179 (4)

This information is current as of July 26, 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
IN THIS ISSUE

BRIEF REVIEWS
   Babak Javid, Paul A. MacAry, and Paul J. Lehner

CUTTING EDGE
2041 Cutting Edge: Trans-Signaling via the Soluble IL-6R Abrogates the Induction of FoxP3 in Naive CD4⁺CD25⁻ T Cells
   Sabine Dominizetzi, Massimo C. Fantini, Clemens Neufert, Alexei Nikolaev, Peter R. Galle, Jürgen Scheller, Giovanni Monteleone, Stefan Rose-John, Markus F. Neurath, and Christoph Becker

2046 Cutting Edge: Primary B Lymphocytes Preferentially Expand Allogeneic FoxP3⁺ CD4 T Cells
   Xinjian Chen and Peter E. Jensen

2051 Cutting Edge: The ST2 Ligand IL-33 Potently Activates and Drives Maturation of Human Mast Cells
   Zoulfia Allakhverdi, Dirk E. Smith, Michael R. Comeau, and Guy Delespesse

2055 Cutting Edge: A Hypomorphic Mutation in IgH (CD79b) in a Patient with Immunodeficiency and a Leaky Defect in B Cell Development
   A. Kerry Dobbs, Tianyu Yang, Dana Farmer, Leo Kager, Ornella Parolini, and Mary Ellen Conley

2060 Cutting Edge: Vitamin D-Mediated Human Antimicrobial Activity against Mycobacterium tuberculosis Is Dependent on the Induction of Cathelicidin
   Erika L. Pearce and Hao Shen

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION
2065 A Pegylated Derivative of α-Galactosylceramide Exhibits Improved Biological Properties
   Thomas Ebensen, Claudia Link, Peggy Riese, Kai Schulze, Michael Morr, and Carlos A. Guzmán

2074 Generation of CD8 T Cell Memory Is Regulated by IL-12
   Xinjian Chen and Peter E. Jensen

2082 Altered B:9–23 Insulin, When Administered Intranasally with Cholera Toxin Adjuvant, Suppresses the Expression of Insulin Autoantibodies and Prevents Diabetes

On the cover: Model of cell penetrating STAT-6 binding peptide (STAT-6-IP) in which the HIV-TAT-derived PTD4 protein transduction domain was fused to seven amino acids surrounding the phosphotyrosine residue of STAT-6. The peptide phosphotyrosine residue (blue), predicted to bind to phosphorylated STAT-6, is oriented to the top. The model was generated using HyperChem 8.0 software. McCusker, C. T., Y. Wang, J. Shan, M. W. Kinyanjui, A. Villeneuve, H. Michael, and E. D. Fixman. 2007. Inhibition of experimental allergic airways disease by local application of a cell-penetrating dominant-negative STAT-6 peptide. J. Immunol. 179: 2556–2564.
2089 The Adaptor Molecule CIN85 Regulates Syk Tyrosine Kinase Level by Activating the Ubiquitin-Proteasome Degradation Pathway
Giovanna Peruzzi, Rosa Molfetta, Francesca Gasparrini, Laura Vian, Stefania Morrone, Mario Piccoli, Luigi Frati, Angela Santoni, and Rossella Paoletti

2097 NK Cell Lysis of HIV-1-Infected Autologous CD4 Primary T Cells: Requirement for IFN-Mediated NK Activation by Plasmacytoid Dendritic Cells
Costin Tomescu, Jihed Chehimi, Vernon C. Maino, and Luis J. Montaner

2105 Antigen, in the Presence of TGF-β, Induces Up-Regulation of FoxP3+ in CD4+ TCR Transgenic T Cells That Mediate Linked Suppression of CD8+ T Cell Responses
Judith A. Kapp, Kazuhito Honjo, Linda M. Kapp, Kelly Goldsmith, and R. Pat Bucy

2115 Role of Direct Effects of IFN-γ on T Cells in the Regulation of CD8 T Cell Homeostasis
Kavita Tewari, Yumi Nakayama, and M. Suresh

2126 In Vivo Antigen Stability Affects DNA Vaccine Immunogenicity
Adriaan D. Bins, Monika C. Wolkers, Marly D. van den Boom, John B. A. G. Haanen, and Ton N. M. Schumacher

2134 Enhancement of Human Melanoma Antigen Expression by IFN-β
Ian S. Dunn, Timothy J. Haggerty, Michihiro Kono, Paul J. Durda, David Butera, David B. Macdonald, Elizabeth M. Benson, Lenora B. Rose, and James T. Kurnick

2143 Chronic Immunodeficiency in Mice Lacking RasGRP1 Results in CD4 T Cell Immune Activation and Exhaustion
John J. Priatel, Xiaoxi Chen, Lauren A. Zeneuwicz, Hao Shen, Kenneth W. Harder, Marc S. Horwitz, and Hung-Sia Teh

2153 Induction of FoxP3+CD4+25+ Regulatory T Cells Following Hemopoietic Stem Cell Transplantation: Role of Bone Marrow-Derived Facilitating Cells
Kendra N. Taylor, Vivek R. Shinde-Patil, Evan Cohick, and Yolonda L. Colon

2163 Age-Dependent TCR Revision Mediated by Interaction between αβ TCR and Self-Antigens
Mitsuyo Takase, Edith M. Kanagawa, and Osami Kanagawa

2170 Selective Expansion of Foxp3-Positive Regulatory T Cells and Immunosuppression by Suppressors of Cytokine Signaling 3-Deficient Dendritic Cells
Yumiko Matsumura, Takashi Kobayashi, Kenji Ichiyama, Ryoko Yoshida, Masayuki Hashimoto, Tomohito Takimoto, Kentaro Tanaka, Takatoshi Chinen, Takashi Shibata, Tony Wyss-Coray, Katsuki Sato, and Akihiko Yoshimura

2180 Acute Rejection of Allografted CTL-Susceptible Leukemia Cells from Perforin/Fas Ligand Double-Deficient Mice
Hayahito Nomi, Junko Tashiro-Yamaji, Yumiko Yamamoto, Sayako Miura-Takeda, Masako Miyahiro-Higashino, Takashi Takashiba, Haruhito Azuma, Haruhiko Ueda, Yoji Katsuoka, Takahiro Kubota, and Ryotaro Yoshida

2187 The Context of Epitope Presentation Can Influence Functional Quality of Recalled Influenza A Virus-Specific Memory CD8+ T Cells
E. Bridie Day, Weiguang Zeng, Peter C. Doherty, David C. Jackson, Katherine Kedzierska, and Stephen J. Turner

2195 OX40 Costimulation Promotes Persistence of Cytomegalovirus-Specific CD8 T Cells: A CD4-Dependent Mechanism
Ian R. Humphreys, Andrea Loewendorf, Carl de Trez, Kirsten Schneider, Chris A. Benedict, Michael W. Munks, Carl F. Ware, and Michael Croft

2203 CD134 Costimulation Couples the CD137 Pathway to Induce Production of Supereffector CD8 T Cells That Become IL-7 Dependent

2215 NKT Cell-Derived Urokinase-Type Plasminogen Activator Promotes Peripheral Tolerance Associated with Eye
Koh-Hei Sonoda, Takahiko Nakamura, Howard A. Young, David Hart, Peter Carmeliet, and Joan Stein-Streilein

2223 Phospholipase Cβ Is Critical for T Cell Chemotaxis
Tami L. Bach, Qing-Min Chen, Wesley T. Kerr, Yanfeng Wang, Lurong Lian, John K. Choi, Dianqing Wu, Marcelo G. Kazzaniyet, Gary A. Koretsky, Sally Zigmond, and Charles S. Abrams
Multiple Constraints at the Level of TCRα Rearrangement Impact Vα14i NKT Cell Development
Elizabeth Hager, Abbas Hawwari, Jennifer L. Matsuda, Michael S. Krangel, and Laurent Gapin

MHC Class II+ Exosomes in Plasma Suppress Inflammation in an Antigen-Specific and Fas Ligand/Fas-Dependent Manner
Seon Hee Kim, Nicole R. Bianco, William J. Shufesky, Adrian E. Morelli, and Paul D. Robbins

Effective Treatment of Inflammatory Disease Models with Exosomes Derived from Dendritic Cells Genetically Modified to Express IL-4
Seon Hee Kim, Nicole R. Bianco, William J. Shufesky, Adrian E. Morelli, and Paul D. Robbins

TCR Affinity Promotes CD8+ T Cell Expansion by Regulating Survival
Mirja Hommel and Philip D. Hodgkin

Class IA Phosphoinositide 3-Kinase Modulates Basal Lymphocyte Motility in the Lymph Node
Melanie P. Mathieu, Jonathan A. Deane, Ian Parker, David A. Fruman, and Michael D. Cahalan

The Recirculating B Cell Pool Contains Two Functionally Distinct, Long-Lived, Posttransitional, Follicular B Cell Populations
Annaiah Cariappa, Cristian Boboila, Stewart T. Moran, Haoyuan Liu, Hai Ning Shi, and Shiv Pillai

TACI Is Required for Efficient Plasma Cell Differentiation in Response to T-Independent Type 2 Antigens
George T. Mantchev, Catarina S. Cortesão, Michelle Rebrowski, Marilia Cascalho, and Richard J. Bram

CCR5 Blockade Modulates Inflammation and Alloimmunity in Primates

A Single Early Activation of Invariant NK T Cells Confers Long-Term Protection against Collagen-Induced Arthritis in a Ligand-Specific Manner

Molecular and Cellular Requirements for Enhanced Antigen Cross-Presentation to CD8 Cytotoxic T Lymphocytes
Satoshi Oizumi, Natasa Srbo, Savita Pathwa, Vadim Deyev, and Eckhard R. Podack

Development of Sjögren’s Syndrome in Nonobese Diabetic-Derived Autoimmune-Prone C57BL/6.NOD-Aec1Aec2 Mice Is Dependent on Complement Component-3
Cuong Q. Nguyen, Hyuna Kim, Janet G. Cornelius, and Ammon B. Peck

Up-Regulation of Bcl-2 through ERK Phosphorylation Is Associated with Human Macrophage Survival in an Estrogen Microenvironment
Manikandan Subramanian and Chandrima Shaha

CTLs Contain and Use Intracellular Stores of FasL Distinct from Cytolytic Granules
Jin-Shu He and Hasne L. Ostergaard

Fimbrial Proteins of Porphyromonas gingivalis Mediate In Vivo Virulence and Exploit TLR2 and Complement Receptor 3 to Persist in Macrophages
Min Wang, Muhammad-Ali K. Shakhatreh, Deanna James, Shuang Liang, So-ichiro Nishiyama, Fuminobu Yoshimura, Donald R. Demuth, and George Hajishengallis

Complement Receptor 3 Blockade Promotes IL-12-Mediated Clearance of Porphyromonas gingivalis and Negates Its Virulence In Vivo
George Hajishengallis, Muhammad-Ali K. Shakhatreh, Min Wang, and Shuang Liang

In Vivo Persistence of Codominant Human CD8+ T Cell Clonotypes Is Not Limited by Replicative Senescence or Functional Alteration
Laurent Derre, Marc Bruyninx, Petra Baumgaertner, Estelle Devoeure, Patricia Corthey, Cédric Touvrey, Yolanda D. Mahnke, Hanspeter Pircher, Verena Voelter, Pedro Romero, Daniel E. Speiser, and Nathalie Rufer
MOLECULAR AND STRUCTURAL IMMUNOLOGY

2380 O-Glycosylated Human MUC1 Repeats Are Processed In Vitro by Immunoproteasomes
Tanja Ninkovic and Franz-Georg Hanisch

2389 IL-10 Is Excluded from the Functional Cytokine Memory of Human CD4+ Memory T Lymphocytes
Jun Dong, Claudia Ivacu, Hyun-Dong Chang, Peihua Wu, Roberta Angeli, Laura Maggi, Florian Eckhardt, Lars Tylkocinski, Carolina Haefliger, Beate Möjes, Jochen Sieper, Andreas Radbruch, Francesco Annunziato, and Andreas Thiel

2397 Signal-Transducing Adaptor Protein-2 Regulates Integrin-Mediated T Cell Adhesion through Protein Degradation of Focal Adhesion Kinase
Yuichi Sekine, Satoshi Tsuji, Osamu Ikeda, Kenji Sugiyama, Kenji Oritani, Kazuya Shimoda, Ryuuta Muramoto, Norihiko Ohbayashi, Akibiko Yoshimura, and Tadashi Matsuda

2408 Human Anti-CXCR4 Antibodies Undergo V	extsubscript{H} Replacement, Exhibit Functional V-Region Sulfation, and Define CXCR4 Antigenic Heterogeneity
Chen Xu, Jianhua Sui, Hong Tan, Quan Zhu, and Wayne A. Marasco

IMMUNOGENETICS

2419 Sequence and Characterization of the Ig Heavy Chain Constant and Partial Variable Region of the Mouse Strain 129S1
Ida Retter, Christophe Chevillard, Maren Scharfe, Ansgar Conrad, Martin Hafner, Tszchong-Hun Im, Monika Ludewig, Gabriele Nordiek, Simone Severitt, Stephanie Thies, America Maubar, Helmut Bliöcker, Werner Müllor, and Roy Riblet

2428 BXSB/long-lived Is a Recombinant Inbred Strain Containing Powerful Disease Suppressor Loci

HOST DEFENSE

2435 Despite Increased CD4+ Foxp3+ Cells within the Infection Site, BALB/c IL-4 Receptor-Deficient Mice Reveal CD4+ Foxp3-Negative T Cells as a Source of IL-10 in Leishmania major Susceptibility
Hisashi Nagase, Kathryn M. Jones, Charles F. Anderson, and Nancy Noben-Trauth

2445 Filarial Parasites Induce NK Cell Activation, Type 1 and Type 2 Cytokine Secretion, and Subsequent Apoptotic Cell Death
Subash Babu, Carla P. Blauvelt, and Thomas B. Nutman

2457 A Role for IFN-γ from Antigen-Specific CD8+ T Cells in Protective Immunity to Listeria monocytogenes
Kelly A. N. Messingham, Vladimir P. Badovinac, Ali Jabbari, and John T. Harty

2467 Icshp1/IRF-8 Is Required for Innate and Adaptive Immune Responses against Intracellular Pathogens
Karine Turcotte, Suann Gauthier, Danielle Malo, Mifong Tam, Mary M. Stevenson, and Philippe Gros

2477 A Novel Role for the Bactericidal/Permeability Increasing Protein in Interactions of Gram-Negative Bacterial Outer Membrane Blebs with Dendritic Cells
Hendrik Schultz, Janet Hume, De Sheng Zhang, Theresa L. Gioannini, and Jerrold P. Weiss

2485 IFN-γ-Producing Dendritic Cells Are Important for Priming of Gut Intraepithelial Lymphocyte Response Against Intracellular Parasitic Infection
Magali M. Moretto, Louis M. Weiss, Crescent L. Combe, and Imtiaz A. Khan

2493 Lymphoma Immunotherapy with CpG Oligodeoxynucleotides Requires TLR9 Either in the Host or in the Tumor Itself
Jiali Li, Wensu Song, Debra K. Czerwinski, Bindu Varghese, Satoshi Uematsu, Shizuo Akira, Arthur M. Krieg, and Ronald Levy

2501 Fusobacterium nucleatum Induces Fetal Death in Mice via Stimulation of TLR4-Mediated Placental Inflammatory Response
Hongqi Liu, Raymond W. Redline, and Yiping W. Han
Mycobacterium tuberculosis Infects Dendritic Cells with High Frequency and Impairs Their Function In Vivo
Andrea J. Wolf, Beth Linas, Giraldina J. Treevejo-Nuñez, Eleanor Kincaid, Toshiki Tamura, Kiyoshi Takatsu, and Joel D. Ernst

C-Terminal Tail Phosphorylation of N-Formyl Peptide Receptor: Differential Recognition of Two Neutrophil Chemoattractant Receptors by Monoclonal Antibodies NFPR1 and NFPR2

The Cellular Immune Response to Mycobacterium tuberculosis Infection in the Guinea Pig
Diane Ordway, Gopinath Palaniyami, Marcela Henao-Tamayo, Erin E. Smith, Crystal Shanley, Ian M. Orme, and Randall J. Bauaraba

Porphyromonas gingivalis Selectively Up-Regulates the HIV-1 Coreceptor CCR5 in Oral Keratinocytes
Rodrigo A. Giacaman, Angela H. Nobbi, Karen F. Ross, and Mark C. Herzberg

IL-1 Receptor Accessory Protein and ST2 Comprise the IL-33 Receptor Complex
Alissa A. Chackerian, Elizabeth R. Oldham, Erin E. Murphy, Jochen Schmitz, Stefan Pflanz, and Robert A. Kastelain

Inhibition of Experimental Allergic Airways Disease by Local Application of a Cell-Penetrating Dominant-Negative STAT-6 Peptide
Christine T. McCusker, Yafa Wang, Jichuan Shan, Margaret W. Kinyanjui, Annie Villeneuve, Husheem Michael, and Elizabeth D. Fixman

Induction and Function of Lipocalin Prostaglandin D Synthase in Host Immunity
Myungsoo Joo, Minjae Kwon, Ruxana T. Sadikos, Philip J. Kingseley, Lawrence J. Marnett, Timothy S. Blackwell, R. Stokes Peebles, Jr., Yoshihiro Urade, and John W. Christman

Human Blood-Brain Barrier Disruption by Retroviral-Infected Lymphocytes: Role of Myosin Light Chain Kinase in Endothelial Tight-Junction Disorganization
Philippe Vicente Afnoso, Simona Ozden, Marie-Christine Prevost, Christine Schmitz, Danielle Seilhean, Babette Weksler, Pierre-Olivier Couraud, Antoine Gesain, Ignacio Andres Romero, and Pierre-Emmanuel Cecchaldi

Platelet Factor 4 (CXC Chemokine Ligand 4) Differentially Regulates Respiratory Burst, Survival, and Cytokine Expression of Human Monocytes by Using Distinct Signaling Pathways
Brigitte Kasper, Ernst Brands, Sven Brandau, and Frank Petersen

Cellular and Humoral Autoreactivity in Idiopathic Pulmonary Fibrosis
Carol A. Feghali-Bostwick, Christopher G. Tsai, Vincent G. Valentine, Stephen Kantrou, Michael W. Stoner, Joseph M. Pilewski, Aneal Gadgil, M. Patricia George, Kevin F. Gibson, Augustine M. K. Choi, Nafisah Kaminski, Yingze Zhang, and Steven R. Duncan

Properdin Can Initiate Complement Activation by Binding Specific Target Surfaces and Providing a Platform for De Novo Convertase Assembly
Dirk Spitzer, Lynne M. Mitchell, John P. Atkinson, and Dennis E. Hourcade

Unchecked CD70 Expression on T Cells Lowers Threshold for T Cell Activation in Rheumatoid Arthritis
Won-Woo Lee, Zhizhang Yang, Guangjin Li, Cornelia M. Weyand, and Jörg J. Goronzy

Fully MHC-Disparate Mixed Hemopoietic Chimeras Show Specific Defects in the Control of Chronic Viral Infections
Brent H. Koehn, Matthew A. Williams, Keshawna Borom, Shivasprakash Gangappa, Thomas C. Pearson, Rafi Ahmed, and Christian P. Larsen

Functional T Cell Responses to Tumor Antigens in Breast Cancer Patients Have a Distinct Phenotype and Cytokine Signature
Margaret Inokuma, Corazon dela Rosa, Charles Schmitt, Perry Haaland, Janet Siebert, Douglas Perry, Mengxiang Tang, Maria A. Suni, Smita A. Ghanevar, Daiva Gladding, John F. Dunne, Vernon C. Maino, Mary L. Disis, and Holden T. Maecker
Neutrophils as a Novel Source of Eosinophil Cationic Protein in IgE-Mediated Processes
Javier Monteserín, Antonio Vega, Pedro Chacón, M. Jesús Camacho, Rajaa El Bekay, Juan A. Asturias, Alberto Martínez, Pedro Guardia, Ramón Pérez-Caro, and José Conde

Baseline Viral Load and Immune Activation Determine the Extent of Reconstitution of Innate Immune Effectors in HIV-1-Infected Subjects Undergoing Antiretroviral Treatment
Jihed Chehimi, Livio Azzoni, Matthew Farabaugh, Shenoda A. Creer, Costin Tomescu, Aidan Hancock, Agnes Mackiewicz, Lara D'Alessandro, Smita Ghanekar, Andrea S. Foulkes, Karam Mounzer, Jay Kostman, and Luis J. Montaner

Induction of Primary Biliary Cirrhosis in Guinea Pigs following Chemical Xenobiotic Immunization
Patrick S. C. Leung, Ogzi Park, Koichi Tsuneyama, Mark J. Kurth, Kit S. Lam, Aftab A. Ansari, Ross L. Coppel, and M. Eric Gershwin

Corrections

Author Index

AAI Membership Application

AAI Trainee Membership Application