This information is current as of July 25, 2017.

177 (3)
PRESIDENTIAL ADDRESS

1369 Defining Yourself: Tolerance Development in the Immune System
Paul M. Allen

IN THIS ISSUE

LETTERS TO THE EDITOR

1375 Comment on “The Vast Majority of CLA+ T Cells Are Resident in Normal Skin”
Patrick Schaerli, Lisa M. Ebert, and Bernhard Moer

1376 Response to Comment on “The Vast Majority of CLA+ T Cells Are Resident in Normal Skin”
Rachael A. Clark and Thomas S. Kupper

1377 Comment on “Mast Cell-Mediated Remodeling and Fibrinolytic Activity Protect against Fatal Glomerulonephritis”
Kathrin Hochegger, Alexander R. Rosenkranz, Frank Siebenhaar, and Marcus Maurer

1377 Response to Comment on “Mast Cell-Mediated Remodeling and Fibrinolytic Activity Protect against Fatal Glomerulonephritis”
Yutaka Kanamaru, Lisa Scandiuzzi, Marie Essig, Renato C. Monteiro, and Ulrich Blank

PILLARS OF IMMUNOLOGY

1379 T Cells Stop to Smell the (Antigenic) Roses
Pamela J. Fink

Jonathan Sprent, Jacques F. A. P. Miller, and Graham F. Mitchell

BRIEF REVIEWS

1393 Novel Effector Molecules in Type 2 Inflammation: Lessons Drawn from Helminth Infection and Allergy
Meera G. Nair, Katherine J. Guild, and David Artis


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. Subscription term: 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). Periodicals postage paid at Bethesda, MD 20814-3998, and at additional mailing offices. Country of origin U.S.A. Printed on acid-free recyclable paper. Postmaster: Send address changes to The Journal of Immunology, Subscription Department, Room L-2407A, 9650 Rockville Pike, Bethesda, MD 20814-3998. Copyright © 2006 by The American Association of Immunologists, Inc.
Cutting Edge: Lupus Susceptibility Interval Sle3/5 Confers Responsiveness to Prolactin in C57BL/6 Mice
Elena Peeva, Juana Gonzalez, Ruthmarie Hicks, and Betty Diamond

Cutting Edge: Cognate CD4 Help Promotes Recruitment of Antigen-Specific CD8 T Cells around Dendritic Cells
Hélène Beuneu, Zacarias Garcia, and Philippe Bousso

Cutting Edge: Central Memory T Cells Do Not Show Accelerated Proliferation or Tissue Infiltration in Response to Localized Herpes Simplex Virus-1 Infection
Angus T. Stock, Claerwen M. Jones, William R. Heath, and Francis R. Carbone

Cutting Edge: IFN-γ Regulates the Induction and Expansion of IL-17-Producing CD4 T Cells during Mycobacterial Infection
Andrea Cruz, Shabaana A. Khader, Egidio Torrado, Alexandra Fraga, John E. Pearl, Jorge Pedrosa, Andrea M. Cooper, and António G. Castro

Cutting Edge: Unique T Cells That Recognize Citrullinated Peptides Are a Feature of Protein Immunization
Jamie Ireland, Jeremy Herzog, and Emil R. Unanue

Cellular Immunology and Immune Regulation

EBV-Specific CD4+ T Cell Clones Exhibit Vigorous Allogeneic Responses
Elise Landais, Alexis Morice, Heather M. Long, Tracey A. Haigh, Béatrice Charreau, Marc Bonneville, Graham S. Taylor, and Elisabeth Houssaint

Tripeptidyl Peptidase II Is the Major Peptidase Needed to Trim Long Antigenic Precursors, but Is Not Required for Most MHC Class I Antigen Presentation
Ian A. York, Nidhi Bhutani, Sophia Zendejas, Alfred L. Goldberg, and Kenneth L. Rock

Reconstitution of Allogeneic Hemopoietic Stem Cells: The Essential Role of FcRγ and the TCR β-Chain-FcP33 Complex
Kendra N. Taylor, Vivek R. Shinde Patil, and yolonda L. Colson

Suppression of Disease in New Zealand Black/New Zealand White Lupus-Prone Mice by Adoptive Transfer of Ex Vivo Expanded Regulatory T Cells
Kenneth J. Scalapino, Qizhi Tang, Jeffrey A. Bluestone, Mark L. Bonyhadi, and David I. Daikh

Dendritic Cells Can Turn CD4+ T Lymphocytes into Vascular Endothelial Growth Factor-Carrying Cells by Intercellular Neuropilin-1 Transfer
Sarah Bourbié-Vaudaine, Nicolas Blanchard, Claire Hivroz, and Paul-Henri Roméo

RasGRP1 Transmits Proliferation and TCR Signaling That Is Crucial for CD4 T Cell Development
John J. Priatel, Xiaoxi Chen, Salim Dhanji, Nirnan Abraham, and Hung-Sia Teh

The Cytoplasmic Domain of Fas Ligand Costimulates TCR Signals
Mingyi Sun, Kristina T. Ames, Ivy Suzuki, and Pamela J. Fink

Phosphorylation of Nonmuscle Myosin Heavy Chain IIA on Ser1917 Is Mediated by Protein Kinase CβII and Coincides with the Onset of Stimulated Degranulation of RBL-2H3 Mast Cells
Russell I. Ludowyke, Zehra Elgundi, Tanya Krämer, Justine R. Stehn, Carsten Schmitz-Peiffer, William E. Hughes, and Trevor J. Biden

The Thymus Plays a Role in Oral Tolerance in Experimental Autoimmune Encephalomyelitis
Fei Song, Zhen Guan, Ingrid E. Gienapp, Todd Shawler, Jacqueline Benson, and Caroline C. Whitacre

Involvement of NFAT1 in B Cell Self-Tolerance
Robert A. Barrington, Madhuri Borde, Anjana Rao, and Michael C. Carroll
1516 Delayed Expansion and Contraction of CD8+ T Cell Response during Infection with Virulent Salmonella typhimurium
Rachel A. Luu, Komal Gurnani, Renu Dudani, Rajagopal Kammarra, Henk van Faassen, Jean-Claude Sirard, Lakshmi Krishnan, and Subash Sud

1526 Immunoeediting of Cancers May Lead to Epithelial to Mesenchymal Transition
Keith L. Knutson, Hailing Lu, Brad Stone, Jennifer M. Reiman, Marshall D. Behrens, Christine M. Prosperi, Ekram A. Gad, Arianna Smorlesi, and Mary L. Disis

1534 Priming Protective CD8 T Cell Immunity by DNA Vaccines Encoding Chimeric, Stress Protein-Capturing Tumor-Associated Antigen
Reinhold Schirmbeck, Petra Riedl, Mark Kapferschmitt, Ursula Wegenka, Hanjörg Hauser, Jason Rice, Andrea Kröger, and Jörg Reimann

1543 Extracellular Targeting of Endoplasmic Reticulum Chaperone Glucose-Regulated Protein 170 Enhances Tumor Immunity to a Poorly Immunogenic Melanoma
Xiang-Yang Wang, Hilal Arnouk, Xing Chen, Latif Kazim, Elizabeth A. Repasky, and John R. Subject

1552 Pertussis Toxin Reduces the Number of Splenic Foxp3+ Regulatory T Cells
Cécile Casan, Eliane Piaggio, Jacques P. Zappulla, Lennart T. Mår, Nicolas Couturier, Florence Bucciarelli, Sabine Desbois, Jan Bauer, Daniel Gonzalez-Dunia, and Roland S. Liblau

1561 Differential Polarization of Immune Responses by Plant 2S Seed Albumins, Ber e 1, and SFA8
Dorothy E. Kean, Helen S. Goodridge, Stephen McGuinness, Margaret M. Harnett, Marcos J. C. Alcocer, and William Harnett

1567 A Critical Role for Prostaglandin E2 in Podosome Dissolution and Induction of High-Speed Migration during Dendritic Cell Maturation
Suzanne F. G. van Helden, Danielle J. E. B. Krooshoop, Karin C. M. Broers, Reinier A. P. Raymakers, Carl G. Figdor, and Frank N. van Leeuwen

1575 CXCL16 Influences the Nature and Specificity of CpG-Induced Immune Activation
Mayda Gursel, Ihsan Gursel, Howard S. Mostowski, and Dennis M. Klinman

1581 Kinetics of B Cell Receptor Signaling in Human B Cell Subsets Mapped by Phosphospecific Flow Cytometry
Jonathan M. Irish, Debra K. Czerwinski, Garry P. Nolan, and Ronald Levy

1590 CD8αα-Mediated Intraepithelial Lymphocyte Snatching of Thymic Leukemia MHC Class Ib Molecules In Vitro and In Vivo
Nathalie Pardigon, Kazuyo Takeda, Bertrand Saunier, Felicita Hornung, James Gibbs, Andrea Weissberg, Nikhat Contractor, Brian Kelall, Jack R. Bennink, and Jonathan W. Yewdell

1599 Accumulation of Immunosuppressive CD11b+ Myeloid Cells Correlates with the Failure to Prevent Tumor Growth in the Anterior Chamber of the Eye
Kyle C. McKenna and Judith J. Kap

1609 Crucial Commitment of Proteolytic Activity of a Purified Recombinant Major House Dust Mite Allergen Der p1 to Sensitization toward IgE and IgG Responses
Yuko Kikuchi, Toshiro Takai, Takatoshi Kuhara, Mikiko Ota, Takeshi Kato, Hideki Hatanaka, Saori Ichikawa, Tomoko Tokura, Hisaya Akiba, Kouichi Mitsuishi, Shigaku Ikeda, Ko Okumura, and Hideoki Ogawa

1618 Visualization of IL-12/23p40 In Vivo Reveals Immunostimulatory Dendritic Cell Migrants that Promote Th1 Differentiation
R. Lee Reinhardt, Seokmann Hong, Suk-Jo Kang, Zhi-en Wang, and Richard M. Locksley

1628 Intestinal Helminths Protect in a Murine Model of Asthma
Kunihiko Kitagaki, Thomas R. Businga, Doina Racila, David E. Elliott, Joel V. Weinstock, and Joel N. Kline

1636 Active ERK Contributes to Protein Translation by Preventing JNK-Dependent Inhibition of Protein Phosphatase 1
Martha M. Monick, Linda S. Powers, Thomas J. Gross, Dawn M. Flaherty, Christopher W. Barrett, and Gary W. Hunninghake
1646 Genetic Dissection of the Effects of Stimulatory and Inhibitory IgG Fc Receptors on Murine Lupus
Qingshun Lin, Yan Xiu, Yi Jiang, Hiromichi Tsurui, Kazuhiro Nakamura, Sanki Kodera, Mareki Ohtsuji, Naomi Ohtsuji, Wakana Shiroiwa, Katsuyuki Tsukamoto, Hirofumi Amano, Eri Amano, Katsuyuki Kinoshita, Katsuko Sudo, Hiroyuki Nishimura, Shozo Izui, Toshikazu Shirai, and Sachiko Hirose

1655 Anti-Mitochondrial Antibodies and Primary Biliary Cirrhosis in TGF-β Receptor II Dominant-Negative Mice
Sabine Oertelt, Zhe-Xiong Lian, Chun-Mei Cheng, Ya-Hui Chuang, Kerstien A. Padgett, Xiao-Song He, William M. Ridgway, Afiah A. Anvari, Ros L. Cappel, Ming O. Li, Richard A. Flavell, Mitchell Kronenberg, Ian R. Mackay, and M. Eric Gershwin

1661 Yeast β-Glucan Amplifies Phagocyte Killing of iC3b-Opsonized Tumor Cells via Complement Receptor 3-Syk-Phosphatidylinositol 3-Kinase Pathway
Bing Li, Daniel J. Allendorf, Richard Hansen, Jose Marroquin, Chuanlin Ding, Daniel E. Cramer, and Jun Yan

1670 New Generation Vaccine Induces Effective Melanoma-Specific CD8+ T Cells in the Circulation but Not in the Tumor Site

1679 Dendritic Cells Transduced with SOCS-3 Exhibit a Tolerogenic/DC2 Phenotype That Directs Type 2 Th Cell Differentiation In Vitro and In Vivo
Yonghai Li, Niansheng Chu, Abdolmohamad Rostami, and Guang-Xian Zhang

1689 Local Intrahepatic CD8+ T Cell Activation by a Non-Self-Antigen Results in Full Functional Differentiation
Sherry A. Wiesen, Robert H. Pierce, and I. Nicholas Crispe

1698 Molecular and Structural Immunology

1698 Autoimmunity as a Result of Escape from RNA Surveillance

1708 Specific Patterns of Cdc42 Activity Are Related to Distinct Elements of T Cell Polarization
Irina Tskvitaria-Fuller, Abhinav Seth, Neeta Mistry, Hua Gu, Michael K. Rosen, and Christoph Wulfing

1712 Filamin A Is Required for T Cell Activation Mediated by Protein Kinase C-θ
Keitaro Hayashi and Amnon Altman

1729 Arginine Residues Are Important in Determining the Binding of Human Monoclonal Antiphospholipid Antibodies to Clinically Relevant Antigens
Ian Giles, Nancy Lambrianides, Nisha Pattini, David Faulkes, David Latchman, Pojen Chen, Silvia Pierangeli, David Lienberg, and Anisur Rahman

1737 Degalactosylated and/or Denatured IgA, but Not Native IgA in Any Form, Bind to Mannose-Binding Lectin
Iitaru Terai, Kunihiko Kobayashi, Jean-Pierre Vaerman, and Naoki Mafune

1746 Host Defense

1746 Innate Inflammatory Signals Induced by Various Pathogens Differentially Dictate the IFN-I Dependence of CD8 T Cells for Clonal Expansion and Memory Formation
Lucas J. Thompson, Ganesh A. Kolumam, Sunil Thomas, and Kaja Murali-Krishna

1755 Mast Cells Have a Pivotal Role in TNF-Independent Lymph Node Hypertrophy and the Mobilization of Langerhans Cells in Response to Bacterial Peptidoglycan
Dunia M. Jawdat, Geoffrey Rowden, and Jean S. Marshall

1763 B Cells and CD4+ CD8− T Cells Are Key Regulators of the Severity of Reactivation Histoplasmosis
Holly L. Allen and George S. Deepe, Jr.
A Protein Associated with Toll-Like Receptor 4 (PRAT4A) Regulates Cell Surface Expression of TLR4
Yasutaka Wakabayashi, Makiko Kobayashi, Sachiko Akashi-Takamura, Natsuko Tanimura, Kazzounori Konno, Koichiro Takahashi, Takashi Ishii, Taketoshi Mizutani, Hideo Iba, Taku Kouro, Satoshi Takaki, Kiyoshi Takatsu, Yoshita Oda, Yasushi Ishihama, Shin-ichiroh Saitoh, and Kensuke Miyake

Phenotypical and Functional Analysis of Memory and Effector Human CD8 T Cells Specific for Mycobacterial Antigens
Nadia Caccamo, Serena Meraviglia, Carmela La Mendola, Giuliana Guggino, Francesco Dieli, and Alfredo Salerno

T-bet Deficiency Facilitates Airway Colonization by Mycoplasma pulmonis in a Murine Model of Asthma
Chandra Shekhar Bakshi, Meenakshi Malik, Pauline M. Carrico, and Timothy J. Sellati

Meso-Diaminopimelic Acid and Meso-Lanthionine, Amino Acids Specific to Bacterial Peptidoglycans, Activate Human Epithelial Cells through NOD1
Akiko Uehara, Yukari Fujimoto, Akiko Kawasaki, Shoichi Kusumoto, Koichi Fukase, and Haruhiko Takada

Fine Discrimination in the Recognition of Individual Species of Phosphatidyl-myo-Inositol Mannosides from Mycobacterium tuberculosis by C-Type Lectin Pattern Recognition Receptors
Jordi B. Torrelles, Abul K. Azad, and Larry S. Schlesinger

Alveolar Epithelial Cells Direct Monocyte Transepithelial Migration upon Influenza Virus Infection: Impact of Chemokines and Adhesion Molecules
Susanne Herold, Werner von Wolff, Mirko Steinmueller, Stephan Pleschka, William A. Kuziel, Matthias Mack, Mrgank Srivastava, Werner Seeger, Ulrich A. Maus, and Juergen Lohneyer

γδ T Cells Facilitate Adaptive Immunity against West Nile Virus Infection in Mice

Allergic Airway Inflammation Inhibits Pulmonary Antibacterial Host Defense
Christoph Beisswenger, Kerstin Kandler, Christian Hess, Holger Garn, Kerstin Felgentreff, Michael Wegmann, Harald Renz, Claus Vogelmeier, and Robert Bals

A Novel 40-kDa Protein Containing Six Repeats of an Epidermal Growth Factor-Like Domain Functions as a Pattern Recognition Protein for Lipopolysaccharide
Jin Sung Ju, Mi Hyang Cho, Lore Brade, Jung Hyun Kim, Ji Won Park, Nam-Chul Ha, Irena Sodermahl, Kenneth Soderhahl, Helmut Brade, and Bok Luel Lee

CXCR3 and IFN Protein-10 in Pneumocystis Pneumonia
Florence McAllister, Sanbao Ruan, Chad Steele, Mingguan Zheng, Laura McKinley, Lauren Ulrich, Luis Marrero, Judd E. Shellito, and Jay K. Kolls

Both CXCR3 and CXCL10/IFN-Inducible Protein 10 Are Required for Resistance to Primary Infection by Dengue Virus
Ming-Fang Hsieh, Su-Liang Lai, Jia-Ping Chen, Jui-Ming Sung, Yi-Ling Lin, Betty A. Wu-Hsieh, Craig Gerard, Andrew Luster, and Fang Liao

Macrophages Acquire Neutrophil Granules for Antimicrobial Activity against Intracellular Pathogens
Belinda H. Tan, Christoph Meinken, Max Bastian, Heiko Bruns, Annaliza Legaspi, Maria Teresa Ochoa, Stephan R. Krutzik, Barry R. Bloom, Tomas Ganz, Robert L. Modlin, and Steffen Stenger

INFLAMMATION

Complement Activation via Alternative Pathway Is Critical in the Development of Laser-Induced Choroidal Neovascularization: Role of Factor B and Factor H
Nalini S. Bora, Sankaranarayanan Kaliappan, Purushottam Jha, Qin Xu, Jeong-Hyeon Sohn, Dharo B. Dhaulakhandi, Henry J. Kaplan, and Puran S. Bora

Membrane-Bound Prostaglandin E Synthase-1-Mediated Prostaglandin E2 Production by Osteoblast Plays a Critical Role in Lipopolysaccharide-Induced Bone Loss Associated with Inflammation
Masaki Inada, Chihito Matsumoto, Satoshi Uematsu, Shizuo Akira, and Chiaki Miyake