This information is current as of June 29, 2021.

**Why The JI?** Submit online.

- **Rapid Reviews! 30 days** from submission to initial decision
- **No Triage!** Every submission reviewed by practicing scientists
- **Fast Publication!** 4 weeks from acceptance to publication

*average

**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
2889  IN THIS ISSUE

LETTERS TO THE EDITOR

2891  Comment on “Direct Hematological Toxicity and Illegitimate Chromosomal Recombination Caused by the Systemic Activation of CreERT2”
Anja Uhmann, Kai Dittmann, Jürgen Wienands, and Heidi Hahn

2891  Response to Comment on “Direct Hematological Toxicity and Illegitimate Chromosomal Recombination Caused by the Systemic Activation of CreERT2”
Motoko Yanagita, Atsuko Higashi, Tomokatsu Ikawa, Masamichi Muramatsu, Aris N. Economides, and Hiroshi Kawamoto

PILLARS OF IMMUNOLOGY

2893  Where the Confusion Began: Cloning the First Chemokine Receptors
Barrett J. Rollins

William E. Holmes, James Lee, Wun-Jing Kuang, Glenn C. Rice, and William I. Wood

2898  Pillars Article: Cloning of Complementary DNA Encoding a Functional Human Interleukin-8 Receptor.
Phillip M. Murphy and H. Lee Tiffany

BRIEF REVIEWS

2903  CD4-CD8 Lineage Differentiation: Thpok-ing into the Nucleus
Lie Wang and Rémy Bosselut

CUTTING EDGE

2911  Cutting Edge: IL-15-Independent NK Cell Response to Mouse Cytomegalovirus Infection
Joseph C. Sun, Averil Ma, and Lewis L. Lanier

On the cover: Modeled pocket 6 of HLA-DRB1*0901 (shown with p6Lys in foreground), uniquely accommodates a wide range of residues (acidic, aliphatic, polar, and basic), due to the arrangement of three acidic and two basic residues (shown in stick form). β9Lys swings into this pocket although normally found pointing into neighboring pocket 9. James, E. A., A. K. Moustakas, J. Bui, R. Nouv, G. K. Papadopoulos, and W. W. Kwok. 2009. The binding of antigenic peptides to HLA-DR is influenced by interactions between pocket 6 and pocket 9. J. Immunol. 183: 3249–3258.
Type I Interferon (IFNα) Acts Directly on Human Memory CD4+ T Cells Altering Their Response to Antigen
Kathleen M. E. Gallagher, Sarah Lauder, Ian W. Rees, Awen M. Gallimore, and Andrew J. Godkin

C3 Promotes Expansion of CD8+ and CD4+ T Cells in a Listeria monocytogenes Infection
Yumi Nakayama, Shin-Il Kim, Eui Ho Kim, John D. Lambris, Matyas Sandor, and M. Suresh

IFN-γ, as Secreted during an Alloresponse, Induces Differentiation of Monocytes into Tolerogenic Dendritic Cells, Resulting in FoxP3+ Regulatory T Cell Promotion
Assia Eljaafari, Yin-Ping Li, and Pierre Miossec

Superantigen-Activated Regulatory T Cells Inhibit the Migration of Innate Immune Cells and the Differentiation of Naive T Cells
Yakup Tanriver, Alfonso Martín-Fontecha, Kalacheley Ratnasothy, Giovanna Lombardi, and Robert Lechler

High Frequencies of Functionally Competent Circulating Tax-Specific CD8+ T Cells in Human T Lymphotropic Virus Type 2 Infection
André L. A. Oliveira, Hitoshi Hayakawa, Doris Schor, Ana Claudia C. B. Leite, Otávio M. Epindola, Allison Waters, Jonathan Dean, Derek G. Doherty, Abelardo Q.-C. Araújo, and William W. Hall

Roles of the TRAF2/3 Binding Site in Differential B Cell Signaling by CD40 and Its Viral Oncogenic Mimic, LMP1
John P. Graham, Carissa R. Moore, and Gail A. Bishop

Antigen Receptor Signals Rescue B Cells from TLR Tolerance
Jayakumar S. Poovassery, Tony J. Vanden Bush, and Gail A. Bishop

TLR Triggering on Tolerogenic Dendritic Cells Results in TLR2 Up-Regulation and a Reduced Proinflammatory Immune Program
Sonia Chamorro, Juan J. Garcia-Vallejo, Wendy W. J. Unger, Rosette J. Fernandes, Sven C. M. Bruijns, Sandra Laban, Bart O. Roep, Bert A. ’t Hart, and Yvette van Kooyk

Jagged1 on Dendritic Cells and Notch on CD4+ T Cells Initiate Lung Allergic Responsiveness by Inducing IL-4 Production
Masakazu Okamoto, Hiroyuki Matsuda, Anthony Joetham, Joseph J. Lucas, Joanne Domenico, Koji Yasutomo, Katsuyuki Takeda, and Erwin W. Gelfand

Survival and Migration of Human Dendritic Cells Are Regulated by an IFN-α-Inducible Axl/Gas6 Pathway
Sara Sutera, Tiziana Fraone, Tiziana Muso, Paola Cappello, Silvia Rossi, Daniele Pierobon, Zane Paus, Silvia Bufone-Paus, and Mineola Giovarelli

Mast Cells Down-Regulate CD4+CD25+ T Regulatory Cell Suppressor Function via Histamine H1 Receptor Interaction
Nicholas A. Forward, Suzanne J. Furlong, Yongjun Yang, Tong-Jun Lin, and David W. Hoskin

The Gli3 Transcription Factor Expressed in the Thymus Stroma Controls Thymocyte Negative Selection Via Hedgehog-Dependent and -Independent Mechanisms
Ariadne L. Hager-Theodorides, Anna L. Furmanski, Susan E. Ross, Susan V. Outram, Nicola J. Rowbotham, and Tessa Crompton

Basophils Can Directly Present or Cross-Present Antigen to CD8 Lymphocytes and Alter CD8 T Cell Differentiation into IL-10-Producing Phenotypes
Sohee Kim, Tao Shen, and Booki Min

Inhibition of Thymic Adipogenesis by Caloric Restriction Is Coupled with Reduction in Age-Related Thymic Involution
Hyunwun Yang, Yun-Hee Youm, and Vishwa Deep Dixit
IFN Regulatory Factor 8 Regulates MDM2 in Germinal Center B Cells
Jeff X. Zhou, Chang Hoon Lee, Chen Feng Qi, Hongsheng Wang, Zahreh Naghashfar, Sadia Abbasi, and Herbert C. Morse III

In Vivo Sensitized and In Vitro Activated B Cells Mediate Tumor Regression in Cancer Adoptive Immunotherapy
Qiao Li, Seagal Teitz-Tennenbaum, Elizabeth J. Donald, Mu Li, and Alfred E. Chang

Elucidation of CXCR7-Mediated Signaling Events and Inhibition of CXCR4-Mediated Tumor Cell Transendothelial Migration by CXCR7 Ligands

X-linked Foxp3 (Scurfy) Mutation Dominantly Inhibits Submandibular Gland Development and Inflammation Respectively through Adaptive and Innate Immune Mechanisms
Rahul Sharma, Umesh S. Deshmukh, Lingjie Zheng, Shu Man Fu, and Shyr-Te Ju

Tissue-Specific Homing and Expansion of Donor NK Cells in Allogeneic Bone Marrow Transplantation
Janelle A. Olson, Robert Zeiser, Andreas Beilhack, Joshua J. Goldman, and Robert S. Negrin

Novel Reporter Mouse Reveals Constitutive and Inflammatory Expression of IFN-β In Vivo
Stefan Lienenklaus, Marius Cornescu, Natalia Zietara, Marcin Lyszczewicz, Nelson Gehara, Jadwiga Jabłońska, Frank Edenhofer, Klaus Rajewsky, Dunja Bruder, Martin Hafner, Peter Stacheli, and Siegfried Weiss

Activation-Induced Cytidine Deaminase Expression and Activity in the Absence of Germinal Centers: Insights into Hyper-IgM Syndrome
Matayuki Kasaoka, Dongmei Liao, Kiyong Yang, Sallie D. Allgood, Marc C. Levesque, Garnett Kelsoe, and Yoshihiro Ueda

MOLeCULAR AND STRUCTURAL IMMUNOiLOGY

The Binding of Antigenic Peptides to HLA-DR Is Influenced by Interactions between Pocket 6 and Pocket 9
Eddie A. James, Antonis K. Moustakas, John Bui, Randi Nouv, George K. Papadopoulos, and William W. Kuok

Peroxisome Proliferator-Activated Receptor γ Agonist Down-Regulates IL-17 Expression in a Murine Model of Allergic Airway Inflammation
Seoung Ju Park, Kyung Sun Lee, So Ri Kim, Kyung Hoon Min, Yeong Hun Choe, Hee Moon, Han Jung Chae, Wan Hee Yoo, and Yong Chul Lee

Phosphorylation of Nur77 by the MEK-ERK-RSK Cascade Induces Mitochondrial Translocation and Apoptosis in T Cells
Aibo Wang, Jonathan Rud, Chris M. Olson Jr., Juan Anguita, and Barbara A. Osborne

Membrane-Bound Fas Ligand Requires RIP1 for Efficient Activation of Caspase-8 within the Death-Inducing Signaling Complex
Michael J. Morgan, You-Sun Kim, and Zheng-gang Liu

IMMUNOGeneTICS

Ornithorhynchus anatinus (Platypus) Links the Evolution of Immunoglobulin Genes in Eutherian Mammals and Nonmammalian Tetrapods
Yaofeng Zhao, Haiting Cui, Camilla M. Whittington, Zhiguo Wei, Xiaofeng Zhang, Ziding Zhang, Li Yu, Liming Ren, Xiaoxiang Hu, Yaping Zhang, Lars Hellman, Katherine Belov, Ning Li, and Lennart Hammarström

HOST DEFENSE

Original Antigenic Sin Responses to Influenza Viruses
Jin Hyang Kim, Ioanna Skountzou, Richard Compani, and Joshy Jacob
NADPH Oxidase NOX2 Mediates Rapid Cellular Oxidation following ATP Stimulation of Endotoxin-Primed Macrophages
Samantha F. Moore and Amanda B. MacKenzie

Neutrophils Sequestered in the Liver Suppress the Proinflammatory Response of Kupffer Cells to Systemic Bacterial Infection
Martin Holub, Chao-Wen Cheng, Stephanie Mott, Philip Wintermeyer, Nico van Rooijen, and Stephen H. Gregory

Genetic Control of Severe Egg-Induced Immunopathology and IL-17 Production in Murine Schistosomiasis
Patrick M. Smith, Mara G. Shainheit, Lindsey E. Bazzone, Laura I. Rutitzky, Alexander Poltorak, and Miguel J. Stadecker

IL-12p40 and IL-18 Play Pivotal Roles in Orchestrating the Cell-Mediated Immune Response to a Poxvirus Infection
Yang Wang, Geeta Chaudhri, Ronald J. Jackson, and Gunasegaram Karpiah

CXCR2-Dependent Mucosal Neutrophil Influx Protects against Colitis-Associated Diarrhea Caused by an Attaching/Effacing Bacterial Pathogen
Martina E. Spehlmann, Sara M. Dunn, Petr Hruza, Elaine Hanson, Declan F. McCoile, and Lars Eckmann

Processing and Presentation of Variant Surface Glycoprotein Molecules to T Cells in African Trypanosomiasis
Taylor R. Dagenais, Bailey E. Freeman, Karen P. Demick, Donna M. Paulnock, and John M. Mansfield

Sequential, Ordered Acquisition of Antibodies to Plasmodium falciparum Erythrocyte Membrane Protein 1 Domains

Memory-Like CD8+ T Cells Generated during Homeostatic Proliferation Defer to Antigen-Experienced Memory Cells
Kitty P. Cheung, Edward Yang, and Ananda W. Goldrath

Selective Expansion of HIV-1 Envelope Glycoprotein-Specific B Cell Subsets Recognizing Distinct Structural Elements Following Immunization
Pia Dosenovic, Bimal Chakrabarti, Martina Soldemo, Iyadh Douagi, Mattias N. E. Forsell, Yuxing Li, Adhuna Phogat, Staffan Paulie, James Hoxie, Richard T. Wyatt, and Gunilla B. Karlsson Hedestam

12/15-Lipoxygenase Counteracts Inflammation and Tissue Damage in Arthritis
Gerhard Krönke, Julia Katzenbeiser, Stefan Uderhards, Mario M. Zais, Carina Scholteyser, Gernot Schabauer, Alexander Zarbock, Marije I. Koenders, Roland Acmann, Jochen Zwerner, Hans W. Baenckler, Wim van den Berg, Reinhard E. Voll, Hartmut Kühn, Leo A. B. Joosten, and Georg Schett

GM-CSF Regulates Fusion of Mononuclear Osteoclasts into Bone-Resorbing Osteoclasts by Activating the Ras/ERK Pathway
Myung Su Lee, Hun Soo Kim, Jeong-Tae Yeon, Sik-Won Choi, Churl Hong Chun, Han Bok Kuok, and Jaemin Ob

A TLR2 Agonist in German Cockroach Frass Activates MMP-9 Release and Is Protective against Allergic Inflammation in Mice
Kristen Page, John R. Ledford, Ping Zhou, and Marsha Wills-Karp

Complement Protease MASP-1 Activates Human Endothelial Cells: PAR4 Activation Is a Link between Complement and Endothelial Function
Márton Megyeri, Veronika Makó, László Beinrohr, Zoltán Doleschall, Zoltán Prohászka, László Cervenak, Péter Závodszky, and Péter Gál
IL-10 Is a Negative Regulatory Factor of CAWS-Vasculitis in CBA/J Mice as Assessed by Comparison with Bruton's Tyrosine Kinase-Deficient CBA/N Mice
Noriko N. Miura, Motohiko Komai, Yoshiyuki Adachi, Naoki Osada, Yosuke Kameoka, Kazuo Suzuki, and Naohito Ohno

Differential Activation and Regulation of CXCR1 and CXCR2 by CXCL8 Monomer and Dimer
Mohd W. Nasser, Sandeep K. Raghuwanshi, Delores J. Grant, Venkatakrishna R. Jala, Krishna Rajaratnam, and Ricardo M. Richardson

Identification of Human Cathepsin G As a Functional Target of Boswellic Acids from the Anti-Inflammatory Remedy Frankincense
Lars Tauch, Arne Henkel, Ulf Siemoneit, Daniel Pockel, Nicole Kather, Lutz Franke, Bettina Hofmann, Gisbert Schneider, Carlo Angioni, Gerd Geisslinger, Carsten Skarke, Wolfgang Holtmeier, Tobias Beckhaus, Michael Karas, Johann Jauch, and Oliver Werz

Impaired Lung Dendritic Cell Migration and T Cell Stimulation Induced by Immunostimulatory Oligonucleotides Contribute to Reduced Allergic Airway Inflammation
Hannelore Constabel, Metodi V. Stankov, Christina Hartwig, Thomas Tschernig, and Georg M. N. Behrens

Targeting Gut T Cell Ca\(^{2+}\) Release-Activated Ca\(^{2+}\) Channels Inhibits T Cell Cytokine Production and T-Box Transcription Factor T-Bet in Inflammatory Bowel Disease

Monocyte Chemoattractant Protein-1 (MCP-1), Not MCP-3, Is the Primary Chemokine Required for Monocyte Recruitment in Mouse Peritonitis Induced with Thioglycollate or Zymosan A
Munehisa Takabaishi, Carole Galligan, Lino Tessarollo, and Teizo Yoshimura

Lymphocytes in the Development of Lung Inflammation: A Role for Regulatory CD4\(^{+}\) T Cells in Indirect Pulmonary Lung Injury
Fabienne Venet, Chun-Shiang Chung, Xin Huang, Joanne Lomas-Neira, Yaping Chen, and Alfred Ayala

CLINICAL IMMUNOLOGY

Stimulatory and Inhibitory Killer Ig-Like Receptor Molecules Are Expressed and Functional on Lupus T Cells
Dhiman Basu, Ying Liu, Ailing Wu, Suchna Yarlagadda, Gabriela J. Gorelik, Mariana J. Kaplan, Anura Hewagama, Robert C. Hinderer, Faith M. Strickland, and Bruce C. Richardson

\(\gamma\)-Aminobutyric Acid Transporter 1 Negatively Regulates T Cell Activation and Survival through Protein Kinase C-Dependent Signaling Pathways
Ying Wang, Qingqiong Luo, Yan Xu, Dechun Feng, Jian Fei, Qi Cheng, and Lingyun Xu

Mannose-Binding Lectin (MBL) Substitution: Recovery of Opsonic Function In Vivo Lags behind MBL Serum Levels

Genetic Complementation Results in Augmented Autoantibody Responses to Lupus-Associated Antigens
Davis L. Sim, Harini Bagavant, Yogesh M. Scindia, Yan Ge, Felicia Gaskin, Shu Man Fu, and Umesh S. Deshmukh

Autoantibodies against Complement C1q Specifically Target C1q Bound on Early Apoptotic Cells
Cornelia Bigler, Monica Schaller, Iryna Perabud, Michael Osthoff, and Marten Trendelenburg
HLA-DR Alleles in Amyloid β-Peptide Autoimmunity: A Highly Immunogenic Role for the DRB1*1501 Allele
Victor Zota, Anna Nemirovsky, Rona Baron, Yair Fisher, Dennis J. Selkoe, Daniel M. Altmann, Howard L. Weiner, and Alon Monsonego

HLA-DQB1*0602 Determines Disease Susceptibility in a New “Humanized” Multiple Sclerosis Model in HLA-DR15 (DRB1*1501;DQB1*0602) Transgenic Mice
Nathali Kaushansky, Daniel M. Altmann, Stephanie Ascough, Chella S. David, Hans Lassmann, and Avraham Ben-Nun

The MHC Haplotype H2b Converts Two Pure Nonlupus Mouse Strains to Producers of Antinuclear Antibodies
Kristian Hannestad and Helge Scott

CORRECTIONS

AUTHOR INDEX