This information is current as of April 13, 2017.
PRESIDENTIAL ADDRESS

5487 Signaling Pathways That Regulate T Cell Development and Differentiation
Leslie J. Berg

IN THIS ISSUE

CUTTING EDGE

5493 Cutting Edge: Tumor-Targeting Antibodies Enhance NKG2D-Mediated NK Cell Cytotoxicity by Stabilizing NK Cell–Tumor Cell Interactions
Jacques Deguine, Béatrice Breaat, Fabrice Lemaître, and Philippe Bouso

5498 Cutting Edge: IL-13Ra1 Expression in Dopaminergic Neurons Contributes to Their Oxidative Stress–Mediated Loss following Chronic Peripheral Treatment with Lipopolysaccharide
Brad E. Morrison, Maria Cecilia Garibaldi Marcondes, Daniel K. Nomura, Manuel Sanchez-Alavez, Alejandro Sanchez-Gonzalez, Indrek Saar, Kwang-Soo Kim, Tamas Bartfai, Pamela Maher, Shuei Sugama, and Bruno Conti

5503 Cutting Edge: B Cells Are Essential for Protective Immunity against Salmonella Independent of Antibody Secretion
Minelva R. Nanton, Sing Sing Way, Mark J. Shlomchik, and Stephen J. McSorley

5508 Cutting Edge: FAS (CD95) Mediates Noncanonical IL-1β and IL-18 Maturation via Caspase-8 in an RIP3-Independent Manner

5513 Cutting Edge: FcγRIII (CD16) and FcγRI (CD64) Are Responsible for Anti-Glycoprotein 75 Monoclonal Antibody TA99 Therapy for Experimental Metastatic B16 Melanoma
Marcello Albanesi, David A. Mancardi, Lynn E. Macdonald, Bruno Iannascoli, Lawrence Zitvogel, Andrew J. Murphy, Jeanette H. Leusen, and Pierre Bruhns

On the cover: Spontaneous B cell proliferation in the germinal center in C57BL/6 (B6) mice carrying the lupus-prone Sle1b sublocus (termed B6.Sle1b). A spleen section from a 6- to 9-mo-old female B6.Sle1b mouse was stained for anti-IgD (blue), GL7 (green), and anti-Ki67 (red). Wong, E. B., T. N. Khan, C. Mohan, and Z. S. M. Rahman. 2012. The lupus-prone NZM2410/NZW strain–derived Sle1b sublocus alters the germinal center checkpoint in female mice in a B cell–intrinsic manner. J. Immunol. 189: 5667–5681.
Developmentally Regulated Availability of RANKL and CD40 Ligand Reveals Distinct Mechanisms of Fetal and Adult Cross-Talk in the Thymus Medulla
Guillaume E. Desanti, Jennifer E. Cowan, Song Baik, Sonia M. Parnell, Andrea J. White, Josef M. Penninger, Peter J. L. Lane, Eric J. Jenkinson, William E. Jenkinson, and Graham Anderson

The Capsular Polysaccharide Vi from Salmonella Typhi Is a B1b Antigen

Macrophage Migration Inhibitory Factor Promotes Tumor Growth and Metastasis by Inducing Myeloid-Derived Suppressor Cells in the Tumor Microenvironment
Kendra D. Simpson, Dennis J. Templeton, and Janet V. Cross

Lymphopenia-Driven Homeostatic Regulation of Naive T Cells in Elderly and Thymectomized Young Adults
Delphine Sauce, Martin Larsen, Solène Fastenackels, Antoine Roux, Guy Gorochov, Christine Katlama, Daniel Sidi, Joyce Sibony-Prat, and Victor Appay

Modification of a Tumor Antigen Determinant To Improve Peptide/MHC Stability Is Associated with Increased Immunogenicity and Cross-Priming a Larger Fraction of CD8+ T Cells
Alan M. Watson, Lawrence M. Mylin, Megan M. Thompson, and Todd D. Schell

Suppressors of Cytokine Signaling Promote Fas-Induced Apoptosis through Downregulation of NF-κB and Mitochondrial Bfl-1 in Leukemic T Cells
Jiyoung Oh, Seol-Hee Kim, Sinae Ahn, and Choong-Eun Lee

Nonalloreactive T Cells Prevent Donor Lymphocyte Infusion–Induced Graft-versus-Host Disease by Controlling Microbial Stimuli
Hao Wei Li, Jessica Sachs, Clarimel Pichardo, Roderick Bronson, Gwiling Zhao, and Megan Sykes

Ex Vivo Enzymatic Treatment of Aged CD4 T Cells Restores Cognate T Cell Helper Function and Enhances Antibody Production in Mice
Eric Perkey, Richard A. Miller, and Gonzalo G. Garcia

Human Prostate Tumor Antigen–Specific CD8+ Regulatory T Cells Are Inhibited by CTLA-4 or IL-35 Blockade
Brian M. Olson, Ewa Jankowska-Gan, Jordan T. Becker, Dario A. A. Vignali, William J. Burlingham, and Douglas G. McNeel

Tumor-Infiltrating Monocytic Myeloid-Derived Suppressor Cells Mediate CCR5-Dependent Recruitment of Regulatory T Cells Favoring Tumor Growth
Eva Schlecker, Ana Stojanovic, Christian Eisen, Christian Quack, Christine S. Falk, Viktor Umansky, and Adelheid Cerwenka

Suppression of Vaccine Immunity by Inflammatory Monocytes
Leah A. Mitchell, Angela J. Henderson, and Steven W. Dow

A Combination of Local Inflammation and Central Memory T Cells Potentiates Immunotherapy in the Skin
Salvatore Fiorenza, Tony J. Kenna, Iain Comerford, Shaun McColl, Raymond J. Steptoe, Graham R. Leggatt, and Ian H. Frazer

Migrating Lymph Dendritic Cells Contain Intracellular CD40 That Is Mobilized to the Immunological Synapse during Interactions with Antigen-Specific T Lymphocytes
Neil Foster, Emma L. Turnbull, and Gordon Macpherson
IL-10 Produced by Induced Regulatory T Cells (iTregs) Controls Colitis and Pathogenic Ex-iTregs during Immunotherapy

IL-7 Abrogates Suppressive Activity of Human CD4+CD25+FOXP3+ Regulatory T Cells and Allows Expansion of Alloreactive and Autoreactive T Cells
Anne-Kristin Heninger, Anke Theil, Carmen Wilhelm, Cathleen Pezzold, Nicole Huebel, Karsten Kretschmer, Ezio Bonifacio, and Paolo Monti

Cyclin-Dependent Kinase 2 Controls Peripheral Immune Tolerance
Neelanjana Chunder, Liqing Wang, Chunxia Chen, Wayne W. Hancock, and Andrew D. Wells

The Lupus-Prone NZM2410/NZW Strain–Derived Sla1b Sublocus Alters the Germinal Center Checkpoint in Female Mice in a B Cell–Intrinsic Manner
Eric B. Wong, Tabin N. Khan, Chandra Mohan, and Ziaur S. M. Rahman

B Lymphocyte–Induced Maturation Protein-1 Contributes to Intestinal Mucosa Homeostasis by Limiting the Number of IL-17–Producing CD4+ T Cells
Soofia Salehi, Rasbhi Bankoti, Luciana Benevides, Jessica Willen, Michael Couse, Joao S. Silva, Deepti Dhall, Eric Meffre, Stephan Targan, and Gislaine A. Martins

Regulation of Allograft Survival by Inhibitory FcγRIIb Signaling

Unlinked Memory Helper Responses Promote Long-Lasting Humoral Alloimmunity

β-Glucan Curdlan Induces IL-10–Producing CD4+ T Cells and Inhibits Allergic Airway Inflammation
Saki Kawashima, Keichi Hirose, Arifumi Iwata, Kentaro Takahashi, Ayako Ohkubo, Tomohiro Tamachi, Kei Ikeda, Shin-ichiro Kagami, and Hiroshi Nakajima

Serum-Derived Plasminogen Is Activated by Apoptotic Cells and Promotes Their Phagocytic Clearance
Matthias Rosenwald, Uwe Koppe, Hildegard Keppler, Guido Sauer, Roman Hennel, Anne Ernst, Karin Erika Blume, Christoph Peter, Martin Herrmann, Claus Belka, Klaus Schulze-Osthoff, Sebastian Wesselborg, and Kirsten Lauber

Potent Induction of Antibody-Secreting B Cells by Human Dermal-Derived CD14+ Dendritic Cells Triggered by Dual TLR Ligation
Katie Matthews, Nancy P. Y. Chung, Per Johan Klasse, John P. Moore, and Rogier W. Sanders

Systemic Flagellin Immunization Stimulates Mucosal CD103+ Dendritic Cells and Drives Foxp3+ Regulatory T Cell and IgA Responses in the Mesenteric Lymph Node

An Anti-Nucleic Acid Antibody Delivers Antigen to the Cross-Presentation Pathway in Dendritic Cells and Potentiates Therapeutic Antitumor Effects
Chuong D. Pham, Min-Yeong Woo, Yong-Sung Kim, Sun Park, and Myung-Hee Kwon

Environmental and T Cell–Intrinsic Factors Limit the Expansion of Neonatal Follicular T Helper Cells but May Be Circumvented by Specific Adjuvants
Béatrice Mastelic, Arun T. Kamath, Paola Fontanone, Chantal Tongue, Anne-Françoise Rochat, Elodie Belnoue, Christophe Combescure, Floriane Auderset, Paul-Henri Lambert, Fabienne Tacchini-Cottier, and Claire-Anne Siegrist

In Vitro Generation of Long-lived Human Plasma Cells
Mario Coco, Sophie Stephenson, Matthew A. Care, Darren Newton, Nicholas A. Barnes, Adam Davison, Andy Rawstron, David R. Westhead, Gina M. Doody, and Reuben M. Tooze
B Cell TLR7 Expression Drives Anti-RNA Autoantibody Production and Exacerbates Disease in Systemic Lupus Erythematosus–Prone Mice

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Role of Recycling, Mindbomb1 Association, and Exclusion from Lipid Rafts of Delta-like 4 for Effective Notch Signaling To Drive T Cell Development
Divya K. Shah, Mahmoud Mohtashami, and Juan Carlos Zúñiga-Pflücker

Integrins α6β3 and α4β1 Act as Coreceptors for Fractalkine, and the Integrin-Binding Defective Mutant of Fractalkine Is an Antagonist of CX3CR1
Matsuki Fujita, Yoko K. Takada, and Yoshikazu Takada

Molecular Characterization of the Early B Cell Response to Pulmonary Cryptococcus neoformans Infection
Soma Rohatgi and Liise-anne Pirofski

Antibody C Region Influences TGN1412-like Functional Activity In Vitro
Christina Ball, Bernard Fox, Simon Hufson, Giles Sharp, Stephen Poole, Richard Stebbings, David Eastwood, Lucy Findlay, Paul W. H. I. Parren, Robin Thorpe, Adrian Bristow, and Susan J. Thorpe

HOST DEFENSE

CD8+ T Cell–Derived IFN-γ Prevents Infection by a Second Heterologous Virus
Laura Valentine, Rashaun Potts, and Mary Premenko-Lanier

Intrapulmonary G-CSF Rescues Neutrophil Recruitment to the Lung and Neutrophil Release to Blood in Gram-Negative Bacterial Infection in MCP-1−/− Mice
Gayathriy Balamayooran, Sanjay Batra, Balamayooran Theivanthiran, Shanshan Cai, Pal Pacher, and Samithamby Jeyaseelan

Mice Deficient in Ficolin, a Lectin Complement Pathway Recognition Molecule, Are Susceptible to Streptococcus pneumoniae Infection
Yuichi Endo, Minoru Takahashi, Daisuke Iwaki, Yumi Ishida, Naomi Nakazawa, Tobihisa Kodama, Tomohiro Matsuzaka, Kazuko Kanno, Yu Liu, Kohuke Tsuchiya, Ikuo Kawamura, Masahito Ikawa, Satoshi Waguri, Ikuo Wada, Misao Matushita, Wilhelm J. Schwaeble, and Teizo Fujita

Bioinformatic and Empirical Analysis of Novel Hypoxia-Inducible Targets of the Human Antituberculosis T Cell Response

Plasmablasts Generated during Repeated Dengue Infection Are Virus Glycoprotein–Specific and Bind to Multiple Virus Serotypes
MeiHui Xu, Vey Hadinoto, Ramaprabha Appanna, Klau Joonsen, Ying Xiu Toh, Thavamalar Balakrishnan, Swee Hoe Ong, Lucile Warter, Yee Sin Leo, Cheng-I Wang, and Katja Fink

Mannose-Capped Lipoarabinomannan from Mycobacterium tuberculosis Preferentially Inhibits Sphingosine-1-Phosphate–Induced Migration of Th1 Cells
jillian M. Richmond, Jinhee Lee, Daniel S. Green, Hardy Kornfeld, and William W. Cruikshank

The Tim3–Galectin 9 Pathway Induces Antibacterial Activity in Human Macrophages Infected with Mycobacterium tuberculosis
Isabel Sada-Ovalle, Leslie Chávez-Galán, Luis Torre-Boucoulet, Lourdes Nava-Gamiño, Lourdes Barrera, Pushpa Jayaraman, Martha Torres-Rojas, Miguel Angel Salazar-Lezama, and Samuel M. Behar

Inhibitory Receptor Paired Ig-like Receptor B Is Exploited by Staphylococcus aureus for Virulence
Masami Nakayama, Kenji Kurokawa, Kyohi Nakamura, Bok Luel Lee, Kazuhisa Sekimizu, Hiroki Kubagawa, Keichi Hiramatsu, Hideo Tagita, Ko Okumura, Toshiyuki Takai, David M. Underhill, Alan Aderem, and Konetsu Ogawara
Atlantic Salmon Type I IFN Subtypes Show Differences in Antiviral Activity and Cell-Dependent Expression: Evidence for High IFNb/IFNc–Producing Cells in Fish Lymphoid Tissues
Tina Svingerud, Terese Solstad, Baqian Sun, May Lis J. Nyvind, Øyvind Kileng, Linn Greiner-Tollersrud, and Børre Robertsen

INFLAMMATION

On the Role of Regulatory T Cells during Viral-Induced Inflammatory Lesions
Tamara Veiga-Parga, Amol Suryawanshi, Sachin Mulik, Fernanda Giménez, Shalini Sharma, Tim Sparwasser, and Barry T. Rouse

Role of Galectin-3 in Classical and Alternative Macrophage Activation in the Liver following Acetaminophen Intoxication
Ana-Cristina Docan Dragoni, Richard Sun, Hyejeong Choi, Jeffrey D. Laskin, and Debra L. Laskin

IPS-1 Signaling Has a Nonredundant Role in Mediating Antiviral Responses and the Clearance of Respiratory Syncytial Virus
Tine Demoor, Bryan C. Petersen, Susan Morris, Sumanta Mukherjee, Catherine Paschoskina, Denise E. De Almeida Nagata, Taro Kawai, Toshihiro Ito, Shizuo Akira, Steven L. Kunkel, Matthew A. Schaller, and Nicholas W. Lukacs

Leukocyte Function Antigen-1, Kindlin-3, and Calcium Flux Orchestrate Neutrophil Recruitment during Inflammation
Neha Dixit, Min-Ho Kim, Jan Rosaint, Itsukyo Yamayoishi, Alexander Zarbock, and Scott I. Simon

miR-451 Regulates Dendritic Cell Cytokine Responses to Influenza Infection
Carrie M. Rosenberger, Rebecca L. Podyminogin, Garret Navarro, Guo-Wei Zhao, Peter S. Askojich, Mitchell J. Weiss, and Alan Aderem

CLINICAL IMMUNOLOGY

Anti–IFN-α/β Receptor Antibody Treatment Ameliorates Disease in Lupus-Predisposed Mice
Roberto Baccala, Rosana Gonzalez-Quintial, Robert D. Schreiber, Brian R. Lawson, Dwight H. Kono, and Argyrios N. Theofilopoulos

A Converse 4-1BB and CD40 Ligand Expression Pattern Delineates Activated Regulatory T Cells (Treg) and Conventional T Cells Enabling Direct Isolation of Alloantigen-Reactive Natural Foxp3+ Treg
Anne Schoenbrunn, Marco Frentsch, Siegfried Kohler, Jacqueline Keye, Hans Dooms, Beate Moeves, Jun Dong, Christoph Loddenkemper, Joachim Seger, Peihua Wu, Chiara Romagnani, Nadine Matzmoehr, and Andreas Thiel

CORRECTIONS

Correction: Prevention of Virus-Induced Type 1 Diabetes with Antibiotic Therapy
Naoko Hara, Aimon K. Alkanani, Diana Ir, Charles E. Robertson, Brandie D. Wagner, Daniel N. Frank, and Danny Zipris

Correction: Interaction of Ets-1 with HDAC1 Represses IL-10 Expression in Th1 Cells
Youn-Sook Lee, Ho-Kyun Kim, Anupama Sahoo, Won Huang, Jae-Soon So, Ji-Sun Huang, Chang-Suk Chae, Gi-Cheon Kim, Jung-Eun Kim, Hong-Seok So, Eun Sook Huang, Roland Grenninglois, I-Cheng Ho, and Sun-Hyung Im

Correction: IL-6 Amplifier, NF-κB–Triggered Positive Feedback for IL-6 Signaling, in Grafts Is Involved in Allogeneic Rejection Responses
Jihye Lee, Tomoyuki Nakagiri, Takahiro Oto, Masaya Harada, Eiichi Morii, Yasushi Shintani, Masayoshi Inoue, Yoichiro Iwakura, Shinichiro Miyoshi, Meinoshin Okumura, Toshio Hirano, and Masaaki Murakami

AUTHOR INDEX

AD HOC REVIEWERS

AUTHOR INDEX TO VOLUME 189

SUBJECT INDEX TO VOLUME 189