



A single guide about Immunology



Download
Guide



180 (11)

J Immunol 2008; 180:7053-7775; ;
<http://www.jimmunol.org/content/180/11>

This information is current as
of November 16, 2019.

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>

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.



7053 **IN THIS ISSUE****PILLARS OF IMMUNOLOGY**

- 7055 Wu and Kabat 1970: A Transforming View of Antibody Diversity
Leroy E. Hood

- 7057 Pillars Article: An Analysis of the Sequences of the Variable Regions of Bence Jones Proteins and Myeloma Light Chains and Their Implications for Antibody Complementarity. *J. Exp. Med.* 1970. 132: 211–250.
Tai Te Wu and Elvin A. Kabat

CUTTING EDGE

- 7097 Cutting Edge: IL-21 Is Not Essential for Th17 Differentiation or Experimental Autoimmune Encephalomyelitis
Jonathan M. Coquet, Sumone Chakravarti, Mark J. Smyth, and Dale I. Godfrey

- 7102 Cutting Edge: Soluble IL-6R Is Produced by IL-6R Ectodomain Shedding in Activated CD4 T Cells
Eva M. Briso, Oliver Dienz, and Mercedes Rincon

- 7107 Cutting Edge: K63-Linked Polyubiquitination of NEMO Modulates TLR Signaling and Inflammation In Vivo
Chang-Yuan Ni, Zhao-Hui Wu, William C. Florence, Vrajesh V. Parekh, Maria Pia Arrate, Steven Pierce, Brock Schweitzer, Luc Van Kaer, Sebastian Joyce, Shigeki Miyamoto, Dean W. Ballard, and Eugene M. Oltz

- 7112 Cutting Edge: Foxp3⁺CD4⁺CD25⁺ Regulatory T Cells Induced by IL-2 and TGF- β Are Resistant to Th17 Conversion by IL-6
Song Guo Zheng, Juhua Wang, and David A. Horwitz

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 7117 Plasticity of Regulatory T Cells: Subversion of Suppressive Function and Conversion to Enhancement of Lung Allergic Responses
Anthony Joetham, Shigeki Matsubara, Masakazu Okamoto, Katsuyuki Takeda, Nobuaki Miyahara, Azzeddine Dakhama, and Erwin W. Gelfand

On the cover: Up-regulation of tissue transglutaminase (TG2) protein and activity in human bronchial epithelial 16HBE cells after specific inhibition of the cystic fibrosis transmembrane conductance regulator (CFTR). The merged image of confocal microscopy shows TG2 protein (green) and TG2 activity (blue). Merge is indicated by overlay of individual channels (cyan). Maiuri, L., A. Luciani, I. Giardin, V. Raia, V. R. Vilella, M. D'Apolito, M. Pettoello-Mantovani, S. Guido, C. Ciacci, M. Cimmino, O. N. Cexus, M. Londei, and S. Quarantino. 2008. Tissue transglutaminase activation modulates inflammation in cystic fibrosis via PPAR γ down-regulation. *J. Immunol.* 180: 7697-7705.

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-3407A, 9650 Rockville Pike, Bethesda, MD 20814-3998. Copyright © 2008 by The American Association of Immunologists, Inc.

- 7125 Small Interfering RNAs Induce Macrophage Migration Inhibitory Factor Production and Proliferation in Breast Cancer Cells via a Double-Stranded RNA-Dependent Protein Kinase-Dependent Mechanism
Michelle E. Armstrong, Michael Gantier, Lili Li, Wen Y. Chung, Amanda McCann, John A. Baugh, and Seamas C. Donnelly
- 7134 TLR Ligand-Induced Type I IFNs Affect Thymopoiesis
Marie-Laurence Baron, Dominique Gauchat, Ross La Motte-Mohs, Nadia Kettaf, Ali Abdallah, Thomas Michiels, Juan-Carlos Zúñiga-Pflücker, and Rafick-Pierre Sékaly
- 7147 P2X₇ Receptor Differentially Couples to Distinct Release Pathways for IL-1 β in Mouse Macrophage
Pablo Pelegrin, Consuelo Barroso-Gutierrez, and Annmarie Surprenant
- 7158 Differential Effects of the Type I Interferons α_4 , β , and ϵ on Antiviral Activity and Vaccine Efficacy
Stephanie L. Day, Ian A. Ramshaw, Alistair J. Ramsay, and Charani Ranasinghe
- 7167 Differential Regulation of Antigen-Specific CD8⁺ T Cell Responses by IL-12p40 in a Dose-Dependent Manner
Doo-Jin Kim, Je-In Youn, Sang-Hwan Seo, Hyun-Tak Jin, and Young-Chul Sung
- 7175 Tumor-Secreted Lactic Acid Promotes IL-23/IL-17 Proinflammatory Pathway
Hiroaki Shime, Masahiko Yabu, Takashi Akazawa, Ken Kodama, Misako Matsumoto, Tsukasa Seya, and Norimitsu Inoue
- 7184 Both Radioresistant and Hemopoietic Cells Promote Innate and Adaptive Immune Responses to Flagellin
Catherine J. Sanders, Daniel A. Moore, III, Ifor R. Williams, and Andrew T. Gewirtz
- 7193 Dissociation between Epitope Hierarchy and Immunoprevalence in CD8 Responses to Vaccinia Virus Western Reserve
Carla Oseroff, Bjoern Peters, Valerie Pasquetto, Magdalini Moutaftsi, John Sidney, Vijay Panchanathan, David C. Tschärke, Bernard Maillere, Howard Grey, and Alessandro Sette
- 7203 A Critical Precursor Frequency of Donor-Reactive CD4⁺ T Cell Help Is Required for CD8⁺ T Cell-Mediated CD28/CD154-Independent Rejection
Mandy L. Ford, Maylene E. Wagener, Samantha S. Hanna, Thomas C. Pearson, Allan D. Kirk, and Christian P. Larsen
- 7212 Effect of A_{2B} Adenosine Receptor Gene Ablation on Proinflammatory Adenosine Signaling in Mast Cells
Sergey Ryzhov, Rinat Zaynagetdinov, Anna E. Goldstein, Sergey V. Novitskiy, Mikhail M. Dikov, Michael R. Blackburn, Italo Biaggioni, and Igor Feoktistov
- 7221 Late Expression of Granulysin by Microbicidal CD4⁺ T Cells Requires PI3K- and STAT5-Dependent Expression of IL-2R β That Is Defective in HIV-Infected Patients
Chun Fu Zheng, Gareth J. Jones, Meiqing Shi, Jeremy C. D. Wiseman, Kaleb J. Marr, Byron M. Berenger, Shaunna M. Huston, M. John Gill, Alan M. Krensky, Paul Kubes, and Christopher H. Mody
- 7230 Kinetics of In Vivo Proliferation and Death of Memory and Naive CD8 T Cells: Parameter Estimation Based on 5-Bromo-2'-Deoxyuridine Incorporation in Spleen, Lymph Nodes, and Bone Marrow
Elisabetta Parretta, Giuliana Casese, Angela Santoni, John Guardiola, Antonia Vecchio, and Francesca Di Rosa
- 7240 Activation of NF- κ B1 by OX40 Contributes to Antigen-Driven T Cell Expansion and Survival
Jianxun Song, Takanori So, and Michael Croft
- 7249 Human Tumor-Derived Exosomes Down-Modulate NKG2D Expression
Aled Clayton, J. Paul Mitchell, Jacquelyn Court, Seamus Linnane, Malcolm D. Mason, and Zsuzsanna Tabi
- 7259 Induction of Anergy by Antibody Blockade of TCR in Myelin Oligodendrocyte Glycoprotein-Specific Cells
Heather A. Wasserman and Brian D. Evavold
- 7265 IL-7/Anti-IL-7 mAb Complexes Restore T Cell Development and Induce Homeostatic T Cell Expansion without Lymphopenia
Onur Boyman, Chris Ramsey, David M. Kim, Jonathan Sprent, and Charles D. Surh
- 7276 IL-15 Expands Unconventional CD8 α NK1.1⁺ T Cells but Not V α 14J α 18⁺ NKT Cells
Masaki Terabe, Yutaka Tagaya, Qing Zhu, Larry Granger, Mario Roederer, Thomas A. Waldmann, and Jay A. Berzofsky

- 7287 Circulating Myeloid Dendritic Cells of Advanced Cancer Patients Result in Reduced Activation and a Biased Cytokine Profile in Invariant NKT Cells
Hans J. J. van der Vliet, Ruojie Wang, Simon C. Yue, Henry B. Koon, Steven P. Balk, and Mark A. Exley
- 7294 Regulatory CD4⁺ T Cells Are Crucial for Preventing CD8⁺ T Cell-Mediated Autoimmunity
Maud Poitrasson-Rivière, Boris Bienvenu, Armelle Le Campion, Chantal Bécourt, Bruno Martin, and Bruno Lucas
- 7305 Regulatory CD4⁺CD25⁺Foxp3⁺ T Cells Selectively Inhibit the Spontaneous Form of Lymphopenia-Induced Proliferation of Naive T Cells
Colleen J. Winstead, Joanne M. Fraser, and Alexander Khoruts
- 7318 Regulatory Role of B Cells in a Murine Model of Allergic Airway Disease
Anurag Singh, William F. Carson, IV, Eric R. Secor, Jr., Linda A. Guernsey, Richard A. Flavell, Robert B. Clark, Roger S. Thrall, and Craig M. Schramm
- 7327 Latency-Associated Peptide Identifies a Novel CD4⁺CD25⁺ Regulatory T Cell Subset with TGFβ-Mediated Function and Enhanced Suppression of Experimental Autoimmune Encephalomyelitis
Mei-Ling Chen, Bo-Shiun Yan, Yoshio Bando, Vijay K. Kuchroo, and Howard L. Weiner
- 7338 Macrophage Migration Inhibitory Factor Contributes to the Immune Escape of Ovarian Cancer by Down-Regulating NKG2D
Mathias Krockenberger, Yvonne Dombrowski, Claudia Weidler, Monika Ossadnik, Arnd Hönic, Sebastian Häusler, Heike Voigt, Jürgen C. Becker, Lin Leng, Alexander Steinle, Michael Weller, Richard Bucala, Johannes Dietl, and Jörg Wischhusen
- 7349 Bacillus Calmette-Guérin and TLR4 Agonist Prevent Cardiovascular Hypertrophy and Fibrosis by Regulating Immune Microenvironment
Yu-Ying Liu, Wen-Feng Cai, Hong-Zhen Yang, Bing Cui, Zhi-Rong Chen, Han-Zhi Liu, Jun Yan, Wen Jin, Hui-Min Yan, Bing-Mu Xin, Bin Yuan, Fang Hua, and Zhuo-Wei Hu
- 7358 Human Flt3 Is Expressed at the Hematopoietic Stem Cell and the Granulocyte/Macrophage Progenitor Stages to Maintain Cell Survival
Yoshikane Kikushige, Goichi Yoshimoto, Toshihiro Miyamoto, Tadafumi Iino, Yasuo Mori, Hiromi Iwasaki, Hiroaki Niuro, Katsuto Takenaka, Koji Nagafuji, Mine Harada, Fumihiko Ishikawa, and Koichi Akashi
- 7368 C5a and TNF-α Up-Regulate the Expression of Tissue Factor in Intra-Alveolar Neutrophils of Patients with the Acute Respiratory Distress Syndrome
Konstantinos Kambas, Maciej M. Markiewski, Ioannis A. Pneumatikos, Stavros S. Rafail, Vassiliki Theodorou, Dimitrios Konstantonis, Ioannis Kourtzelis, Michael N. Dumas, Paola Magotti, Robert A. DeAngelis, John D. Lambris, and Konstantinos D. Ritis
- 7376 Production of CCL2 by Central Nervous System Cells Regulates Development of Murine Experimental Autoimmune Encephalomyelitis through the Recruitment of TNF- and iNOS-Expressing Macrophages and Myeloid Dendritic Cells
Rukiye-Nazan E. Dogan, Adam Elhofy, and William J. Karpus
- 7385 CD43 Regulates Th2 Differentiation and Inflammation
Judy L. Cannon, Amélie Collins, Purvi D. Mody, Diwaker Balachandran, Kammi J. Henriksen, Cassandra E. Smith, Jiankun Tong, Bryan S. Clay, Stephen D. Miller, and Anne I. Sperling
- 7394 B Lymphocyte Stimulator Regulates Adaptive Immune Responses by Directly Promoting Dendritic Cell Maturation
Sook Kyung Chang, Stephen A. Mihalczik, and Diane F. Jelinek
- 7404 The Macrophage-Inducible C-Type Lectin, Mincle, Is an Essential Component of the Innate Immune Response to *Candida albicans*
Christine A. Wells, Judith A. Salvage-Jones, Xin Li, Kelly Hitchens, Suzanne Butcher, Rachael Z. Murray, Anthony G. Beckhouse, Yu-Lan-Sandra Lo, Silvia Manzanero, Christian Cobbold, Kate Schroder, Bo Ma, Sally Orr, Lauren Stewart, Daniel Lebus, Peter Sobieszczuk, David A. Hume, Jennifer Stow, Helen Blanchard, and Robert B. Ashman
- 7414 Both Th1 and Th17 Are Immunopathogenic but Differ in Other Key Biological Activities
Catherine A. Cox, Guangyu Shi, Hongen Yin, Barbara P. Vistica, Eric F. Wawrousek, Chi-Chao Chan, and Igal Gery

- 7423 Chronically Inflamed Human Tissues Are Infiltrated by Highly Differentiated Th17 Lymphocytes
Jérôme Pène, Sylvie Chevalier, Laurence Preisser, Emilie Vénéreau, Marie-Hélène Guilleux, Soufiane Ghannam, Jean-Pierre Molès, Yannic Danger, Elisa Ravon, Sabine Lesaux, Hans Yssel, and Hugues Gascan

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 7431 Differential Expression of the Human CD8 β Splice Variants and Regulation of the M-2 Isoform by Ubiquitination
Deepshi Thakral, Jessica Dobbins, Lesley Devine, and Paula B. Kavathas
- 7443 Requirement for Enhancer Specificity in Immunoglobulin Heavy Chain Locus Regulation
Igor I. Kuzin, Ludmila Bagaeva, Faith M. Young, and Andrea Bottaro
- 7451 Molecular and Immunological Characterization of a Wheat Serine Proteinase Inhibitor as a Novel Allergen in Baker's Asthma
Claudia Constantin, Santiago Quirce, Monika Grote, Alisher Touraev, Ines Swoboda, Angelika Stoecklinger, Adriano Mari, Josef Thalhamer, Erwin Heberle-Bors, and Rudolf Valenta

IMMUNOGENETICS

- 7461 The Evolution of Multiple Isotypic IgM Heavy Chain Genes in the Shark
Victor Lee, Jing Li Huang, Ming Fai Lui, Karolina Malecek, Yuko Ohta, Arne Mooers, and Ellen Hsu
- 7471 Autoimmune Disease-Associated Histamine Receptor H₁ Alleles Exhibit Differential Protein Trafficking and Cell Surface Expression
Rajkumar Noubade, Naresha Saligrama, Karen Spach, Roxana del Rio, Elizabeth P. Blankenhorn, Theodoros Kantidakis, Graeme Milligan, Mercedes Rincon, and Cory Teuscher
- 7480 Genetic Differences in Bone Marrow-Derived Lymphoid Lineages Control Susceptibility to Experimental Autoimmune Myocarditis
Haiyan S. Li, Davinna L. Ligon, Noel R. Rose, and Mehmet L. Guler

HOST DEFENSE

- 7485 Constitutive ERK MAPK Activity Regulates Macrophage ATP Production and Mitochondrial Integrity
Martha M. Monick, Linda S. Powers, Christopher W. Barrett, Sara Hinde, Alix Ashare, Dayna J. Groskreutz, Toru Nyunoya, Mitchell Coleman, Douglas R. Spitz, and Gary W. Hunninghake
- 7497 SHIP-1 Increases Early Oxidative Burst and Regulates Phagosome Maturation in Macrophages
Lynn A. Kamen, Jonathan Levinsohn, Amy Cadwallader, Susbeela Tridandapani, and Joel A. Swanson
- 7506 Detrimental Contribution of the Immuno-Inhibitor B7-H1 to Rabies Virus Encephalitis
Monique Lafon, Françoise Mégret, Sven G. Meuth, Ole Simon, Myriam L. Velandia Romero, Mireille Lafage, Lieping Chen, Lena Alexopoulou, Richard A. Flavell, Christophe Prehaud, and Heinz Wiendl
- 7516 Anthrax Lethal Toxin Enhances TNF-Induced Endothelial VCAM-1 Expression via an IFN Regulatory Factor-1-Dependent Mechanism
Jason M. Warfel and Felice D'Agnillo
- 7525 Glycoprotein-Dependent and TLR2-Independent Innate Immune Recognition of Herpes Simplex Virus-1 by Dendritic Cells
Adi Reske, Gabriele Pollara, Claude Krummenacher, David R. Katz, and Benjamin M. Chain
- 7537 *Leishmania braziliensis* Infection Induces Dendritic Cell Activation, ISG15 Transcription, and the Generation of Protective Immune Responses
Diego A. Vargas-Inchaustegui, Lijun Xin, and Lynn Soong
- 7546 Murine Bactericidal/Permeability-Increasing Protein Inhibits the Endotoxic Activity of Lipopolysaccharide and Gram-Negative Bacteria
Irene Wittmann, Marc Schönfeld, Diana Aichele, Gerhard Groer, André Gessner, and Markus Schmare
- 7553 PDL-1 Blockade Impedes T Cell Expansion and Protective Immunity Primed by Attenuated *Listeria monocytogenes*
Jared H. Rowe, Tanner M. Johanns, James M. Ertelt, and Sing Sing Way

- 7558 Multiple Nod-Like Receptors Activate Caspase 1 during *Listeria monocytogenes* Infection
Sarah E. Warren, Dat P. Mao, April E. Rodriguez, Edward A. Miao, and Alan Aderem
- 7565 Mast Cell Cathelicidin Antimicrobial Peptide Prevents Invasive Group A *Streptococcus* Infection of the Skin
Anna Di Nardo, Kenshi Yamasaki, Robert A. Dorschner, Yuping Lai, and Richard L. Gallo
- 7574 Administration of a Synthetic TLR4 Agonist Protects Mice from Pneumonic Tularemia
Annalisa Lembo, Mark Pelletier, Ravi Iyer, Michele Timko, Jan C. Dudda, T. Eoin West, Christopher B. Wilson, Adeline M. Hajjar, and Shawn J. Skerrett

INFLAMMATION

- 7582 Differential Involvement of I κ B Kinases α and β in Cytokine- and Insulin-Induced Mammalian Target of Rapamycin Activation Determined by Akt
Han C. Dan and Albert S. Baldwin
- 7590 Activity of Adenosine Receptors Type 1 Is Required for CX₃CL1-Mediated Neuroprotection and Neuromodulation in Hippocampal Neurons
Clotilde Lauro, Silvia Di Angelantonio, Raffaella Cipriani, Fabrizia Sobrero, Letizia Antonilli, Valentina Brusadin, Davide Ragozzino, and Cristina Limatola
- 7597 IL-10 Inhibits Cysteinyl Leukotriene-Induced Activation of Human Monocytes and Monocyte-Derived Dendritic Cells
Grzegorz Woszczek, Li-Yuan Chen, Sahrudaya Nagineni, and James H. Shelhamer
- 7604 Analysis of the Neuroinflammatory Response to TLR7 Stimulation in the Brain: Comparison of Multiple TLR7 and/or TLR8 Agonists
Niranjan B. Butchi, Susan Pourciau, Min Du, Tim W. Morgan, and Karin E. Peterson
- 7613 Properdin Binds to Late Apoptotic and Necrotic Cells Independently of C3b and Regulates Alternative Pathway Complement Activation
Wei Xu, Stefan P. Berger, Leendert A. Trouw, Hetty C. de Boer, Nicole Schlagwein, Chantal Mutsaers, Mohamed R. Daba, and Cees van Kooten
- 7622 Up-Regulation and Activation of Eosinophil Integrins in Blood and Airway after Segmental Lung Antigen Challenge
Mats W. Johansson, Elizabeth A. B. Kelly, William W. Busse, Nizar N. Jarjour, and Deane F. Mosher
- 7636 Anti-Inflammatory Effects of FTY720 against Viral-Induced Immunopathology: Role of Drug-Induced Conversion of T Cells to Become Foxp3⁺ Regulators
Sharvan Sehrawat and Barry T. Rouse
- 7648 Suppressive Oligodeoxynucleotides Inhibit Silica-Induced Pulmonary Inflammation
Takashi Sato, Takeshi Shimosato, W. Gregory Alvord, and Dennis M. Klinman
- 7655 Nicotine Primarily Suppresses Lung Th2 but Not Goblet Cell and Muscle Cell Responses to Allergens
Neerad C. Mishra, Jules Rir-sima-ab, Raymond J. Langley, Shashi P. Singh, Juan C. Peña-Philippides, Takeshi Koga, Seddigheh Razani-Boroujerdi, Julie Hutt, Matthew Campen, K. Chul Kim, Yohannes Tesfaigzi, and Mohan L. Sopori
- 7664 Acute Lung Injury Induced by Lipopolysaccharide Is Independent of Complement Activation
Daniel Rittirsch, Michael A. Flierl, Danielle E. Day, Brian A. Nadeau, Stephanie R. McGuire, Laszlo M. Hoesel, Kyros Ipaktchi, Firas S. Zetoune, J. Vidya Sarma, Lin Leng, Markus S. Huber-Lang, Thomas A. Neff, Richard Bucala, and Peter A. Ward

CLINICAL IMMUNOLOGY

- 7673 Preferential In Situ CD4⁺CD56⁺ T Cell Activation and Expansion within Human Glioblastoma
Allen Waziri, Brendan Killory, Alfred T. Ogden, III, Peter Canoll, Richard C. E. Anderson, Sally C. Kent, David E. Anderson, and Jeffrey N. Bruce

- 7681 Local Accumulation of FOXP3⁺ Regulatory T Cells: Evidence for an Immune Evasion Mechanism in Patients with Large Condylomata Acuminata
Yuchun Cao, Jie Zhao, Zhang Lei, Shiqian Shen, Cong Liu, Dong Li, Jihong Liu, Guan-Xin Shen, Gui-Mei Zhang, Zuo-Hua Feng, and Bo Huang
- 7687 No Advantage of Cell-Penetrating Peptides over Receptor-Specific Antibodies in Targeting Antigen to Human Dendritic Cells for Cross-Presentation
Paul J. Tacken, Ben Joosten, Anita Reddy, Dayang Wu, Annemarie Eek, Peter Laverman, Anke Kretz-Rommel, Gosse J. Adema, Ruurd Torensma, and Carl G. Figdor
- 7697 Tissue Transglutaminase Activation Modulates Inflammation in Cystic Fibrosis via PPAR γ Down-Regulation
Luigi Maiuri, Alessandro Luciani, Ida Giardino, Valeria Raia, Valeria R. Vilella, Maria D'Apolito, Massimo Pettoello-Mantovani, Stefano Guido, Carolina Ciacci, Mariano Cimmino, Olivier N. Cexus, Marco Londei, and Sonia Quarantino
- 7706 B Cell Depletion Inhibits Spontaneous Autoimmune Thyroiditis in NOD.H-2h4 Mice
Shiguang Yu, Robert Dunn, Marilyn R. Kehry, and Helen Braley-Mullen
- 7714 Factor VIII Hydrolysis Mediated by Anti-Factor VIII Autoantibodies in Acquired Hemophilia
Bharath Wootla, Suryasarathi Dasgupta, Jordan D. Dimitrov, Jagadeesh Bayry, Hervé Lévesque, Jeanne-Yvonne Borg, Annie Borel-Derlon, Desirazu N. Rao, Alain Friboulet, Srinivas V. Kaveri, and Sébastien Lacroix-Desmazes
- 7721 The Role of Rearrangement at the Second Ig Heavy Chain Locus in Maintaining B Cell Tolerance to DNA
Yang Liu, Lisa Li, and Chandra Mohan
- 7728 The Mer Receptor Tyrosine Kinase Is Required for the Loss of B Cell Tolerance in the Chronic Graft-versus-Host Disease Model of Systemic Lupus Erythematosus
Wen-Hai Shao, Robert A. Eisenberg, and Philip L. Cohen
- 7736 Human TCR That Incorporate CD3 ζ Induce Highly Preferred Pairing between TCR α and β Chains following Gene Transfer
Zsolt Sebestyén, Erik Schooten, Tamara Sals, Irene Zaldivar, Esther San José, Balbino Alarcón, Sara Bobisse, Antonio Rosato, János Szöllösi, Jan Willem Gratama, Ralph A. Willemsen, and Reno Debets
- 7747 HLA-DQ6 (DQB1*0601)-Restricted T Cells Protect against Experimental Autoimmune Encephalomyelitis in HLA-DR3.DQ6 Double-Transgenic Mice by Generating Anti-Inflammatory IFN- γ
Ashutosh Mangalam, David Luckey, Eati Basal, Marshall Behrens, Moses Rodriguez, and Chella David
- 7757 Presence of Suppressor HIV-Specific CD8⁺ T Cells Is Associated with Increased PD-1 Expression on Effector CD8⁺ T Cells
Mohamed Elrefaie, Chris A. R. Baker, Norman G. Jones, David R. Bangsberg, and Huyen Cao
- 7764 Innate Immunity Mediated by TLR5 as a Novel Antiinflammatory Target for Cystic Fibrosis Lung Disease
Christoph J. Blohmke, Rachel E. Victor, Aaron F. Hirschfeld, Isaac M. Elias, David G. Hancock, Cheryl R. Lane, A. George F. Davidson, Pearce G. Wilcox, Kelly D. Smith, Joerg Overhage, Robert E. W. Hancock, and Stuart E. Turvey
- 7774 Corrections
- 7776 Author Index