This information is current as of April 14, 2017.
IN THIS ISSUE

PILLARS OF IMMUNOLOGY

3455 IN THIS ISSUE

3457 PILLARS OF IMMUNOLOGY

3457 CTLA-4: Not All Costimulation Is Stimulatory
Hugh Auchincloss and Laurence A. Turka

3459 Pillars Article: CD28 and CTLA-4 Have Opposing Effects on the Response of T Cells to Stimulation.
Matthew F. Krummel and James P. Allison

Theresa L. Walunas, Deborah J. Lenochow, Christina Y. Bakker, Peter S. Limley, Gordon J. Freeman, Jonathan M. Green, Craig B. Thompson, and Jeffrey A. Bluestone

BRIEF REVIEWS

3475 Antimicrobial Aspects of Inflammatory Resolution in the Mucosa: A Role for Proresolving Mediators
Eric L. Campbell, Charles N. Serhan, and Sean P. Colgan

CUTTING EDGE

3483 Cutting Edge: Mouse CD300f (CMRF-35–Like Molecule-1) Recognizes Outer Membrane-Exposed Phosphatidylserine and Can Promote Phagocytosis
Seung-Chul Choi, Venkateswara R. Simhadri, Linjie Tian, Aleksandra Gil-Krzewska, Konrad Krzewski, Francisco Borrego, and John E. Coligan

3488 Cutting Edge: Virus Selectively Primed Human Langerhans Cells for CD70 Expression Promoting CD8+ T Cell Responses
Angelic M. G. van der Aar, Rosa de Groot, Marta Sanchez-Hernandez, Esther W. M. Tuanman, René A. W. van Lier, Marcel B. M. Tunnissen, Esther C. de Jong, and Martien L. Kapenberg

On the cover: Intermolecular ionic interactions between lipid A and human TLR4 are key interactions in the human TLR4/MD-2/LPS cocrystal structure. Color scheme: TLR4 is white and light purple (surface view), MD-2 is yellow and brown (surface view), and the lipid A portion of LPS is green and red (stick view). The graphics were created in PyMol.

3493 Cutting Edge: Accelerated Autoimmune Diabetes in the Absence of LAG-3

Maria Bettini, Andrea L. Szmyczak-Workman, Karen Forbes, Ashley H. Castellaw, Mark Selby, Xiaoyu Pan,
Charles G. Drake, Alan J. Korman, and Dario A. A. Vignali

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

3499 Modulation of IL-7 Thresholds by SOCS Proteins in Developing B Lineage Cells

Steven A. Corfe, Robert Rottapel, and Christopher J. Paige

3511 Low-Dose Antigen Promotes Induction of FOXP3 in Human CD4+ T Cells

S. Alice Long, Mary Rieck, Megan Tatsum, Paul L. Bolby, Rebecca P. Wu, Isabelle Muller, Jhon-Chun Ho,
Heather G. Shilling, and Jane H. Buckner

3521 Foxp3+-Inducible Regulatory T Cells Suppress Endothelial Activation and Leukocyte Recruitment

Elena Maganto-García, De-xiu Bu, Margarite L. Tarrin, Pilar Alcaide, Gail Newton, Gabriel K. Griffin, Kevin J. Croce,
Francis W. Luscinskas, Andrew H. Lichtman, and Nir Grabie

3530 Dual TCR Expression Biases Lung Inflammation in DO11.10 Transgenic Mice and Promotes Neutrophilia
via Microbiota-Induced Th17 Differentiation

Muriel M. Lemaire, Laure Dumoutier, Guy Warnier, Catherine Uyttenhove, Jacques Van Snick, Magali de Heusch,
Monique Stevens, and Jean-Christophe Renaud

3538 Cancer Immunoediting of the NK Group 2D Ligand H60a

Timothy O’Sullivan, Gavin P. Dunn, Daphne Y. Lacoursiere, Robert D. Schreiber, and Jack D. Bui

3546 Selenite Induces Posttranscriptional Blockade of HLA-E Expression and Sensitizes Tumor Cells to
CD94/NKG2A-Positive NK Cells

Monika Enqvist, Gustav Nilsonne, Oscar Hammarström, Robert P. A. Wallin, Niklas K. Björkström, Mikael Björnstedt,
Anders Hjerppe, Hans-Gustaf Jänggren, Katalin Dobra, Karl-Johan Malmberg, and Mattias Carlsten

3555 CD134 Plus CD137 Dual Costimulation Induces Eomesodermin in CD4 T Cells To Program Cytotoxic
Th1 Differentiation

Harry Z. Qui, Adam T. Hagymasi, Suman Bandypadhyay, Marie-Clare St. Rose, Raghuunath Ramanarasimhaiah,
Antoine Ménoret, Robert S. Mittler, Scott M. Gordon, Steven L. Reiner, Anthony T. Vella, and Adam J. Adler

3565 Differential Expression of the Adaptor Protein HSH2 Controls the Quantitative and Qualitative Nature of
the Humoral Response

R. Glenn King, Brantley R. Herrin, and Louis B. Justement

3578 MicroRNA-155 Is Essential for the T Cell-Mediated Control of Helicobacter pylori Infection and for the
Induction of Chronic Gastritis and Colitis

Matthias Oertli, Daniela B. Engler, Esther Kohler, Manuel Koch, Thomas F. Meyer, and Anne Müller

3587 IL-7 Is Required for the Development of the Intrinsic Function of Marginal Zone B Cells and the Marginal
Zone Microenvironment

Leen Willems, Shengqiao Li, Omer Rutgeerts, Caroline Lenaerts, Mark Waer, and An D. Billiau

3595 Transgenic Eimeria tenella Expressing Enhanced Yellow Fluorescent Protein Targeted to Different Cellular
Compartments Stimulated Dichotomic Immune Responses in Chickens

Xiaoxi Huang, Jun Zou, Hangqian Xu, Ye Ding, Guangwen Yin, Xianyong Liu, and Xun Suo

3603 Mycophenolic Acid Differentially Impacts B Cell Function Depending on the Stage of Differentiation

Jodi L. Karnell, Fredrick G. Karnell, III, Geoffrey L. Stephens, Bhargavi Rajan, Chris Morehouse, Ying Li, Bonnie Sweedlow,
Mildred Wilson, Raphaela Goldbach-Mansky, Christopher Groves, Anthony J. Coyle, Ronald Herbst, and Rachel Ettinger

3613 TCR-Induced Activation of LFA-1 Involves Signaling through Tiam1

Mikaela Grönholt, Farhana Jahan, Silvia Marchesan, Ulla Karvonen, Maria Autonén, Suneeta Narunacchi,
and Carl G. Gahmberg

3620 ORAI1 Deficiency Impairs Activated T Cell Death and Enhances T Cell Survival

Kyun-Do Kim, Sonal Srikanth, Ma-Khin Win Yee, Dennis C. Mock, Gregory W. Lawson, and Youiang Gwack
3631 An Age-Specific CD8⁺ T Cell Pathway That Impairs the Effectiveness of Strategies To Prolong Allograft Survival  
Wei Du, Hua Shen, Anjela Galan, and Daniel R. Goldstein

3641 Complement Activation and Complement Receptors on Follicular Dendritic Cells Are Critical for the Function of a Targeted Adjuvant  
Johan Mattsson, Ulf Yrlid, Anneli Stenson, Karin Schön, Mikael C. I. Karlson, Jeffrey V. Ravetch, and Nils Y. Lycke

3653 Ocular Surface APCs Are Necessary for Autoreactive T Cell-Mediated Experimental Autoimmune Lacrimal Keratoconjunctivitis  

3663 A Live Imaging Cell Motility Screen Identifies Prostaglandin E₂ as a T Cell Stop Signal Antagonist  
Andrew J. Wiemer, Subramanya Hegde, Jenny E. Gumperz, and Anna Huttenlocher

3671 Macrophages at the Fetal–Maternal Interface Express Markers of Alternative Activation and Are Induced by M-CSF and IL-10  
Judit Svensson, Maria C. Jenmalm, Andreas Matussek, Robert Geffers, Göran Berg, and Jan Ernerudh

MOLECULAR AND STRUCTURAL IMMUNOLOGY

3683 Genome-Wide Expression Profiling and Mutagenesis Studies Reveal that Lipopolysaccharide Responsiveness Appears To Be Absolutely Dependent on TLR4 and MD-2 Expression and Is Dependent upon Intermolecular Ionic Interactions  
Jianmin Meng, Mei Gong, Harry Björkbacka, and Douglas T. Golenbock

3694 Mutagenesis of Beryllium-Specific TCRs Suggests an Unusual Binding Topology for Antigen Recognition  
Natalie A. Bowerman, Michael T. Falta, Douglas G. Mack, John W. Kappler, and Andrew P. Fontenot

3704 Epitope-Specific Human Influenza Antibody Repertoires Diversify by B Cell Intraclonal Sequence Divergence and Interclonal Convergence  
Jens C. Krause, Tshidi Tsibane, Terrence M. Tumpey, Chelsey J. Huffman, Bryan S. Briney, Scott A. Smith, Christopher F. Basler, and James E. Crowe, Jr.

3712 Modulation of the Murine CD8 Gene Complex Following the Targeted Integration of Human CD2-Locus Control Region Sequences  
Ursula Menzel, Theodoros Kostas, Mauro Tolaini, Nigel Killeen, Kathleen Roderick, and Dimitris Kiousis

3721 IL-2 Regulates Expression of C-MAF in Human CD4 T Cells  

IMMUNOGENETICS

3730 Virus-Specific CD8⁺ T Cells Upregulate Programmed Death-1 Expression during Acute Friend Retrovirus Infection but Are Highly Cytotoxic and Control Virus Replication  
Gennadiy Zelinskyy, Lara Myers, Kirsten K. Dietze, Kathrin Gibbert, Michael Roggendorf, Jia Liu, Mengji Lu, Anke R. Kraft, Volker Teichgräber, Kim J. Hasenkrug, and Ulf Dittmer

HOST DEFENSE

3738 Combining Liver- and Blood-Stage Malaria Viral-Vectored Vaccines: Investigating Mechanisms of CD8⁺ T Cell Interference  
Emily K. Forbes, Sumi Biswas, Katharine A. Collins, Sarah C. Gilbert, Adrian V. S. Hill, and Simon J. Draper

3751 The Role of Mannose-Binding Lectin-Associated Serine Protease-3 in Activation of the Alternative Complement Pathway  
Daisuke Iwaki, Kazuko Kanno, Minoru Takahashi, Yuichi Endo, Misa Matushita, and Teizo Fujita
Functional CD8 T Cell Memory Responding to Persistent Latent Infection Is Maintained for Life
Anna Lang and Janko Nikolich-Zugich

Host Immunity and Pathogen Strain Contribute to Intestinal Disaccharidase Impairment following Gut Infection
Shahram Solaymani-Mohammadi and Steven M. Singer

Expression of the Leptin Receptor outside of Bone Marrow-Derived Cells Regulates Tuberculosis Control and Lung Macrophage MHC Expression
Maria P. Lemos, Kyu Y. Rhee, and John D. McKinney

Rescue of HIV-1 Broad Neutralizing Antibody-Expressing B Cells in 2F5 V_{14} × V_{1} Knockin Mice Reveals Multiple Tolerance Controls
Laurent Verkoczy, Yao Chen, Hilary Bouton-Verville, Jinning Zhang, Marilyn Diaz, Jennifer Hutchinson, Ying-Bin Ouyang, S. Munir Alam, T. Matt Holt, Kwan-Ki Hwang, Garnett Kelsoe, and Barton F. Haynes

TLR Regulation of SPSB1 Controls Inducible Nitric Oxide Synthase Induction
Rowena S. Lewis, Tatiana B. Kolesnik, Zhihe Kuang, Akshay A. D'Cruz, Marnie E. Blewitt, Seth L. Masters, Andrew Low, Tracy Willson, Raymond S. Norton, and Sandra E. Nicholson

The Process of Macrophage Migration Promotes Matrix Metalloproteinase-Independent Invasion by Tumor Cells
Romain Guiet, Emeline Van Goethem, Céline Cougoule, Stéphanie Balor, Annie Valette, Talal Al Saati, Clifford A. Lowell, Véronique Le Cabec, and Isabelle Maridonneau-Parini

IFN-γ Acts on the Airway Epithelium To Inhibit Local and Systemic Pathology in Allergic Airway Disease
Charlotte Mitchell, Karin Provost, Naigian Niu, Robert Homer, and Lauren Cohn

Experimental Arthritis Triggers Periodontal Disease in Mice: Involvement of TNF-α and the Oral Microbiota

A TLR5 Agonist Inhibits Acute Renal Ischemic Failure
Nobuyuki Fukuzawa, Marianne Petro, William M. Baldwin, III, Andrei V. Gudkov, and Robert L. Fairchild

Depletion of Autoreactive Plasma Cells and Treatment of Lupus Nephritis in Mice Using CEP-33779, a Novel, Orally Active, Selective Inhibitor of JAK2
Lily D. Lu, Kristine L. Stump, Nate H. Wallace, Pawel Dobrozanski, Cynthia Serdikoff, Diane E. Gingrich, Benjamin J. Dugan, Thelma S. Angeles, Mark S. Alborn, Jennifer L. Mason, Mark A. Ator, Bruce D. Dorsey, Bruce A. Ruggeri, and Matthew M. Seavey

Myeloid-Specific Expression of Human Lysosomal Acid Lipase Corrects Malformation and Malfunction of Myeloid-Derived Suppressor Cells in \( lal^{-/-} \) Mice
Peng Qu, Cong Yan, Janice S. Blum, Reuben Kapur, and Hong Du

Glycogen Synthase Kinase-3 Facilitates Con A-Induced IFN-γ–Mediated Immune Hepatic Injury
Cheng-Chieh Tai, Wei-Ching Huang, Chia-Ling Chen, Chia-Yuan Hsieh, Yee-Shin Lin, Shun-Hua Chen, Kao-Chi Yang, and Chieh-Feng Lin

The P2X_{7} Receptor and Pannexin-1 Are Both Required for the Promotion of Multinucleated Macrophages by the Inflammatory Cytokine GM-CSF
Irma Lemaire, Simonetta Falzon, Bin Zhang, Patrizia Pellegatti, and Francesco Di Virgilio

An Acquired Defect in IgG-Dependent Phagocytosis Explains the Impairment in Antibody-Mediated Cellular Depletion in Lupus
Anupama Abuja, Lino L. Teichmann, Haowei Wang, Robert Dunn, Marilyn R. Kehry, and Mark J. Shlomchik
Human Natural Regulatory T Cell Development, Suppressive Function, and Postthymic Maturation in a Humanized Mouse Model

Takashi Onoe, Hannes Kalcheuer, Nichole Danzl, Meredith Chittenden, Guiling Zhao, Yong-Guang Yang, and Megan Sykes

AUTHOR INDEX