This information is current as of April 14, 2017.

189 (5)

J Immunol 2012; 189:2067-2682;
http://www.jimmunol.org/content/189/5

---

**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

---

*The Journal of Immunology* is published twice each month by
The American Association of Immunologists, Inc.,
1451 Rockville Pike, Suite 650, Rockville, MD 20852
All rights reserved.
Print ISSN: 0022-1767 Online ISSN: 1550-6606.
IN THIS ISSUE

PILLARS OF IMMUNOLOGY

2067 Cytokine Mimicry with an Immunologic Reformation: The Discovery of a Decade
Kenneth M. Murphy

2072 Pillars Article: Homology of Cytokine Synthesis Inhibitory Factor (IL-10) to the Epstein-Barr Virus Gene BCRFI. Science. 1990. 248: 1230–1234
Kevin W. Moore, Paulo Vieira, David F. Fiorentino, Mary L. Trounstine, Tariq A. Khan, and Timothy R. Mosemann

CUTTING EDGE

2079 Cutting Edge: Suppression of GM-CSF Expression in Murine and Human T Cells by IL-27
Andrew Young, Eimiear Linehan, Emily Hams, Aisling C. O’Hara Hall, Angela McClurg, James A. Johnston, Christopher A. Hunter, Padraig G. Fallon, and Denise C. Fitzgerald

2084 Cutting Edge: Influence of Tmevpg1, a Long Intergenic Noncoding RNA, on the Expression of Ifng by Th1 Cells
Sarah P. Collier, Patrick L. Collins, Christopher L. Williams, Mark R. Boothby, and Thomas M. Aune

2089 Cutting Edge: IL-10–Mediated Tristetraprolin Induction Is Part of a Feedback Loop That Controls Macrophage STAT3 Activation and Cytokine Production
Anthony Gaba, Sergei I. Grivennikov, Mahn Vu Do, Deborah J. Stumpo, Perry J. Blachshear, and Michael Karin

2094 Cutting Edge: Lymphoid Tissue Inducer Cells Maintain Memory CD4 T Cells within Secondary Lymphoid Tissue
David R. Withers, Fabrina M. Gaspal, Emma C. Mackley, Clare L. Marriott, Ewan A. Ross, Guillaume E. Desanti, Natalie A. Roberts, Andrea J. White, Adriana Flores-Langarica, Fiona M. McConnell, Graham Anderson, and Peter J. L. Lane


The Journal of Immunology (ISSN 0022-1767) is published twice each month by The American Association of Immunologists, Inc., 9650 Rockville Pike, Bethesda, MD 20814-3994, Phone: 301-634-7197, Fax: 301-634-7829. Subscription terms: New subscriptions and renewals begin January 1 and expire one year later (see http://www.jimmunol.org/subscriptions for prices and details). A special rate is available to members of The American Association of Immunologists, Inc. (see http://www.aai.org/membership). The American Association of Immunologists, Inc., is not responsible for undeliverable issues. Replacement issues can be obtained, if available, at the regular price of single issues (see http://www.jimmunol.org/pdf/single_issue_purchase.pdf). Reprints of individual articles are available only from the authors. Periodicals postage paid at Bethesda, MD 20814-3994, and at additional mailing offices. Country of origin U.S.A. Printed on acid-free recyclable paper. Postmaster: Send address changes 60 days in advance to The Journal of Immunology, Subscription Department, 9650 Rockville Pike, Bethesda, MD 20814-3994. Copyright © 2012 by The American Association of Immunologists, Inc.
Resolution of Experimental Lung Injury by Monocyte-Derived Inducible Nitric Oxide Synthase

Antibodies Generated against Conserved Antigens Expressed by Bacteria and Allergen-Bearing Fungi Suppress Airway Disease
Nicholas W. Kin, Emily K. Stefanov, Brian L. P. Dizon, and John F. Kearney

Rapid Differentiation of Monocytes into Type I IFN-Producing Myeloid Dendritic Cells as an Antiviral Strategy against Influenza Virus Infection
Weiping Cao, Andrewei K. Taylor, Renata E. Biber, William G. Davis, Jin Hyang Kim, Adrian J. Reher, Tatiana Chirkova, Juan A. De La Cruz, Asem Pandey, Priya Ranjan, Jacqueline M. Katz, Shivaparaksh Gangappa, and Suryaparaksh Sambhara

Nanotopography-Guided Migration of T Cells
Keon Woo Kwon, Hyounjun Park, Kwang Hoon Song, Jong-Choel Choi, Hyungmin Ahn, Moon Jeong Park, Kahl-Yang Sub, and Junsang Dob

Acquisition of MHC:Peptide Complexes by Dendritic Cells Contributes to the Generation of Antiviral CD8+ T Cell Immunity In Vivo
Lesley A. Smyth, Catherine Herrouet, Thomas Hayday, Pablo D. Becker, Richard Ellis, Robert J. Lechler, Giovanna Lombardi, and Linda S. Klavinsiki

A GpC-Rich Oligonucleotide Acts on Plasmacytoid Dendritic Cells To Promote Immune Suppression
Claudia Volpi, Francesca Fallarino, Roberta Bianchi, Ciriana Orabona, Antonella De Luca, Carmine Vacca, Luigina Romani, Bruno Gran, Ursula Grohmann, Paolo Puccetti, and Maria L. Belladonna

An NKp30-Based Chimeric Antigen Receptor Promotes T Cell Effector Functions and Antitumor Efficacy In Vivo
Tong Zhang, Ming-Ru Wu, and Charles L. Sentman

Dynamics of the Splenic Innate-like CD19+CD45Rlo Cell Population from Adult Mice in Homeostatic and Activated Conditions
Belén de Andrés, Carmen Prado, Beatriz Palacios, Mario Alía, Sharmili Jagtap, Natalia Serrano, Isabel Cortegano, Miguel Angel R. Marcos, and Maria Luisa Gaspar

A TCR Affinity Threshold Regulates Memory CD4 T Cell Differentiation following Vaccination
Christina K. Baumgartner, Hideo Yagita, and Laurent P. Malherbe

A c-Myc and Surface CD19 Signaling Amplification Loop Promotes B Cell Lymphoma Development and Progression in Mice
Jonathan C. Poe, Veronique Minard-Colin, Evgenii I. Kountikov, Karen M. Haas, and Thomas F. Tedder

Phospholipase C\gamma2 Plays a Role in TCR Signal Transduction and T Cell Selection
Guoping Fu, Yuhong Chen, James Schuman, Demin Wang, and Renren Wen

The Bone Marrow Functions as the Central Site of Proliferation for Long-Lived NK Cells
Mary J. G. van Helden, Natascha de Graaf, Claire J. P. Boog, David J. Topham, Dietmar M. W. Zais, and Alice J. A. M. Sijs

B7-DC-Ig Enhances Vaccine Effect by a Novel Mechanism Dependent on PD-1 Expression Level on T Cell Subsets
Mikayel Mkrtichyan, Yana G. Najjar, Estella C. Raulfs, Linda Liu, Solomon Langerman, Geoffrey Guittard, Laurent Ozbun, and Samir N. Khleif

Stability and Function of Secondary Th1 Memory Cells Are Dependent on the Nature of the Secondary Stimulus
Chulwoo Kim, David C. Jay, and Matthew A. Williams
MOLECULAR AND STRUCTURAL IMMUNOLOGY

2356 V(D)J Recombinase-Mediated TCR β Locus Gene Usage and Coding Joint Processing in Peripheral T Cells during Perinatal and Pediatric Development
Janet M. Murray, Terri Messier, Jami Rivers, J. Patrick O’Neill, Vernon E. Walker, Pamela M. Vacek, and Barry A. Finette

Identification of a Catalytic Exosite for Complement Component C4 on the Serine Protease Domain of C1s

Activation-Induced Cytidine Deaminase-Initiated Off-Target DNA Breaks Are Detected and Resolved during S Phase
Muneer G. Hasham, Kathy J. Snow, Nina M. Donghia, Jane A. Branca, Mark D. Lesiard, Janet Stavnezer, Lindsay S. Shopland, and Kevin D. Mills

A Common Single Nucleotide Polymorphism in Endoplasmic Reticulum Aminopeptidase 2 Induces a Specificity Switch That Leads to Altered Antigen Processing
Irinis Eouvchlidou, James Birtley, Sergey Seregin, Athanasios Papakyriakou, Efthalia Zervoudi, Martina Samiotaki, George Panayoust, Petros Giastas, Olivia Petrakis, Dimitris Georgiadiis, Andrea Amalfitano, Emmanuel Saridakis, Irene M. Mavridis, and Efstratios Stratikos

ZBTB32 Is an Early Repressor of the CIITA and MHC Class II Gene Expression during B Cell Differentiation to Plasma Cells
Hye Suk Yoon, Christopher D. Schrerer, Parimal Majumder, Carl W. Davis, Royce Butler, Wendy Zinzow-Kramer, Ioanna Skountzou, Dimitrios G. Koutsonanos, Rafi Ahmed, and Jeremy M. Boss

IMMUNOGENETICS

2404 Recombinatorial Biases and Convergent Recombination Determine Interindividual TCRβ Sharing in Murine Thymocytes
Hanjie Li, Congting Ye, Guoli Ji, Xiaohui Wu, Zhe Xiang, Yuanyue Li, Yonghao Cao, Xiaolong Liu, Daniel C. Dowek, David A. Price, and Jiahuai Han

HOST DEFENSE

Sialoadhesin Promotes Rapid Proinflammatory and Type I IFN Responses to a Sialylated Pathogen, Campylobacter jejuni
Marilii Klaas, Cornelia Oetke, Leanne E. Lewis, Lars P. Erwig, Astrid P. Heikema, Alistair Easton, Hugh J. Willison, and Paul R. Crocker

Anti-Peptidoglycan Antibodies and Fcγ Receptors Are the Key Mediators of Inflammation in Gram-Positive Sepsis
Dawei Sun, Brent Raisley, Marybeth Langer, Janaki K. Iyer, Vidya Vedham, Jimmy L. Ballard, Judith A. James, Jordan Metcalf, and K. Mark Coggeshall

CD8 T Cells Are Essential for Recovery from a Respiratory Vaccinia Virus Infection
John Goulding, Rebecka Bogue, Vikas Tahiliani, Michael Croft, and Shahram Salek-Ardakani

Type I Alveolar Epithelial Cells Mount Innate Immune Responses during Pneumococcal Pneumonia
Kazuko Yamamoto, Joseph D. Ferrari, Yuexia Cao, Maria I. Ramirez, Matthew R. Jones, Lee J. Quinton, and Joseph P. Mizgerd

Olfactomedin 4 Inhibits Cathepsin C-Mediated Protease Activities, Thereby Modulating Neutrophil Killing of Staphylococcus aureus and Escherichia coli in Mice
Wenli Liu, Ming Yan, Yueqin Liu, Kenneth R. McLeish, William G. Coleman, Jr., and Griffin P. Rodgers
Integrin αβ₂ Is a Leukocyte Receptor for Candida albicans and Is Essential for Protection against Fungal Infections
Samir Jawhara, Elzbieta Pluskota, Dmitriy Verbovetskiy, Olena Skomorovska-Prokvolit, Edward F. Plow, and Dmitry A. Soloviev

Human H-Ficolin Inhibits Replication of Seasonal and Pandemic Influenza A Viruses

Endothelial Cells and Fibroblasts Amplify the Arthritogenic Type I IFN Response in Murine Lyme Disease and Are Major Sources of Chemokines in Borrelia burgdorferi-Infected Joint Tissue
Robert B. Lochhead, F. Lynn Sonderegger, Ying Ma, James E. Brewster, Dong Cornwall, Heather Maylor-Hagen, Jennifer C. Miller, James F. Zachary, John H. Wei, and Janis J. Weis

Differential Interaction of the Two Related Fungal Species Candida albicans and Candida dubliniensis with Human Neutrophils
Eliska Svozobodová, Peter Staib, Josephine Lose, Florian Henricke, Dagmar Bara, and Mihály Józsi

Heligmosomoides polygyrus bakeri Induces Tolerogenic Dendritic Cells that Block Colitis and Prevent Antigen-Specific Gut T Cell Responses
Arthur M. Blum, Long Hang, Tommy Setiawan, Joseph P. Urban, Jr., Korynn M. Stoyanoff, John Leung, and Joel V. Weinstock

Negative Impact of IFN-γ on Early Host Immune Responses to Retroviral Infection

CD4⁺ T Cell-Dependent IFN-γ Production by CD8⁺ Effector T Cells in Mycobacterium tuberculosis Infection
Tyler D. Bold and Joel D. Ernst

Increased Susceptibility to Salmonella Infection in Signal Regulatory Protein α-Deficient Mice
Lin-Xi Li, Shaikh M. Asif, Shirdi E. Schmiel, Seung-Joo Lee, and Stephen J. McSorley

INFLAMMATION

Chitin Elicits CCL2 from Airway Epithelial Cells and Induces CCR2-Dependent Innate Allergic Inflammation in the Lung
René M. Roy, Marcel Wüthrich, and Bruce S. Klein

Endothelial CD47 Promotes Vascular Endothelial-Cadherin Tyrosine Phosphorylation and Participates in T Cell Recruitment at Sites of Inflammation In Vivo
Veronica Azcutia, Michael Stefanidakis, Naotake Tsuboi, Tanya Mayadas, Kevin J. Croce, Daiju Fukuda, Masanori Aikawa, Gail Newton, and Francis W. Luscinskas

Prostaglandin E₂ Induces Oncostatin M Expression in Human Chronic Wound Macrophages through Axl Receptor Tyrosine Kinase Pathway
Kasturi Ganesh, Amitava Das, Ryan Dickerson, Savita Khanna, Narasimham L. Parinandi, Gayle M. Gordillo, Chandan K. Sen, and Sashwati Roy

Proteinase 3, the Autoantigen in Granulomatosis with Polyangiitis, Associates with Calreticulin on Apoptotic Neutrophils, Impairs Macrophage Phagocytosis, and Promotes Inflammation
Julie Gabillet, Arnaud Millet, Magali Pedersen-Ribel, Pascale Tacnet-Delorme, Loïc Guillemin, Luc Mouthon, Philippe Frachet, and Véronique Witko-Sarsat

Dendritic Cell Sphingosine 1-Phosphate Receptor-3 Regulates Th1–Th2 Polarity in Kidney Ischemia–Reperfusion Injury
Amandeep Bajwa, Liping Huang, Hong Ye, Krishna Dondeti, Steven Song, Diane L. Rosin, Kevin R. Lynch, Peter I. Lobo, Li Li, and Mark D. Okusa

Resolvin D1 and Resolvin D2 Govern Local Inflammatory Tone in Obese Fat
Joan Claria, Jesmond Dalli, Stephanie Yacoubian, Fei Gao, and Charles N. Serhan
2606 The Role of Properdin in Zymosan- and Escherichia coli-Induced Complement Activation
Morten Harboe, Peter Garred, Julie K. Lindstad, Anne Pharøe, Fredrik Müller, Gregory L. Stahl, John D. Lambris, and Tom E. Mollnes

2614 Systemic Analysis of PPARγ in Mouse Macrophage Populations Reveals Marked Diversity in Expression with Critical Roles in Resolution of Inflammation and Airway Immunity
Emmanuel L. Gautier, Andrew Chow, Rainer Spanbroek, Genevieve Marcelin, Melanie Greter, Claudia Jakubzick, Milena Begunovic, Marylene Leboeuf, Nico van Rooijen, Andreas J. Habenicht, Miriam Merad, and Gwendalyn J. Randolph

CLINICAL IMMUNOLOGY

2625 Glioma Big Potassium Channel Expression in Human Cancers and Possible T Cell Epitopes for Their Immunotherapy
Lisheng Ge, Neil T. Hoa, Andrew N. Cornforth, Daniela A. Bota, Anthony Mai, Dong In Kim, Shiuw-Kwei Chiong, Michelle J. Hickey, Carol A. Kruse, and Martin R. Jadus

2635 Chitinase 1 Is a Biomarker for and Therapeutic Target in Scleroderma-Associated Interstitial Lung Disease That Augments TGF-β1 Signaling

2645 Noncovalent Assembly of Anti-Dendritic Cell Antibodies and Antigens for Evoking Immune Responses In Vitro and In Vivo
Anne-Laure Flamar, Sandra Zurawski, Felix Scholz, Ingrid Gayet, Ling Ni, Xiao-Hua Li, Eynav Klechevsky, John Quinn, SangKon Oh, Daniel H. Kaplan, Jacques Banchereau, and Gerard Zurawski

2656 Intratumoral hu14.18–IL-2 (IC) Induces Local and Systemic Antitumor Effects That Involve Both Activated T and NK Cells As Well As Enhanced IC Retention

2665 Functional Exhaustion of CD4⁺ T Lymphocytes during Primary Cytomegalovirus Infection
Pierre Antoine, Véronique Olislagers, Ariane Huygens, Sandra Lecomte, Corinne Liensard, Catherine Donner, and Arnaud Marchant

2673 B Cell Memory to a Serogroup C Meningococcal Conjugate Vaccine in Childhood and Response to Booster: Little Association with Serum IgG Antibody
Kirsten P. Perrett, Celina Jin, Elizabeth Clutterbuck, Tesa M. John, Amy P. Winter, Elizabeth Kibwana, Ly-Mee Yu, Nigel Curtis, and Andrew J. Pollard

CORRECTIONS

2682 Correction: Increased Antigen Presentation Efficiency by Coupling Antigens to MHC Class I Trafficking Signals
Sebastian Kreiter, Abderraouf Selmi, Mustafa Diken, Martin Sebastian, Phillip Osterloh, Hanjüng Schild, Christoph Huber, Özlem Türeci, and Ugur Sahin

2683 AUTHOR INDEX