This information is current as of July 25, 2017.
IN THIS ISSUE

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

1: 405–413
Theresa L. Walunas, Deborah J. Lenochow, Christina Y. Bakker, Peter S. Linseley, 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 Primes 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. Teunissen, Esther C. de Jong, and Martien L. Kapsenberg

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. Meng, J., M. Gong, H. Björkbacka, and D. T. Golenbock. 2011. 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. J. Immunol. 187: 3683–3693.
Cutting Edge: Accelerated Autoimmune Diabetes in the Absence of LAG-3
Maria Bettini, Andrea L. Szymczak-Workman, Karen Forbes, Ashley H. Castellaw, Mark Selby, Xiaoya Pan, Charles G. Drake, Alan J. Korman, and Dario A. A. Vignali

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

Modulation of IL-7 Thresholds by SOCS Proteins in Developing B Lineage Cells
Steven A. Corfe, Robert Rottapel, and Christopher J. Paige

Low-Dose Antigen Promotes Induction of FOXP3 in Human CD4+ T Cells
S. Alice Long, Mary Rieck, Megan Tatum, Paul L. Bolby, Rebecca P. Wu, Isabelle Muller, Jhon-Chun Ho, Heather G. Shilling, and Jane H. Buckner

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

Dual TCR Expression Biases Lung Inflammation in DO11.10 Transgenic Mice and Promotes Neutrophilia via Microbiota-Induced Th17 Differentiation
Muriel M. Lemaire, Laure Dumontier, Guy Warnier, Catherine Uyttenhove, Jacques Van Snick, Magali de Heusch, Monique Stevens, and Jean-Christophe Renaud

Cancer Immunoediting of the NK Group 2D Ligand H60a
Timothy O’Sullivan, Gavin P. Dunn, Daphne Y. Lacoursiere, Robert D. Schreiber, and Jack D. Bai

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

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, Raghunath Ramanarasimhaiah, Antoine Ménoret, Robert S. Mittler, Scott M. Gordon, Steven L. Reiner, Anthony T. Vella, and Adam J. Adler

Differential Expression of the Adaptor Protein HSH2 Controls the Quantitative and Qualitative Nature of the Humoral Response
R. Glenn King, Brautley R. Herrin, and Louis B. Justement

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

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

Transgenic Eimeria tenella Expressing Enhanced Yellow Fluorescent Protein Targeted to Different Cellular Compartments Stimulated Dichotomous Immune Responses in Chickens
Xiaoxi Huang, Jun Zou, Hangqian Xu, Ye Ding, Guangwen Yin, Xiaoyang Liu, and Xun Suo

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 Swerdlow, Mildred Wilson, Rafaela Goldbach-Mansky, Christopher Groves, Anthony J. Coyle, Ronald Herbst, and Rachel Ettinger

TCR-Induced Activation of LFA-1 Involves Signaling through Tiam1
Mikaela Grönhalm, Farhana Jahan, Silvia Marchesan, Ulla Karvonen, Maria Aatonen, Sunee Na Runmauchi, and Carl G. Gahmberg

ORAII 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
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

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. Karlsson, Jeffrey V. Ravetch, and Nils Y. Lycke

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

A Live Imaging Cell Motility Screen Identifies Prostaglandin E\(_2\) as a T Cell Stop Signal Antagonist
Andrew J. Wiemer, Subramanya Hegde, Jenny E. Gumperz, and Anna Huttenlocher

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

MOLECULAR AND STRUCTURAL IMMUNOLOGY

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

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

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.

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

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

IMMUNOGENETICS

Virus-Specific CD8\(^+\) T Cells Upregulate Programmed Death-1 Expression during Acute Friend Retrovirus Infection but Are Highly Cytotoxic and Control Virus Replication
Gennady Zelinskyy, Lara Myers, Kirsten A. Dietze, Kathrin Gibbent, Michael Røggendorf, Jia Liu, Mengji Lu, Anke R. Kraft, Volker Teichgräber, Kim J. Hasenkamp, and Ulf Dittmer

HOST DEFENSE

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

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 Matsuishi, and Teizo Fujita
3759 Functional CD8 T Cell Memory Responding to Persistent Latent Infection Is Maintained for Life
Anna Lang and Janko Nikolich-Zugich

3769 Host Immunity and Pathogen Strain Contribute to Intestinal Disaccharidase Impairment following Gut Infection
Shabnam Solaymani-Mohammadi and Steven M. Singer

3776 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

3785 Rescue of HIV-1 Broad Neutralizing Antibody-Expressing B Cells in 2F5 V1 × V1 Knockin Mice Reveals Multiple Tolerance Controls
Laurent Verkoczy, Yao Chen, Hilary Bouton-Verville, Jingwen Zhang, Marilyn Diaz, Jennifer Hutchinson, Ying-Bin OuYang, S. Munir Alam, T. Matt Hall, Kwan-Ki Huang, Garrett Kelsoe, and Barton F. Haynes

3798 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

INFLAMMATION

3806 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

3815 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

3821 Experimental Arthritis Triggers Periodontal Disease in Mice: Involvement of TNF-α and the Oral Microbiota

3831 A TLR5 Agonist Inhibits Acute Renal Ischemic Failure
Nobuyuki Fukuzawa, Marianne Petro, William M. Baldwin, III, Andrei V. Gudkov, and Robert L. Fairchild

3840 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 Dobrzanski, 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

3854 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

3867 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, Kuo-Chi Yang, and Chiu-Feng Lin

3878 The P2X7 Receptor and Pannexin-1 Are Both Required for the Promotion of Multinucleated Macrophages by the Inflammatory Cytokine GM-CSF
Irma Lemaire, Simonetta Falzoni, Bin Zhang, Patrizia Pellegatti, and Francesco Di Virgilio

CLINICAL IMMUNOLOGY

3888 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