acute Respiratory Syndrome-Associated Coronavirus-Specific CTL Epitopes</td>
<td>Minghai Zhou, Dongping Xu, Xiaojuan Li, Hongtao Li, Ming Shan, Jiaren Tang, Min Wang, Fu-Sheng Wang, Xiaodong Zhu, Hua Tao, Wei He, Po Tien, and George F. Gao</td>
</tr>
<tr>
<td>2146</td>
<td>Porcine UL16-Binding Protein 1 Expressed on the Surface of Endothelial Cells Triggers Human NK Cytotoxicity through NKG2D</td>
<td>Benjamin G. Lilienfeld, Carmen García-Borges, Mark D. Crew, and Jörg D. Seebach</td>
</tr>
<tr>
<td>2153</td>
<td>Structurally Distinct Ligand-Binding or Ligand-Independent Notch1 Mutants Are Leukemogenic but Affect Thymocyte Development, Apoptosis, and Metastasis Differently</td>
<td>Elena Priceputu, Isabelle Bonallage, Yaping Zhang, Xiujie Li, Pavel Chrobak, Zaher S. Hanna, Johanne Poudrier, Denis G. Kay, and Paul Jolicoeur</td>
</tr>
<tr>
<td>2167</td>
<td>Regulatory and Effector T Cell Activation Levels Are Prime Determinants of In Vivo Immune Regulation</td>
<td>Fabienne Billiard, Elena Litvinova, David Saadoun, Fatihia Djelit, David Klatzmann, José L. Cohen, Gilles Marodon, and Benoît L. Salomon</td>
</tr>
</tbody>
</table>
Induction of Allospecific Tolerance by Immature Dendritic Cells Genetically Modified to Express Soluble TNF Receptor
Quanxing Wang, Yushan Liu, Jianli Wang, Guoshan Ding, Weiping Zhang, Guoyou Chen, Minghui Zhang, Shuwen Zheng, and Xuetao Cao

Defective Activation of Protein Kinase C and Ras-ERK Pathways Limits IL-2 Production and Proliferation by CD4\(^+\)CD25\(^+\) Regulatory T Cells
Somia P. Hickman, Jaeok Yang, Rajan M. Thomas, Andrew D. Wells, and Laurence A. Turka

Spi-C Has Opposing Effects to PU.1 on Gene Expression in Progenitor B Cells
Brock L. Schweitzer, Kelly J. Huang, Meghna B. Kamath, Alexander V. Emelyanov, Barbara K. Birshtein, and Rodney P. DeKoter

Intradermal Delivery of Adenoviral Type-35 Vectors Leads to High Efficiency Transduction of Mature, CD8\(^+\) T Cell-Stimulating Skin-Emigrated Dendritic Cells
Tanja D. de Gruijl, Olga J. A. E. Ophorst, Jaap Goudsmit, Sandra Verhaagh, Sindiad M. Lougheed, Katarina Radosevic, Menzo J. E. Havenga, and Rik J. Scheper

Constitutive Activation of STAT5 Supersedes the Requirement for Cytokine and TCR Engagement of CD4\(^+\) T Cells in Steady-State Homeostasis
Devon K. Taylor, Patrick T. Walsh, David F. LaRosa, Jidong Zhang, Matthew A. Burchill, Michael A. Farrar, and Laurence A. Turka

Salmonella typhimurium Infection in Nonobese Diabetic Mice Generates Immunomodulatory Dendritic Cells Able to Prevent Type 1 Diabetes
Tim Raine, Paola Zacccone, Pietro Mastroeni, and Anne Cooke

Impaired Intracellular Calcium Mobilization and NFATc1 Availability in Tolerant Anti-Insulin B Cells
Carlos A. Acevedo-Suárez, Dawn M. Kilkenney, Martha B. Reich, and James W. Thomas

Pre-B Cell Receptor Assesses the Quality of IgH Chains and Tunes the Pre-B Cell Repertoire by Delivering Differential Signals
Yohei Kawano, Soichiro Yoshikawa, Yoshiyuki Minegishi, and Hajime Karasuyama

FcR\(^\gamma\) Presence in TCR Complex of Double-Negative T Cells Is Critical for Their Regulatory Function
Christopher W. Thomson, Wendy A. Tefi, Wenbao Chen, Boris P.-L. Lee, Joaquin Madrenas, and Li Zhang

Sialoadhesin Promotes the Inflammatory Response in Experimental Autoimmune Uveoretinitis
Hui-Rong Jiang, Lenias Huenda, Kimmo Makinen, Cornelia Oetke, Paul R. Crocker, and John V. Forrester

Dendritic Cell-Lysosomal-Associated Membrane Protein (LAMP) and LAMP-1-HIV-1 Gag Chimeras Have Distinct Cellular Trafficking Pathways and Prime T and B Cell Responses to a Diverse Repertoire of Epitopes
Luciana B. Arruda, Del Sim, Priya R. Chikhlikar, Milton Maciel, Jr., Kenji Akasaki, J. Thomas August, and Ernesto T. A. Marques

Preferential Induction of CD4\(^+\) T Cell Responses through In Vivo Targeting of Antigen to Dendritic Cell-Associated C-Type Lectin-1
Robert W. Carter, Clare Thompson, Delyth M. Reid, Simon Y. C. Wong, and David F. Tough

The Th2 Lymphoproliferation Developing in Lat\(^{V136F}\) Mutant Mice Triggers Polyclonal B Cell Activation and Systemic Autoimmunity
Céline Genton, Ying Wang, Shozo Izui, Bernard Malissen, Georges Desol, Gilbert J. Fournié, Marie Malissen, and Hans Acha-Orbea

Constitutively Active β-Catenin Promotes Expansion of Multipotent Hematopoietic Progenitors in Culture
Yoshihiro Baba, Takafumi Yokota, Hergen Spits, Karla P. Garrett, Shin-Ichi Hayashi, and Paul W. Kincade

TRAIL-Mediated Apoptosis in HIV-1-Infected Macrophages Is Dependent on the Inhibition of Akt-1 Phosphorylation
Yunlong Huang, Nathan Erdmann, Hui Peng, Shelley Herek, John S. Davis, Xu Luo, Tsuneya Ikezu, and Jialin Zheng
2314 Opposite Fate of Endocytosed CCR7 and Its Ligands: Recycling versus Degradation
Carolina Otero, Marcus Groettrup, and Daniel F. Legler

2324 Antigens Chemically Coupled to the Surface of Liposomes Are Cross-Presented to CD8+ T Cells and Induce Potent Antitumor Immunity
Maiko Taneichi, Hideaki Ishida, Kiichi Kajino, Kazumasa Ogaawara, Yuriko Tanaka, Michiyuki Kasai, Masahito Mori, Mitsuhito Nishida, Hiroyuki Yamamura, Junichiro Mizuguchi, and Tetsuya Uchida

2331 TGF-β-Mediated Suppression by CD4+CD25+ T Cells Is Facilitated by CTLA-4 Signaling
Takatoke Oida, LiLi Xu, Howard L. Weiner, Atsushi Kitani, and Warren Strober

2340 Homeostatic Lymphoid Chemokines Synergize with Adhesion Ligands to Trigger T and B Lymphocyte Chemokinesis
Agneszka N. Stachowiaik, Yana Wang, Yen-Chen Huang, and Darrell J. Irvine

2349 Vav1 Controls DAP10-Mediated Natural Cytotoxicity by Regulating Actin and Microtubule Dynamics
Daniel B. Graham, Marina Celli, Emanuele Giurisato, Keiko Fujikawa, Ana V. Miletic, Tracie Kloeppel, Karry Brim, Toshiyuki Takai, Andrey S. Shaw, Marco Colonna, and Wojciech Swat

2356 ICOS-Induced B7h Shedding on B Cells Is Inhibited by TLR7/8 and TLR9
Eric C. Logue, Sonia Bakkour, Michael M. Murphy, Hector Nolla, and William C. Sha

2365 B7RP-1-ICOS Interactions Are Required for Optimal Infection-Induced Expansion of CD4+ Th1 and Th2 Responses
Emma H. Wilson, Colby Zaph, Markus Mohrs, Andy Welcher, Jerry Siu, David Artis, and Christopher A. Hunter

2373 Distinct Responses of Lung and Spleen Dendritic Cells to the TLR9 Agonist CpG Oligodeoxynucleotide
Li Chen, Meenakshi Arora, Manohar Yarlagadda, Timothy B. Oriss, Nandini Krishnamoorthy, Anuradha Ray, and Prabir Ray

2384 Activation of NFAT Signal In Vivo Leads to Osteopenia Associated with Increased Osteoclastogenesis and Bone-Resorbing Activity
Fumiyo Ikeda, Riko Nishimura, Takuma Matsubara, Kenji Hata, Sakamuri V. Reddy, and Toshiyuki Yoneda

2391 Cyclooxygenase-2 Inhibitor Enhances the Efficacy of a Breast Cancer Vaccine: Role of IDO
Gargi D. Basu, Teresa L. Tinder, Judy M. Bradley, Tony Tu, Christine L. Hattrup, Barbara A. Pockaj, and Pinku Mukherjee

2403 A Pathogenic Role for CD8+ T Cells in a Spontaneous Model of Demyelinating Disease
Marcel Brisebois, Simone P. Zehntner, José Estrada, Trevor Owens, and Sylvie Fournier

2412 B Cells Expressing a Natural Polyreactive Autoantibody Have a Distinct Phenotype and Are Overrepresented in Immunoglobulin Heavy Chain Transgenic Mice
Qi Tian, Michael Beardall, Yang Xu, Ju Li, David C. Parker, Nina Casanova, Anthony C. Bakke, and Ching Chen

2423 Structure-Activity Profiles of Antibody-Derived TNF Fusion Proteins
Stefan Bauer, Nicole Adrian, Eliane Fischer, Sascha Kleber, Frank Stunner, Andreas Wadle, Natalie Fadde, Andy Zoellner, Rita Bernhardt, Alexander Knuth, Lloyd J. Old, and Christoph Renner

MOLecULAR AND STRucTUREL IMMUNOLOGY

2431 Activation of Murine CD4+ and CD8+ T Lymphocytes Leads to Dramatic Remodeling of N-Linked Glycans
Elena M. Comelli, Mark Sutton-Smith, Qi Yan, Margarida Amado, Maria Panico, Tim Gilmartin, Thomas Whisenant, Caroline M. Lanigan, Steven R. Head, David Goldberg, Howard R. Morris, Anne Dell, and James C. Paulson

2441 Identification of PP1α as a Caspase-9 Regulator in IL-2 Deprivation-Induced Apoptosis
Frédéric Dessauge, Xavier Gayla, Juan Pablo Albar, Arne Fleischer, Ata Ghadiri, Marianne Dubamel, and Angelita Rebollo

2452 Diverse Immunoglobulin Light Chain Organizations in Fish Retain Potential to Revise B Cell Receptor Specificities
Ellen Hsu and Michael F. Criscitiello
Conserved Functions of Ikaros in Vertebrate Lymphocyte Development: Genetic Evidence for Distinct Larval and Adult Phases of T Cell Development and Two Lineages of B Cells in Zebrafish

Michael Schorpp, Mike Bialecki, Dagmar Diekhoff, Brigitte Walderich, Jörg Odenthal, Hans-Martin Maischein, Agustin G. Zapata, Tübingen 2000 Screen Consortium, Freiburg Screening Group, and Thomas Boehm

TCR-α CDR3 Loop Audition Regulates Positive Selection

Cristina Ferreira, Anna Furnanski, Maggie Millrain, Istvan Bartok, Philippe Guillaume, Rosemary Lees, Elizabeth Simpson, H. Robson MacDonald, and Julian Dyson

Autoantibodies from Synovial Lesions in Chronic, Antibiotic Treatment-Resistant Lyme Arthritis Bind Cytokeratin-10

Srimoyee Ghosh, Robert Seward, Catherine E. Costello, B. David Sollars, and Brigitte T. Huber

E2A Promotes the Survival of Precursor and Mature B Lymphocytes

Adam S. Lazorchak, Jason Wojciechowski, Meifang Dai, and Yuan Zhuang

Identification and Characterization of a FcR Homolog in an Ectothermic Vertebrate, the Channel Catfish (Ictalurus punctatus)

James L. Stafford, Melanie Wilson, Deepak Nayak, Sylvie M. Quiniou, L. W. Clem, Norman W. Miller, and Eva Bengtén

CD8+ T Lymphocyte-Mediated Loss of Marginal Metallophilic Macrophages following Infection with Plasmodium chabaudi chabaudi AS

Lynette Beattie, Christian R. Engworda, Michelle Wykes, and Michael F. Good

Nuclear Accumulation of cRel following C-Terminal Phosphorylation by TBK1/IKKε

Jennifer Harris, Stéphanie Olière, Sonia Sharma, Qiang Sun, Rongtuan Lin, John Hiscott, and Nathalie Grandvaux

Local CD11c+ MHC Class II− Precursors Generate Lung Dendritic Cells during Respiratory Viral Infection, but Are Depleted in the Process

Hongwei Wang, Nina Peters, Vasile Laz-Stanca, Niga Nawroly, Sebastian L. Johnston, and Jürgen Schwarze

CD46 (Membrane Cofactor Protein) Acts as a Human Epithelial Cell Receptor for Internalization of Opsonized Uropathogenic Escherichia coli

Ke Li, Maria Jose Feito, Steven H. Sacks, and Neil S. Sheerin

Subunit Recombinant Vaccine Protects against Monkeypox

Jean-Michel Heraud, Yvette Edghill-Smith, Victor Ayala, Irene Kalisz, Janie Parrino, Vaniambadi S. Kalyanaraman, Jody Manischewitz, Lisa R. King, Anna Hryniewicz, Christopher J. Trindade, Meredith Hasset, Wen-Po Tsai, David Venzon, Aysegul Nalca, Monica Vaccari, Peter Silvera, Mike Bray, Barney S. Graham, Hana Goldberg, Jay W. Hooper, and Genoveffa Franchini

IL-10 Is Required for Optimal CD8 T Cell Memory following Listeria monocytogenes Infection

Kathryn E. Foulds, Masashi J. Rotte, and Robert A. Seder

NK Cells Use NKG2D to Recognize a Mouse Renal Cancer (Renca), yet Require Intercellular Adhesion Molecule-1 Expression on the Tumor Cells for Optimal Perforin-Dependent Effector Function


Toxoplasma gondii Genotype Determines MyD88-Dependent Signaling in Infected Macrophages

Leesun Kim, Barbara A. Butcher, Chiang W. Lee, Satoshi Uematsu, Shizuo Akira, and Eric Y. Denkers

Heme Oxygenase-1 Mediates the Anti-Inflammatory Effects of Acute Alcohol on IL-10 Induction Involving p38 MAPK Activation in Monocytes

Yvonne Drechsler, Angela Dolganovic, Ocana Norkina, Laslo Romics, Weibo Li, Karen Kody, Fritz H. Bach, Pranoti Mandekar, and Gyongyi Szabo

Inflammation-Responsive Transcription Factor SAF-1 Activity Is Linked to the Development of Amyloid A Amyloidosis

Alpana Ray, Arvind Shukla, Deepak Kumar, Merrill D. Benson, and Bimal K. Ray
TWEAK Is a Novel Arthritogenic Mediator

Prostaglandin D2 Plays an Essential Role in Chronic Allergic Inflammation of the Skin via CRTH2 Receptor
Takahiro Satoh, Rie Moroi, Kosuke Aritake, Yoshihiro Urade, Yasunari Kanai, Koji Sumi, Hiroo Yokozeki, Hironuki Hira, Kenji Nagata, Toshifumi Hara, Masanori Utsuyama, Katsuko Hirokawa, Kazuo Sugamura, Kiyoji Nishioka, and Masataka Nakamura

Lipoic Acid Affects Cellular Migration into the Central Nervous System and Stabilizes Blood-Brain Barrier Integrity

Human Mast Cell-Derived Gelatinase B (Matrix Metalloproteinase-9) Is Regulated by Inflammatory Cytokines: Role in Cell Migration
Nick Di Girolamo, Ikuko Indoh, Nicole Jackson, Denis Wakefield, H. Patrick McNeil, Weixing Yan, Carolyn Gezy, Jonathan P. Arm, and Nicodemus Tedla

CCL2 Regulates Angiogenesis via Activation of Ets-1 Transcription Factor
Svetlana M. Stamatovic, Richard F. Kep, Marija Mustarica-Stojkovic, and Anuska V. Andjelkovic

Papillomavirus-Like Particles Are an Effective Platform for Amyloid-β Immunization in Rabbits and Transgenic Mice
Eduardo Zamora, Alessandra Hanisuyrta, Saeed Shafii-Keramati, David Borchert, Gay Rudow, Katherine Conant, Christopher Cox, Juan C. Troncoso, and Reishard Kerbauer

Paucity of Clinical Disease despite Serological Autoimmunity and Kidney Pathology in Lupus-Prone New Zealand Mice Deficient in BAFF
Chatin O. Jacob, Luminita Pricop, Chaim Putterman, Michael N. Koss, Yi Liu, Maria Kollaros, Sarah A. Bixler, Christine M. Ambrose, Martin L. Scott, and William Stohl

Calcineurin Is Expressed and Plays a Critical Role in Inflammatory Arthritis
Seung-Ah Yoo, Bo-Hyoung Park, Gyeong-Sin Park, Hae-Soek Koh, Mi-Sook Lee, Sung Ho Ryu, Keiji Miyazawa, Sung-Hwan Park, Chul-Soo Cho, and Wan-Uk Kim

Monocyte-Derived Human Macrophages Mediate Anergy in Allogeneic T Cells and Induce Regulatory T Cells
Sabine Hoves, Stefan W. Krause, Christian Schütz, Dagnar Halbritter, Jürgen Schöllmerich, Hans Herfarth, and Martin Fleck

Increased Levels of Soluble CD40L in African Tick Bite Fever: Possible Involvement of TLRs in the Pathogenic Interaction between Rickettsia africae, Endothelial Cells, and Platelets
Jan K. Damås, Mogens Jensenius, Thor Ueland, Kari Otterdal, Arne Yndestad, Stig S. Frøland, Jean-Marc Rolain, Bjørn Myresang, Didier Raoult, and Pål Aukrust

The Antineoplastic Agent Bryostatin-1 Differentially Regulates IFN-γ Receptor Subunits in Monocytic Cells: Transcriptional and Posttranscriptional Control of IFN-γR2
Carmen S. Garcia, Rafael E. Cariel, James M. Muwibho, Sidney Pesti, Rusfen Li, and Igor Espinosa-Delgado

Spontaneous CD4+ T Cell Responses against TRAG-3 in Patients with Melanoma and Breast Cancers

Corrections

Author Index

AAI Membership Application

AAI Trainee Membership Application