190 (11)

J Immunol 2013; 190:5339-5902; ;
http://www.jimmunol.org/content/190/11

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
LETTERS TO THE EDITOR

Comment on “Myeloid-Derived Suppressor Cells Suppress Antitumor Immune Responses through IDO Expression and Correlate with Lymph Node Metastasis in Patients with Breast Cancer”
Mads Hald Andersen

Response to Comment on “Myeloid-Derived Suppressor Cells Suppress Antitumor Immune Responses through IDO Expression and Correlate with Lymph Node Metastasis in Patients with Breast Cancer”
Jinpu Yu, Yue Wang, Fang Yan, Hui Li, and Xiubao Ren

PILLARS OF IMMUNOLOGY

Opening the Frontier of the T Cell Surface: Schlossman and Goldstein
Michael L. Dustin

Ellis L. Reinherz, Patrick C. Kang, Gideon Goldstein, and Stuart F. Schlossman

Patrick C. Kang, Gideon Goldstein, Ellis L. Reinherz, and Stuart F. Schlossman

BRIEF REVIEWS

NK Cells in Central Nervous System Disorders
Aurélie Poli, Justyna Kmiecik, Olivia Domingues, François Hentges, Mathieu Bléry, Martha Chekenya, José Boucraut, and Jacques Zimmer

On the cover: H&E-stained sagittal section of a hind paw from a wild-type BALB/c mouse after immunization with human aggregan G1-domain protein in adjuvant. The authors show that mice immunized by different routes, i.p. versus s.c., develop a similar histological appearance of joint inflammation despite different requirements for Th1 and Th17 cytokines. Rodeghero, R., Y. Cao, S. A. Olalekan, Y. Iwakua, T. T. Glant, and A. Finnegan. 2013. Location of CD4+ T cell priming regulates the differentiation of Th1 and Th17 cells and their contribution to arthritis. J. Immunol. 190: 5423–5435.
ANTIGEN RECOGNITION AND RESPONSES

5363 Age-Associated Increase of Low-Avidity Cytomegalovirus-Specific CD8+ T Cells That Re-Express CD45RA
Stephen J. Griffiths, Natalie E. Riddell, Joanne Masters, Valentina Libri, Sian H. Henson, Anne Wertheimer, 
Diana Wallace, Stuart Sims, Laura Rivino, Anis Larbi, David M. Kemeny, Janko Nikolich-Zugich, Florian Kern, 
Paul Kleneman, Vincent C. Emery, and Arne N. Akbar

AUTOIMMUNITY

5373 Yersinia enterocolitica Provides the Link between Thyroid-Stimulating Antibodies and Their Germline 
Counterparts in Graves’ Disease
Chantal E. Hargreaves, Marco Grasso, Christiane S. Hampe, Anna Stenkova, Steve Atkinson, George W. P. Joshua, 
Brendan W. Wren, Ashley M. Buckle, Deborah Dunn-Walters, and J. Paul Banga

5382 Engineered Regulatory T Cells Coexpressing MHC Class II:Peptide Complexes Are Efficient Inhibitors of 
Autoimmune T Cell Function and Prevent the Development of Autoimmune Arthritis
Zhaohui Qian, Kary A. Latham, Karen B. Whittington, David C. Miller, David D. Brand, and Edward F. Rosloniec

5392 γδ T Cells Are Essential Effectors of Type 1 Diabetes in the Nonobese Diabetic Mouse Model
Janet M. M. Markle, Steve Mortin-Toth, Andrea S. L. Wong, Liping Geng, Adrian Hayday, and Jayne S. Danska

5402 Blockade of Programmed Death-1 in Young (New Zealand Black × New Zealand White)F1 Mice Promotes the 
Suppressive Capacity of CD4+ Regulatory T Cells Protecting from Lupus-like Disease
Maida Wong, Antonio La Cava, and Bevra H. Hahn

5411 Autoantibody Induction by DNA-Containing Immune Complexes Requires HMGB1 with the 
TLR2/MicroRNA-155 Pathway
Zhenke Wen, Lin Xu, Xi Chen, Wei Xu, Zhihan Yin, Xiaoming Gao, and Sidong Xiong

5423 Location of CD4+ T Cell Priming Regulates the Differentiation of Th1 and Th17 Cells and Their 
Contribution to Arthritis
Rachel Rodger, Yanxia Cao, Susan A. Olalekan, Yoichiro Ikawaka, Tibor T. Glant, and Alison Finnegan

5436 Cd72c Is a Modifier Gene that Regulates Faslpr-Induced Autoimmune Disease
Miduo Xu, Rong Hou, Aya Sato-Hayashizaki, Rongyong Man, Chenghua Zhu, Chisato Hirose, 
Takahiro Adachi, and Takeshi Tsubata

CLINICAL AND HUMAN IMMUNOLOGY

5446 Reversal of Global CD4+ Subset Dysfunction Is Associated with Spontaneous Clinical Resolution of 
Pulmonary Sarcoidosis
Kyra A. Oswald-Richter, Bradley W. Richmond, Nicole A. Braun, Joan Isom, Susamma Abraham, Thyeice R. Taylor, 
John M. Drake, Daniel A. Culver, David S. Wilkes, and Wonder P. Drake

IMMUNE REGULATION

5454 Antigen-Stimulated CD4 T Cell Expansion Can Be Limited by Their Grazing of Peptide–MHC 
Complexes
Rob J. De Boer and Alan S. Perelson

5459 Estradiol Promotes Functional Responses in Inflammatory and Steady-State Dendritic Cells through 
Differential Requirement for Activation Function-1 of Estrogen Receptor α
Cyril Seillet, Nelly Rouquié, Eliane Foulon, Victoire Douin-Echinard, Andrée Kruyt, Pierre Chambon, 
Jean-François Arnal, Jean-Charles Guéry, and Sophie Laffont

5471 Altered Immunity and Dendritic Cell Activity in the Periphery of Mice after Long-Term Engraftment with 
Bone Marrow from Ultraviolet-Irradiated Mice
Royce L. X. Ng, Naomi M. Scott, Deborah H. Strickland, Shelley Gorman, Michele A. Grimbaldeston, Mary Norval, 
Jason Waithman, and Prue H. Hart

5485 IL-2–Independent and TNF-α–Dependent Expansion of Vβ5+ Natural Regulatory T Cells during 
Retrovirus Infection
Lara Myers, Jara J. Joedicke, Aaron B. Carmody, Ronald J. Messer, George Kassiotis, Jaquelin P. Dudley, Ulf Dittmer, 
and Kim J. Hasenkrug
5496 TRPC6 Regulates CXCR2-Mediated Chemotaxis of Murine Neutrophils
Otto Lindemann, Daniel Umlauf, Svetlana Frank, Sandra Schimmelpfennig, Jessica Bertrand, Thomas Pap, Peter J. Hanley, Anke Fabian, Alexander Dietrich, and Albrecht Schwab

5506 Regulation of the Expression of GARP/Latent TGF-β1 Complexes on Mouse T Cells and Their Role in Regulatory T Cell and Th17 Differentiation
Justin P. Edwards, Hodaka Fujii, Angela X. Zhou, John Creemers, Derya Unutmaz, and Ethan M. Shevach

5516 OX40L/Jagged1 Cosignaling by GM-CSF–Induced Bone Marrow-Derived Dendritic Cells Is Required for the Expansion of Functional Regulatory T Cells
Anupama Gopisetty, Palash Bhattacharya, Christine Haddad, Joseph C. Bruno, Jr., Chenthamarakshan Vasu, Lucio Miele, and Bellur S. Prabhakar

5526 Galectin 1 Modulates Plasma Cell Homeostasis and Regulates the Humoral Immune Response
Adrienne Anginot, Marion Espeli, Lionel Chasson, Stéphane J. C. Mancini, and Claudine Schiff

5534 Mast Cell–deficient KitW-sh “Sash” Mutant Mice Display Aberrant Myelopoiesis Leading to the Accumulation of Splenocytes That Act as Myeloid-Derived Suppressor Cells

5545 SWAP-70 Restricts Spontaneous Maturation of Dendritic Cells
Carlos Ocaña-Marguer, Anne Götz, Christine Wahren, and Rolf Jessberger

5559 Regulation of V_{H} Replacement by B Cell Receptor–Mediated Signaling in Human Immature B Cells
Jing Liu, Miles D. Lange, Sang Yong Hong, Wenxin Xie, Kerui Xu, Lin Huang, Yangsheng Yu, Götz R. A. Ehrhardt, Michael Zemlin, Peter D. Burrows, Kathong Su, Robert H. Carter, and Zhixin Zhang

5567 The Restricted D_{H} Gene Reading Frame Usage in the Expressed Human Antibody Repertoire Is Selected Based upon its Amino Acid Content
Jennifer Benichou, Jacob Glanville, Eline T. Luning Prak, Roy Azran, Tracy C. Kuo, Jaume Pons, Cindy Dermaarais, Lea Tsaban, and Yoram Louzoun

5578 Genome-wide Analysis of Immune System Genes by Expressed Sequence Tag Profiling
Cosmas C. Giallourakis, Yair Benita, Benoit Molinie, Zhifang Cao, Orion Despo, Henry E. Pratt, Lawrence R. Zakerberg, Mark J. Daly, John D. Rioux, and Rami Abou Xavier

5588 Targeting of Antigens to B Lymphocytes via CD19 as a Means for Tumor Vaccine Development
Yunfeng Ma, Dong Xiang, Jinwen Sun, Chuanlin Ding, Min Liu, Xiaoling Hu, Guoxin Li, Goetz Kloecker, Huang-ge Zhang, and Jun Yan

5600 Catecholamine-Induced β2-Adrenergic Receptor Activation Mediates Desensitization of Gastric Cancer Cells to Trastuzumab by Upregulating MUC4 Expression
Ming Shi, Zhengyan Yang, Meiru Hu, Dan Liu, Yabin Hu, Lu Qian, Wei Zhang, Hongyu Chen, Liang Guo, Ming Yu, Lun Song, Yuanfang Ma, and Ning Guo

5609 Invariant NKT Cells Induce Plasmacytoid Dendritic Cell (DC) Cross-Talk with Conventional DCs for Efficient Memory CD8+ T Cell Induction

5620 Programmed Death Receptor-1/Programmed Death Receptor Ligand-1 Blockade after Transient Lymphodepletion To Treat Myeloma
Tyce J. Kearl, Weiqing Jing, Jill A. Gerishan, and Bryon D. Johnson
Aspergillus fumigatus–Induced IL-22 Is Not Restricted to a Specific Th Cell Subset and Is Dependent on Complement Receptor 3
Mark S. Gresnigt, Katharina L. Becker, Sanne P. Smeekens, Cor W. M. Jacobs, Leo A. B. Joosten, Jos W. M. van der Meer, Mihai G. Netea, and Frank L. van de Veerdonk

The Scavenger Receptor CD36 Downmodulates the Early Inflammatory Response while Enhancing Bacterial Phagocytosis during Pneumococcal Pneumonia
Omar Sharif, Ulrich Matt, Simona Saluzzo, Karin Lakovits, Isabella Haslinger, Tanja Furtner, Bianca Doninger, and Sylvia Knapp

Mammalian Target of Rapamycin Regulates IL-10 and Resistance to Pseudomonas aeruginosa Corneal Infection
Megan E. B. Foldenauer, Sharon A. McClellan, Elizabeth A. Berger, and Linda D. Hazlett

Human FcγRII Cytoplasmic Domains Differentially Influence Antibody-Mediated Dengue Virus Infection
Kohporn Boonnak, Bonnie M. Slike, Gina C. Donofrio, and Mary A. Marovich

IL-33 Induces Nuocytes and Modulates Liver Injury in Viral Hepatitis
Yuejin Liang, Zuliang Jie, Lifei Hou, Renan Aguilar-Valenzuela, David Vu, Lynn Soong, and Jiaren Sun

Loss of TLR2 Worsens Spontaneous Colitis in MDR1A Deficiency through Commensally Induced Pyroptosis
Birgit Ey, Annette Eyking, Magdalena Klepak, Nita H. Salzman, Joachim R. Göhert, Michael Rünzi, Kurt W. Schmid, Guido Gerken, Daniel K. Podolsky, and Elke Cario

Anti-Inflammatory Mechanisms of the Annexin A1 Protein and Its Mimetic Peptide Ac2-26 in Models of Ocular Inflammation In Vivo and In Vitro

Critical Role of AZI2 in GM-CSF–Induced Dendritic Cell Differentiation
Masahiro Fukasaka, Daisuke Ori, Tatsukata Kawagoe, Satoshi Uematsu, Kenta Maruyama, Toshihiko Okazaki, Tatsuya Kozaki, Tomoko Imamura, Syu-shou Mino, Takashi Mato, and Osamu Takeuchi

Rational Engineering of a Minimized Immune Inhibitor with Unique Triple-Targeting Properties
Christoph Q. Schmidt, Hongjun Bai, Zhubin Lin, Antonio M. Ristiana, Paul N. Barlow, Daniel Ricklin, and John D. Lambris

Cord Factor and Peptidoglycan Recapitulate the Th17-Promoting Adjuvant Activity of Mycobacteria through Mincle/CARD9 Signaling and the Inflammasome
Kevin Shenderov, Daniel L. Barber, Karin D. Mayer-Barber, Sudagar S. Garcha, Dragana Jankovic, Carl G. Feng, Sandy Oland, Sara Hiyen, Par Caspar, Sho Yamasaki, Xin Lin, Jenny P. -Y. Ting, Giorgio Trinchieri, Gurvinder S. Besra, Vincenzo Cerundolo, and Alan Sher

TGF-β1 Limits the Onset of Innate Lung Inflammation by Promoting Mast Cell–Derived IL-6
Kirthana Ganeshan, Laura K. Johnston, and Paul J. Bryce

Human Fc Receptor–Like 5 Binds Intact IgG via Mechanisms Distinct from Those of Fc Receptors
Andrea Franco, Bazarragchaa Damdiniuren, Tomoko Iie, Jessica Dement-Brown, Hufu Fang Li, Satoshi Nagata, and Mate Tolnay

Different GATA Factors Dictate CCR3 Transcription in Allergic Inflammatory Cells in a Cell Type–Specific Manner
Su-Kang Kong, Byung Soon Kim, Tae Gi Uhm, Wonyong Lee, Gap Ryol Lee, Choong-Sik Park, Chul-Hoon Lee, and Il Yup Chung
Hierarchy of CD4 T Cell Epitopes of the ANRS Lipo5 Synthetic Vaccine Relies on the Frequencies of Pre-Existing Peptide-Specific T Cells in Healthy Donors
Florence Anne Castelli, Natasha Szery, Alexei Olivain, Nicoletta Casartelli, Caroline Grygar, Aurélie Schneider, Aurore Bese, Yves Lery, Olivier Schwartz, and Bernard Maillère

Ly331 of T-box Is Crucial for Modulation of Protein Stability, DNA Binding, and Threonine Phosphorylation of T-box
Eun Jung Jang, Hye Ryoon Park, Jeong-Ho Hong, and Eun Sook Hwang

Igs Expressed by Chronic Lymphocytic Leukemia B Cells Show Limited Binding-Site Structure Variability
Paolo Marcatili, Fabio Ghiozzi, Claudia Tenca, Anna Chatlyn, Andrea N. Mazzarello, Xiao-Jie Yan, Monica Colombo, Emilia Albesiano, Davide Bagnara, Giovanna Catriona, Fortunato Morabito, Silvia Bruno, Manlio Ferrarini, Nicholas Chiorazzi, Anna Tramontano, and Franco Fais

MUCOSAL IMMUNOLOGY

SerpinB2 Is Critical to Th2 Immunity against Enteric Nematode Infection
Aiping Zhao, Zhonghan Yang, Rex Sun, Viktoriya Grinchuk, Sarah Netzel-Arnett, Ian E. Anglin, Kathryn Hodge Driesbaugh, Luigi Notari, Jennifer A. Bohl, Kathleen B. Madden, Joseph F. Urban, Jr., Toni M. Antalis, and Terez Shea-Donohue

Homeostatic Proliferation of Naive CD4+ T Cells in Mesenteric Lymph Nodes Generates Gut-Tropic Th17 Cells
Takeshi Kawabe, Shu-Ian Sun, Tsuyoshi Fujita, Satoshi Yamaki, Atsuko Asao, Takeshi Takahashi, Takanori So, and Naoto Ishii

Role of IL-22- and TNF-α—Producing Th22 Cells in Uveitis Patients with Behçet’s Disease
Sunao Sugita, Yuko Kawanoe, Ayano Imai, Tatsushi Kawaguchi, Shintaro Horie, Hiroshi Keino, Masayo Takahashi, and Manabu Mochizuki

TRANSPLANTATION

Prostaglandin E2—Induced Changes in Alveolar Macrophage Scavenger Receptor Profiles Differentially Alter Phagocytosis of Pseudomonas aeruginosa and Staphylococcus aureus Post-Bone Marrow Transplant
Racquel Domingo-Gonzalez, Samuel Katz, C. Henrique Serezani, Thomas A. Moore, Ann Marie LeVine, and Bethany B. Moore

T Cell–Specific Notch Inhibition Blocks Graft-versus-Host Disease by Inducing a Hyporesponsive Program in Alloreactive CD4+ and CD8+ T Cells
Ashley R. Sandy, Jooho Chung, Tomomi Toubai, Gloria T. Shan, Ivy T. Tran, Ann Friedman, Timothy S. Blackwell, Pavan Reddy, Philip D. King, and Ivan Maillard

Copresentation of Intact and Processed MHC Alloantigen by Recipient Dendritic Cells Enables Delivery of Linked Help to Alloreactive CD8 T Cells by Indirect-Pathway CD4 T Cells

TUMOR IMMUNOLOGY

Induction of Protective Antitumor Immunity through Attenuation of ERAAP Function
Edward James, Ian Bailey, Gesa Sugiyarto, and Tim Elliott

Multiplex B Cell Characterization in Blood, Lymph Nodes, and Tumors from Patients with Malignancies
A. Ali Zirakzadeh, Per Martin, Amir Sherif, and Ola Winqvist

Imprinting of Lymphocytes with Melanoma Antigens Acquired by Trogocytosis Facilitates Identification of Tumor-Reactive T Cells
Galit Eisenberg, Ronny Uzana, Aviad Pato, Shoshana Frankenburg, Sharon Merims, Eitan Yefenof, Soldano Ferrone, Tamar Peretz, Arthur Machlenkin, and Michal Lotem
Local Administration of TLR Ligands Rescues the Function of Tumor-Infiltrating CD8 T Cells and Enhances the Antitumor Effect of Lentivector Immunization
Haiyan Xiao, Yibing Peng, Yuan Hong, Lei Huang, Z. Sheng Guo, David L. Bartlett, Ning Fu, David H. Munn, Andrew Mellor, and Yukai He

Radiation-Induced Equilibrium Is a Balance between Tumor Cell Proliferation and T Cell–Mediated Killing
Hua Liang, Liufu Deng, Steven Chmura, Byron Burnette, Nicole Liadis, Thomas Darga, Michael A. Beckett, Mark W. Lingen, MaryEllyn Witt, Ralph R. Weichselbaum, and Yang-Xin Fu

IL-6 Cooperates with G-CSF To Induce Protumor Function of Neutrophils in Bone Marrow by Enhancing STAT3 Activation
Bin Yan, Jing-Jing Wei, Ye Yuan, Rui Sun, Dong Li, Jing Luo, Sheng-Jun Liao, Yuan-Hong Zhou, Yu Shu, Qi Wang, Gui-Mei Zhang, and Zuo-Hua Feng

Increased Th17 Cells in the Tumor Microenvironment Is Mediated by IL-23 via Tumor-Secreted Prostaglandin E₂
Xuesong Qian, Ling Gu, Huan Ning, Yanping Zhang, Eddy C. Hsueh, Mingui Fu, Xiaoyu Hu, Lin Wei, Daniel F. Hoft, and Jianguo Liu

AUTHOR INDEX