This information is current as of April 13, 2017.

193 (12)

J Immunol 2014; 193:5761-6210; ;
http://www.jimmunol.org/content/193/12

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

5761 Moving Connections See article p. 5894
Rictor Goes Rogue See article p. 5924
Borrelia Blues with Bbaa1 See article p. 6050
K-Eap-ing Complement at Bay See article p. 6161
Teaming Up To Tackle SIV See article p. 6172

LETTERS TO THE EDITOR

5763 Comment on “Intestinal Inflammation Modulates Expression of the Iron-Regulating Hormone Hepcidin Depending on Erythropoietic Activity and the Commensal Microbiota”
Adam Fabisiak, Natalia Murawska, and Jakub Fichna

5763 Response to Comment on “Intestinal Inflammation Modulates Expression of the Iron-Regulating Hormone Hepcidin Depending on Erythropoietic Activity and the Commensal Microbiota”
Bobby J. Cherayil

BRIEF REVIEWS

5765 Functions of Heat Shock Proteins in Pathways of the Innate and Adaptive Immune System
Robert Julian Binder

5772 The Plasmacytoid Dendritic Cell as the Swiss Army Knife of the Immune System: Molecular Regulation of Its Multifaceted Functions
Julien J. Karrich, Loes C. M. Jachimowski, Christel H. Uittenbogaart, and Bianca Blom

CUTTING EDGE

5781 Cutting Edge: New Chimeric NOD2/TLR2 Adjuvant Drastically Increases Vaccine Immunogenicity
Vincent Pavot, Nicolas Rochereau, Julien Ressegue, Alice Guijar, Christian Genin, Gerard Tinaby, Eric Perouzel, Thierry Lioux, Fabienne Vernejoul, Bernard Verrier, and Stéphane Paul

On the cover: Possible tryptophan conformers of the mutated MelanA/Mart1 peptide (ELA15W), modeled in the ternary complex between TCR Mel5, MHC molecule HLA-A2, and wild-type peptide. The steric clashes suggest that activation of Mart1-specific T cells by the mutated peptide is allowed after structural adaptation of CDRs to fit the larger residue.
5786 Cutting Edge: Genetic Variation in TLR1 Is Associated with Pam3CSK4-Induced Effector T Cell Resistance to Regulatory T Cell Suppression
Carmen Mikacenic, Anya Schneider, Frank Radella, Jane H. Buckner, and Mark M. Wurfel

ALLERGY AND OTHER HYPERSENSITIVITIES
5791 B Cell–Intrinsic MyD88 Signaling Is Essential for IgE Responses in Lungs Exposed to Pollen Allergens
Kazufumi Matsushita and Tomohiro Yoshimoto

5801 IgG4 and IgE Transcripts in Childhood Allergic Asthma Reflect Divergent Antigen-Driven Selection
Tobias Rogosch, Sebastian Kerzel, Friederike Dey, Johanna-Josephina Wagner, Zhixin Zhang, Rolf F. Maier, and Michael Zemlin

ANTIGEN RECOGNITION AND RESPONSES
5809 Polarized Granzyme Release Is Required for Antigen-Driven Transendothelial Migration of Human Effector Memory CD4 T Cells
Thomas D. Manes and Jordan S. Pober

5816 Analysis of Relationships between Peptide/MHC Structural Features and Naive T Cell Frequency in Humans
Jean-Baptiste Reiser, François Legoux, Stéphanie Gras, Eric Trudel, Anne Chouquet, Alexandre Léger, Madalen Le Gorec, Paul Machillo, Marc Bonneville, Xavier Saulquin, and Dominique Houset

5827 CD4 T Cells Specific for a Latency-Associated γ-Herpesvirus Epitope Are Polyfunctional and Cytotoxic

AUTOIMMUNITY
5835 A Deficiency in the Prostaglandin D2 Receptor CRTH2 Exacerbates Adjuvant-Induced Joint Inflammation
Yoshiki Tsubosaka, Tatsuro Nakamura, Hiroyuki Hirai, Masatoshi Hori, Masataka Nakamura, Hiroshi Ozaki, and Takahisa Murata

5841 SLAM–SAP Signaling Promotes Differentiation of IL-17–Producing T Cells and Progression of Experimental Autoimmune Encephalomyelitis
Yu-Hsuan Huang, Kevin Tsai, Caixia Ma, Bruce A. Vallance, John J. Priatel, and Ruiung Tan

CLINICAL AND HUMAN IMMUNOLOGY
5854 Delta-like 1–Mediated Notch Signaling Enhances the In Vitro Conversion of Human Memory CD4 T Cells into FOXP3-Expressing Regulatory T Cells
Catarina Mota, Vânia Nunes-Silva, Ana R. Pires, Paula Matoso, Rui M. M. Victorino, Ana E. Sousa, and Iris Caramalho

IMMUNE REGULATION
5863 Glucocorticoid-Induced Leucine Zipper Enhanced Expression in Dendritic Cells Is Sufficient To Drive Regulatory T Cells Expansion In Vivo
Joseph Calmette, Mehdi Ellouze, Thi Tran, Soumaya Karaki, Emilie Ronin, Francis Capel, Marc Pallardy, Françoise Bacherie, Roman Krysziek, Dominique Emilie, Géraldine Schlecht-Loeff, and Véronique Godot

5873 Diet-Induced Obesity Does Not Impact the Generation and Maintenance of Primary Memory CD8 T Cells
Shaniya H. Khan, Emily A. Hemann, Kevin L. Legge, Lyse A. Norian, and Vladimir P. Badovinac

5883 Pig Skin Includes Dendritic Cell Subsets Transcriptomically Related to Human CD1a and CD14 Dendritic Cells Presenting Different Migrating Behaviors and T Cell Activation Capacities
Florian Marquet, Thien-Phong Vu Manh, Pauline Maisonasse, Jamila Elhouzzi-Younes, Céline Urien, Edouig Bouguyon, Luc Jouneau, Michael Bourge, Guélle Simon, Angel Esquerra, Jérôme Leocardonne, Michel Bonneau, Marc Dalod, Isabelle Schwartz-Cornil, and Nicolas Bertho

5894 CD28–CD80 Interactions Control Regulatory T Cell Motility and Immunological Synapse Formation
Timothy J. Thauland, Yoshinobu Koguchi, Michael L. Dustin, and David C. Parker
A Novel Mechanism of B Cell–Mediated Immune Suppression through CD73 Expression and Adenosine Production
Hiroaki Kaku, Kai Fan Cheng, Yousef Al-Abed, and Thomas L. Rothstein

TCR Signaling Events Are Required for Maintaining CD4 Regulatory T Cell Numbers and Suppressive Capacities in the Periphery
Arnaud Delpoux, Philippe Yakonowsky, Aurélie Durand, Céline Charvet, Michael Valente, Arnaud Pommier, Nelly Bonilla, Bruno Martin, Cédric Auffray, and Bruno Lucas

Rictor Negatively Regulates High-Affinity Receptors for IgE-Induced Mast Cell Degranulation
Daniel Smrz, Glenn Cruse, Michael A. Bean, Arnold Kirshenbaum, Dean D. Metcalfe, and Alasdair M. Gilfillan

Histone Deacetylase Inhibitors Upregulate B Cell microRNAs That Silence AID and Blimp-1 Expression for Epigenetic Modulation of Antibody and Autoantibody Responses
Clayton A. White, Egest J. Pone, Tonika Lam, Connie Tat, Ken L. Hayama, Guideng Li, Hong Zan, and Paolo Casali

IMMUNE SYSTEM DEVELOPMENT

Chemokine-Mediated B Cell Trafficking during Early Rabbit GALT Development
Shi-Kang Zhai, Veronica V. Volgina, Periannan Sethupathi, Katherine L. Knight, and Dennis K. Lanning

The Thymic Microenvironment Differentially Regulates Development and Trafficking of Invariant NKT Cell Sublineages
Michael B. Drennan, Srinath Govindarajan, Katelijne De Wilde, Susan M. Schlenner, Carl Ware, Sergei Nedospasov, Hans-Reimer Rodewald, and Dirk Elewaut

Gene Targeting RhoA Reveals Its Essential Role in Coordinating Mitochondrial Function and Thymocyte Development

A Signal Integration Model of Thymic Selection and Natural Regulatory T Cell Commitment
Sahamoddin Khailaie, Philippe A. Robert, Aras Toker, Jochen Huehn, and Michael Meyer-Hermann

Notch3 Activation Is Sufficient but Not Required for Inducing Human T-Lineage Specification
Elis Waegemans, Inge Van de Walle, Jelle De Medts, Magda De Snedt, Tessa Kerre, Bart Vandekerckhove, Georges Leclercq, Tao Wang, Jean Plum, and Tom Taghon

Immature Recent Thymic Emigrants Are Eliminated by Complement
Fan-Chi Hsu, Michael J. Shapiro, Meibo W. Chen, Douglas C. McWilliams, Lauren M. Seaburg, Sarah N. Tangen, and Virginia Smith Shapiro

IMMUNOGENETICS

Definition of the Cattle Killer Cell Ig–like Receptor Gene Family: Comparison with Aurochs and Human Counterparts
Nicholas D. Sanderson, Paul J. Norman, Lisbeth A. Guethlein, Shirley A. Ellis, Christina Williams, Matthew Breen, Steven D. E. Park, David A. Mager, Farbod Babrzadeh, Andrew Warry, Mick Watson, Daniel G. Bradley, David E. MacHugh, Peter Parham, and John A. Hammond

IMMUNOTHERAPY AND VACCINES

The Specialized Proresolving Mediator 17-HDHA Enhances the Antibody-Mediated Immune Response against Influenza Virus: A New Class of Adjuvant?
Sesquile Ramon, Steven F. Baker, Julie M. Sahler, Nina Kim, Eric A. Feldsott, Charles N. Serhan, Luis Martinez-Sobrido, David J. Topham, and Richard P. Phipps

INFECTIOUS DISEASE AND HOST RESPONSE

CD4+ T Cell Epitopes of FliC Conserved between Strains of Burkholderia: Implications for Vaccines against Melioidosis and Cepacia Complex in Cystic Fibrosis
Borrelia burgdorferi Arthritis–Associated Locus Bbta1 Regulates Lyme Arthritis and K/B×N Serum Transfer Arthritis through Intrinsic Control of Type I IFN Production

Ying Ma, Kenneth K. C. Bramwell, Robert B. Lochhead, Jackie K. Paquette, James F. Zachary, John H. Weis, Cory Teuscher, and Janis J. Weis

Viral MHC Class I–like Molecule Allows Evasion of NK Cell Effector Responses In Vivo

Michal Pyzik, Anne A. Dumaine, Benoît Charbonneau, Nasima Fodil-Cornu, Stipe Fonjic, and Silvia M. Vidal

Infiltrating Regulatory B Cells Control Neuroinflammation following Viral Brain Infection

Manohar B. Mumal, Shuxian Hu, Scott J. Schachtele, and James R. Lokensgard

Lipocalin 2 Impacts Selective Pressure on Bacterial Growth in the Bladder and Is Elevated in Women with Urinary Tract Infection


INNATE IMMUNITY AND INFLAMMATION

TRAM Is Required for TLR2 Endosomal Signaling to Type I IFN Induction

Julianne Stack, Sarah L. Doyle, Dymnna J. Connolly, Line S. Reinert, Kate M. O’Keeffe, Rachel M. McLoughlin, Søren R. Paludan, and Andrew G. Bowie

Intestinal Expression of Fas and Fas Ligand Is Upregulated by Bacterial Signaling through TLR4 and TLR5, with Activation of Fas Modulating Intestinal TLR-Mediated Inflammation

Philana Fernandes, Charlotte O’Donnell, Caetronia Lyons, Jonathan Keane, Tim Regan, Stephen O’Brien, Padraic Fallon, Elizabeth Brint, and Aileen Houston

PARP-1 Mediates LPS-Induced HMGB1 Release by Macrophages through Regulation of HMGB1 Acetylation

Zhiyong Yang, Li Li, Lijuan Chen, Weiwei Yuan, Liming Dong, Yushun Zhang, Heshui Wu, and Chunyou Wang

STING-Mediated DNA Sensing Promotes Antitumor and Autoimmune Responses to Dying Cells

Jared Klarquist, Cassandra M. Henwie, Maria A. Lehn, Rachel A. Reboudet, Sonia Feau, and Edith M. Janssen

Chloroquine Promotes IL-17 Production by CD4+ T Cells via p38-Dependent IL-23 Release by Monocyte-Derived Langerhans-like Cells

André Said, Stephanie Bock, Trim Lajqi, Gerrit Müller, and Günther Weindl

MOLECULAR AND STRUCTURAL IMMUNOLOGY

CCAAT/Enhancer-Binding Protein α Negatively Regulates IFN-γ Expression in T Cells

Shinya Tanaka, Kentaro Tanaka, Fay Magnuson, Yeonieok Chung, Gustavo J. Martinez, Yi-hong Wang, Roza I. Nurieva, Tomohiro Kurosaki, and Chen Dong

The Extracellular Adherence Protein from Staphylococcus aureus Inhibits the Classical and Lectin Pathways of Complement by Blocking Formation of the C3 Proconvertase

Jordan L. Woehl, Daphne A. C. Stapels, Brandon L. Garcia, Kazra X. Ramyar, Andrew Keightley, Maartje Ruyken, Marta Syriga, Georgia Sfyroera, Alexander B. Weber, Michal Zolkiewski, Daniel Ricklin, John D. Lambris, Suzan H. M. Rooijakkers, and Brian V. Geisbrecht

MUCOSAL IMMUNOLOGY

Antibody to the gp120 V1/V2 Loops and CD4+ and CD8+ T Cell Responses in Protection from SIVmac251 Vaginal Acquisition and Persistent Viremia

TUMOR IMMUNOLOGY

The Absence or Overexpression of IL-15 Drastically Alters Breast Cancer Metastasis via Effects on NK Cells, CD4 T Cells, and Macrophages
Amy Gillgrass, Navkiran Gill, Artem Babian, and Ali A. Ashkar

NK Cells with KIR2DS2 Immunogenotype Have a Functional Activation Advantage To Efficiently Kill Glioblastoma and Prolong Animal Survival
Andrea Gras Navarro, Justyna Konicz, Lina Leiss, Mateusz Zelkowski, Agnete Engelsen, Øystein Bruserud, Jacques Zimmer, Per Øyvind Enger, and Martha Chekenya

CORRECTIONS

Correction: Transcriptional Characterization of the T Cell Population within the Salmonid Interbranchial Lymphoid Tissue
Ida Bergva Aas, Lars Austbø, Melanie König, Mohasina Syed, Knut Falk, Ivar Hordvik, and Erling O. Koppang

Correction: Th17 Cells Contribute to Viral Replication in Coxsackievirus B3-Induced Acute Viral Myocarditis
Jing Yuan, Miao Yu, Qiong-Wen Lin, Ai-Lin Cao, Xian Yu, Ji-Hua Dong, Jin-Ping Wang, Jing-Hui Zhang, Min Wang, He-Ping Guo, Xiang Cheng, and Yu-Hua Liao

Correction: Human CD141+ Dendritic Cells Induce CD4+ T Cells To Produce Type 2 Cytokines

AUTHOR INDEX

AD HOC REVIEWERS

AUTHOR INDEX TO VOLUME 193