179 (10)

This information is current as of April 19, 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
6377  IN THIS ISSUE

CUTTING EDGE

6379  Cutting Edge: Identification of a Pre-Ligand Assembly Domain (PLAD) and Ligand Binding Site in the IL-17 Receptor

6384  Cutting Edge: Rac GTPases Sensitize Activated T Cells to Die via Fas

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

6389  Tolerance Induction in Presensitized Bone Marrow Recipients by Veto CTLs: Effective Deletion of Host Anti-Donor Memory Effector Cells
    Shlomit Reich-Zeliger, Esther Bachar-Lustig, Avichai Bar-Ilan, and Yair Reisner

6395  Differentiation and Ig-Allele Switch in Cell Line WEHI-231
    Freia J. X. Spillmann, Gabriele Beck-Engeser, and Matthias Wabl

6403  Age-Related Defects in Moesin/Ezrin Cytoskeletal Signals in Mouse CD4 T Cells
    Gonzalo G. Garcia, Amir A. Sadighi Akha, and Richard A. Miller

6410  Temporal and Spatial Changes of Histone 3 K4 Dimethylation at the IFN-γ Gene during Th1 and Th2 Cell Differentiation
    Heli K. Hamalainen-Laamaya, James J. Kobie, Chawnnshang Chang, and Wei-ting Zeng

6416  The Activating Immunoreceptor NKG2D and Its Ligands Are Involved in Allograft Transplant Rejection

6421  Augmentation of Antigen-Presenting and Th1-Promoting Functions of Dendritic Cells by WSX-1(IL-27R) Deficiency
    Sen Wang, Yoshiyuki Miyazaki, Yukari Shinozaki, and Hiroki Yoshiда

On the cover: Resolution of inflammation by a naturally occurring endogenous lipid mediator, Resolvin E1, results in complete regeneration of pathologically lost tissues, including bone. Regeneration of tissues lost to disease is problematic in many human diseases, such as arthritis and periodontitis. Resolvin E1 promotes regeneration of the periodontal organ (periodontal ligament, cementum, and bone) as shown. Hasturk, H., A. Kantarci, E. Goguet-Surmenian, A. Blackwood, C. Andry, C. N. Serhan, and T. E. Van Dyke. 2007. Resolvin E1 regulates inflammation at the cellular and tissue level and restores tissue homeostasis in vivo. J. Immunol. 179: 7021–7029.
Differences in Expression, Affinity, and Function of Soluble (s)IL-4Rα and sIL-13Rα2 Suggest Opposite Effects on Allergic Responses
Marat Khodoun, Christina Lewis, Jun-Qi Yang, Tatjana Orekov, Crystal Potter, Thomas Wynn, Margaret Mentink-Kane, Gurjit K. Khurana Hershey, Marsha Wills-Karp, and Fred D. Finkelman

Preferential Migration of T Regulatory Cells Induced by IL-16
Caroline McFadden, Ross Morgan, Shilpa Rahangdale, Daniel Green, Hiato Yamasaki, David Center, and William Cruikshank

IL-4 Suppresses Dendritic Cell Response to Type I Interferons
Uma Sriram, Chhanda Biswas, Edward M. Behrens, Joudy-Ann Dinnall, Debra K. Shivers, Marc Monestier, Yair Argon, and Stefania Gallucci

The Requirement of Reversible Cysteine Sulfenic Acid Formation for T Cell Activation and Function
Ryan D. Michalek, Kimberly J. Nelson, Beth C. Hollbrook, John S. Yi, Daya Stridiron, Larry W. Daniel, Jacquelyn S. Fetrow, S. Bruce King, Leslie B. Poole, and Jason M. Grayson

Select Plant Tannins Induce IL-2Rα Up-Regulation and Augment Cell Division in γδ T Cells

Leflunomide Inhibits PDK1/Akt Pathway and Induces Apoptosis of Human Mast Cells
Norifumi Sawamukai, Kazuyoshi Saito, Kunihiro Yamaoka, Shinji Nakayama, Chisie Ra, and Yoshiya Tanaka

CCR7 Signaling Inhibits T Cell Proliferation
Ekkehard Ziegler, Martin Oberbarnscheidt, Silvia Bulpone-Paus, Reinhold Förster, Ulrich Kunzendorf, and Stefan Krautwald

Memory CD8+ T Cells Require CD28 Costimulation
Annie B. Borowski, Alina C. Boesteanu, Yvonne M. Mueller, Caterina Carafides, David J. Topham, John D. Altman, Stephen R. Jennings, and Peter D. Katsikis

Requirement for Both JAK-Mediated PI3K Signaling and ACT1/TRAF6/TAK1-Dependent NF-κB Activation by IL-17A in Enhancing Cytokine Expression in Human Airway Epithelial Cells
Fei Huang, Cheng-Yuan Kao, Shinichiro Wachi, Philip Thai, Jisu Ryu, and Reen Wu

CD4+CD28null T Cells in Autoimmune Disease: Pathogenic Features and Decreased Susceptibility to Immunoregulation
Marielle Thewissen, Veerle Somers, Niels Helling, Judith Fraussen, Jan Danoiseaux, and Piet Stinissen

The Lipopolysaccharide Adjuvant Effect on T Cells Relies on Nonoverlapping Contributions from the MyD88 Pathway and CD11c+ Cells
Jeremy P. McAleer, David J. Zammit, Leo Lefrançois, Robert J. Rossi, and Anthony T. Vella

IL-1α and IL-1β Are Endogenous Mediators Linking Cell Injury to the Adaptive Alloimmune Response
Deepak A. Rao, Kevin J. Tracey, and Jordan S. Pober

Naive and Memory T Cells Induce Different Types of Graft-versus-Host Disease
Suparna Dutt, Diane Tseng, Joerg Ermann, Tracy I. George, Yin Ping Liu, Corrine R. Davis, C. Garrison Fathman, and Samuel Strober

Spontaneous Class Switch Recombination in B Cell Lymphopoiesis Generates Aberrant Switch Junctions and Is Increased after VDJ Rearrangement
Efrat Edry, Sergei B. Koralov, Klaus Rajewsky, and Doron Melamed

Intrahepatic Lymphocyte Expression of Dipeptidyl Peptidase I-Processed Granzyme B and Perforin Induces Hepatocyte Expression of Serine Proteinase Inhibitor 6 (Serpinc6/SPI-6)
Heather W. Stout-Delgado, Yonas Getachew, Bonnie C. Miller, and Dwain L. Thiele

The Bw Cells, a Novel B Cell Population Conserved in the Whole Genus Mus
Aude Thiriot, Anne-Marie Drapier, Paulo Vieira, Catherine Fitting, Jean-Marc Cavaillon, Pierre-André Cazenave, and Dominique Rueff-Juy
Donor Bone Marrow Type II (Non-Vα14/α18 CD1d-Restricted) NKT Cells Suppress Graft-Versus-Host Disease by Producing IFN-γ and IL-4
Ji Hyung Kim, Eun Young Choi, and Doo Hyun Chung

Secretory Leukoprotease Inhibitor in Mucosal Lymph Node Dendritic Cells Regulates the Threshold for Mucosal Tolerance

A Proximal kB Site in the IL-23 p19 Promoter Is Responsible for RelA- and c-Rel-Dependent Transcription
Setsuko Mise-Omata, Etsushi Kuroda, Junko Niikura, Uki Yamashita, Yaichi Obata, and Takahiro S. Doi

Molecular Mimics Can Induce Novel Self Peptide-Reactive CD4+ T Cell Clonotypes in Autoimmune Disease
Anne M. Ercolini and Stephen D. Miller

Nitric Oxide Mediates T Cell Cytokine Production and Signal Transduction in Histidine Decarboxylase Knockout Mice
Agnes Koncz, Maria Puszto, Mercedes Mazan, Ferenc Fazakas, Edit Buzas, Andras Falus, and Gyorgy Nagy

Type 1 IFN Mediates Cross-Talk between Innate and Adaptive Immunity That Abrogates Transplantation Tolerance

Peripheral NK1.1− NKT Cells Are Mature and Functionally Distinct from Their Thymic Counterparts

Increased Sequence Diversity Coverage Improves Detection of HIV-Specific T Cell Responses

CD8 T Cell Help for Innate Antitumor Immunity
Anil Shanker, Gregory Verdeil, Michel Berneke, Elise-Marit Inderberg-Suso, Denis Puthier, Florence Joly, Catherine Nguyen, Lee Leserman, Nathalie Auphan-Anezin, and Anne-Marie Schmitt-Verhulst

Primary Development and Participation in a Foreign Antigen-Driven Immune Response of a Chromatin-Reactive B Cell Clonotype Are Not Influenced by TLR9 or Other MyD88-Dependent TLRs
Francis Coffey, Xiaobo Liu, and Tim Manser

Dual Role of Melanoma Cell Adhesion Molecule (MCAM)/CD146 in Lymphocyte Endothelium Interaction: MCAM/CD146 Promotes Rolling via Microvilli Induction in Lymphocyte and Is an Endothelial Adhesion Receptor
Borhane Guezguez, Pascale Vigneron, Nathalie Lamerant, Claudine Kieda, Thierry Jaffredo, and Dominique Dunon

Anti-CD40 Conditioning Enhances the T_{CD8} Response to a Highly Tolerogenic Epitope and Subsequent Immunotherapy of Simian Virus 40 T Antigen-Induced Pancreatic Tumors
Pavel Otahal, Barbara B. Knowles, Satvir S. Tevethia, and Todd D. Schell

Impact of CD40 Ligand, B Cells, and Mast Cells in Peanut-Induced Anaphylactic Responses
Jiangfeng Sun, Katherine Arias, David Alvarez, Ramzi Fattouh, Tina Walker, Suatina Goucharova, Bobae Kim, Susan Wasserman, Jennifer Reed, Anthony J. Cope, and Manel Jordana

Strength of Stimulus and Clonal Competition Impact the Rate of Memory CD8 T Cell Differentiation
Surojit Sarkar, Volker Teichgraber, Vandana Kalia, Antonio Polley, David Masopust, Laurie E. Harrington, Raaf Ahmed, and E. John Wherry
Cell Surface Colony-Stimulating Factor 1 Can Be Cleaved by TNF-α Converting Enzyme or Endocytosed in a Clathrin-Dependent Manner
Keisuke Horiuchi, Takeshi Miyamoto, Hironori Takaishi, Akihiro Hakozaki, Naoto Kosaki, Yoshiteru Miyachi, Mitsuru Furukawa, Jiro Takito, Hironori Kaneko, Kenichiro Matsuzaki, Hideo Morioka, Carl P. Blobel, and Yoshiaki Toyama

Duration of Antigen Expression In Vivo following DNA Immunization Modifies the Magnitude, Contraction, and Secondary Responses of CD8+ T Lymphocytes
Avi-Hai Hovav, Michael W. Panas, Shaila Rahman, Piya Sircar, Geoffrey Gillard, Mark J. Cayabyab, and Norman L. Letvin

Dual Roles of IL-15 in Maintaining IL-7RαlowCCR7− Memory CD8+ T Cells in Humans via Recovering the Phosphatidylinositol 3-Kinase/AKT Pathway
Hang-Rae Kim, Kyung-A Hwang, and Insoo Kang

Shaping of the Autoreactive Regulatory T Cell Repertoire by Thymic Cortical Positive Selection
Julie Ribot, Geneviève Enault, Sylvie Pilipenko, Anne Hucheng, Maryline Calise, Denis Hudrisier, Paola Romagnoli, and Joost P. M. van Meerwijk

Developmental Exposure to Noninherited Maternal Antigens Induces CD4+ T Regulatory Cells: Relevance to Mechanism of Heart Allograft Tolerance

Induction of Robust Diabetes Resistance and Prevention of Recurrent Type 1 Diabetes Following Islet Transplantation by Gene Therapy
Chaorui Tian, Mohammed Javeed I. Anvari, Jesus Paez-Cortez, Jesamyn Bagley, Jonathan Godwin, Michela Donnarumma, Mohamed H. Sayegh, and John Iacomini

Sulfated Glycosphingolipid as Mediator of Phagocytosis: SM4s Enhances Apoptotic Cell Clearance and Modulates Macrophage Activity
Zoran V. Popovic, Roger Sandhoff, Tjeerd P. Sijmonsma, Sylvia Kaden, Richard Jennemann, Eva Kiss, Edgar Tone, Frank Autschbach, Nick Platt, Ernst Malle, and Hermann-Josef Gröne

Localization and Differential Expression of Activation-Induced Cytidine Deaminase in the Amphibian Xenopus upon Antigen Stimulation and during Early Development
Shauna Marr, Heidi Morales, Andrea Bottaro, Michelle Cooper, Martin Flajnik, and Jacques Robert

IL-6 Contributes to the Expression of RAGs in Human Mature B Cells
Sophie Hillion, Maryvonne Dueymes, Pierre Youinou, and Christophe Jamin

Developmental Stage-Dependent Collaboration between the TNF Receptor-Associated Factor 6 and Lymphotoxin Pathways for B Cell Follicle Organization in Secondary Lymphoid Organs
Junwen Qin, Hiroyasu Konno, Daisuke Ohshima, Hiromi Yanai, Hidehiko Matagi, Yusuke Shimo, Funiko Hirota, Mitsuru Matsumoto, Satoshi Takaki, Jun-ichiro Iinoue, and Taishin Akiyama

Transcriptional Profiling of Antigen-Dependent Murine B Cell Differentiation and Memory Formation
Deepta Bhattacharya, Ming T. Cheah, Christopher B. Franco, Naoki Hosen, Christopher L. Pin, William C. Sha, and Irving L. Weissman

PTEN Down-Regulates IL-17 Expression in a Murine Model of Toluene Diisocyanate-Induced Airway Disease
So Ri Kim, Kyung Sun Lee, Seoung Ju Park, Kyung Hoon Min, Ka Young Lee, Yeong Hun Cho, Young Rae Lee, Jong Suk Kim, Soo Jong Hong, and Yong Chul Lee

Langerhans Cells Are Required for Efficient Presentation of Topically Applied Hapten to T Cells
Clare L. Bennett, Madelon Noordegraaf, Ceritha A. E. Martina, and Björn E. Clausen

Raf Signaling but not the ERK Effector SAP-1 Is Required for Regulatory T Cell Development
Jane E. Willoughby, Patrick S. Costello, Robert H. Nicolas, Nicholas J. Robinson, Gordon Stamp, Fiona Powrie, and Richard Treisman
MOLECULAR AND STRUCTURAL IMMUNOLOGY

6845 Early and Dynamic Polarization of T Cell Membrane Rafts and Constituents Prior to TCR Stop Signals
Jeffrey S. Van Komen, Sudha Mishra, Jennifer Byrum, Gurunadh R. Chichili, Jane C. Yaciuk, A. Davise Farris, and William Rodgers

6856 Distinctive Interactions at Multiple Site 2 Subsites by Allele-Specific Rat and Mouse Ly49 Determine Functional Binding and Class I MHC Specificity
Kerry J. Lavender, Heidi H. Chau, and Kevin P. Kane

6867 Spatiotemporal Mobilization of Toll/IL-1 Receptor Domain-Containing Adaptor Molecule-1 in Response to dsRNA
Kenji Funami, Miwa Satai, Yusuke Obha, Hiroyuki Ohshimi, Tsucha Seya, and Misako Matsumoto

6873 JunB Is Required for IgE-Mediated Degranulation and Cytokine Release of Mast Cells
Björn Textor, Alexander H. Licht, Jan P. Tuckermann, Rolf Jesberger, Ebdud Razine, Peter Angel, Marina Schorpp-Kistner, and Bettina Hartenstein

6881 Targeting IFN-α to B Cell Lymphoma by a Tumor-Specific Antibody Elicits Potent Antitumor Activities
Tzu-Hsuan Huang, Koteswara R. Chintalacharuvu, and Sherie L. Morrison

HOST DEFENSE

6889 Trans-Sialidase Recombinant Protein Mixed with CpG Motif-Containing Oligodeoxynucleotide Induces Protective Mucosal and Systemic Trypanosoma cruzi Immunity Involving CD8α+ CTL and B Cell-Mediated Cross-Primming
Daniel F. Hoft, Christopher S. Eickhoff, Olivia K. Giddings, José R. C. Vasconcelos, and Mauricio M. Rodrigues

6901 LIGHT Is Critical for IL-12 Production by Dendritic Cells, Optimal CD4+ Th1 Cell Response, and Resistance to Leishmania major
Guilian Xu, Dong Liu, Ifeoma Okwor, Yang Wang, Heinrich Korner, Sam K. P. Kung, Yang-Xin Fu, and Jude E. Uzonna

6910 CCAAT/Enhancer-Binding Protein β and β Binding to CIITA Promoters Is Associated with the Inhibition of CIITA Expression in Response to Mycobacterium tuberculosis 19-kDa Lipoprotein
Meghan E. Pennini, Yi Liu, Jianqi Yang, Colleen M. Croniger, W. Henry Boom, and Clifford V. Harding

6919 Progression of Pulmonary Tuberculosis and Efficiency of Bacillus Calmette-Guérin Vaccination Are Genetically Controlled via a Common sst1-Mediated Mechanism of Innate Immunity
Bo-Shiun Yan, Alexander V. Pichugin, Osman Jofe, Laura Helming, Eugene B. Erulanan, José A. Gutiérrez-Pabello, Mauricio Rojas, Yuri V. Shezhukov, Lester Kobzik, and Igor Kramnik

6933 Inflammasome-Mediated Production of IL-1β Is Required for Neutrophil Recruitment against Staphylococcus aureus In Vivo

6943 Noduler, A Novel Immune Up-Regulated Protein Mediates Nodulation Response in Insects
Archana S. Gandhe, Serene H. John, and Javaregowda Nagraj

6952 The Aryl Hydrocarbon Receptor Is Required for Optimal Resistance to Listeria monocytogenes Infection in Mice
Lewis Zhichang Shi, Nancy G. Faith, Yumi Nakayama, Makulaisiddappa Suresh, Howard Steinberg, and Charles J. Czapynski

6963 Impaired Macrophage Function Underscores Susceptibility to Salmonella in Mice Lacking Irgm1 (LRG-47)
Stanley C. Henry, Xiaojou Daniell, Maanasa Indaram, John F. Whitesides, Gregory D. Sempowski, David Howell, Tim Oliver, and Gregory A. Taylor

6973 HIV Impairs TNF-α Mediated Macrophage Apoptotic Response to Mycobacterium tuberculosis
Altered Inflammatory Responses in TLR5-Deficient Mice Infected with *Legionella pneumophila*
Thomas R. Hawn, William R. Berrington, Ian A. Smith, Satoshi Uematsu, Shizuo Akira, Alan Aderem, Kelly D. Smith, and Shawn J. Skerrett

**INFLAMMATION**

Differential Expression of Inflammatory and Fibrogenic Genes and Their Regulation by NF-κB Inhibition in a Mouse Model of Chronic Colitis
Feng Wu and Shukti Chakravarti

Src Tyrosine Kinases Mediate Activations of NF-κB and Integrin Signal during Lipopolysaccharide-Induced Acute Lung Injury
Hui S. Lee, Changsuk Moon, Hye W. Lee, Eun-Mi Park, Min-Sun Cho, and Jihee L. Kang

Resistin-Like Molecule β (RELMβ/FIZZ2) Is Highly Expressed in the Ileum of SAMP1/YitFc Mice and Is Associated with Initiation of Ileitis
Sean L. Barnes, Alda Vidrich, Mei-Lun Wang, Gary D. Wu, Fabio Cominelli, Jesus Rivera-Nieves, Giorgos Bamias, and Steven M. Cohn

Resolvin E1 Regulates Inflammation at the Cellular and Tissue Level and Restores Tissue Homeostasis In Vivo
Hatice Hasturk, Alpdogan Kantarci, Emilie Goguet-Surmenian, Amanda Blackwood, Chris Andry, Charles N. Serhan, and Thomas E. Van Dyke

Inhibition of NF-κB Activation Reduces the Tissue Effects of Transgenic IL-13
Svetlana P. Chapoval, Amal Al-Garawi, Jose M. Lora, Ian Strickland, Bing Ma, Patty J. Lee, Robert J. Homer, Sankar Ghash, Anthony J. Coyle, and Jack A. Elias

TNF Pretreatment Interferes with Mitochondrial Apoptosis in the Mouse Liver by A20-Mediated Down-Regulation of Bax
Gabriele Sass, Noula Dattu Shembade, Florian Haiderl, Nicolas Lamoureux, Said Hashemolhosseini, Andrea Tannapfel, and Gisa Tiegs

Resolution of Der p1-Induced Allergic Airway Inflammation Is Dependent on CD4+CD25+Foxp3+ Regulatory Cells
Melanie D. Leech, Robert A. Benson, Annick de Vries, Paul M. Fitch, and Sarah E. M. Howie

FcεRI- and Fcγ Receptor-Mediated Production of Reactive Oxygen Species by Mast Cells Is Lipooxygenase- and Cyclooxygenase-Dependent and NADPH Oxidase-Independent
Emily J. Swindle, John W. Coleman, Frank R. DeLeo, and Dean D. Metcalfe

Catalytically Inactive Cyclooxygenase 2 and Absence of Prostaglandin E2 Biosynthesis in Murine Peritoneal Macrophages following In Vivo Phagocytosis of Heat-Killed *Mycobacterium bovis* Bacillus Calmette-Guérin
Makiko Yamashita, Tatsuro Shinohara, Shoutaro Tsubi, Quentin N. Myrvik, Akhito Nishiya, Ruth Ann Henriksen, and Yoshimi Shibata

Involvement of Vitronectin in Lipopolysaccharide-Induced Acute Lung Injury
Yuko Tsuruta, Young-Jun Park, Gene P. Siegal, Gang Liu, and Edward Abraham

Overexpression of Bcl-xL in B Cells Promotes Th1 Response and Exacerbates Collagen-Induced Arthritis
Biao Zheng, Ekaterina Marinova, Kirsten Switzer, Daniel Wanley, Hongsia He, Roy Bhekha-Escura, Timothy W. Behrens, and Shuhua Han

Mast Cells and Basophils Are Selectively Activated In Vitro and In Vivo through CD200R3 in an IgE-Independent Manner
Toshiyuki Koizumi, Kazuhide Obata, Kaori Mukai, Shingo Sato, Toshiyuki Takai, Yoshiyuki Minegishi, and Hajime Karasuwa

MAPK p38 Regulates Transcriptional Activity of NF-κB in Primary Human Astrocytes via Acetylation of p65
Ramendra N. Saha, Malabendu Jana, and Kalipada Pahan