



Antibody Isotype Families

Switch natural isotype

InvivoGen



183 (7)

J Immunol 2009; 183:4143-4816; ;
<http://www.jimmunol.org/content/183/7>

This information is current as
of February 21, 2020.

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.



4143 IN THIS ISSUE

LETTERS TO THE EDITOR

- 4145 Comment on “Proteasome Regulation of ULBP1 Transcription”
Alejandro López-Soto and Segundo González
- 4145 Response to Comment on “Proteasome Regulation of ULBP1 Transcription”
Charles T. Lutz, James E. Butler, Steven R. Presnell, Huei-Wei Chan, and N. Jan Chalupny
- 4146 Comment on “The Bacterial Fermentation Product Butyrate Influences Epithelial Signaling via Reactive Oxygen Species-Mediated Changes in Cullin-1 Neddylation”
Evelyn Png, Jyk-Kuen Siak, Jamie Chew, and Louis Tong

PILLARS OF IMMUNOLOGY

- 4147 How Suppressor Cells Led to Anergy, Costimulation, and Beyond
Hélène Bour-Jordan and Jeffery A. Bluestone
- 4150 Pillars Article: Antigen Presentation by Chemically Modified Splenocytes Induces Antigen-Specific T Cell Unresponsiveness In Vitro and In Vivo. *J. Exp. Med.* 1987. 165: 302–319.
Marc K. Jenkins and Ronald H. Schwartz

BRIEF REVIEWS

- 4169 Protumor vs Antitumor Functions of IL-17
Gopal Murugaiyan and Bhaskar Saha

CUTTING EDGE

- 4177 Cutting Edge: Contribution of Lung-Resident T Cell Proliferation to the Overall Magnitude of the Antigen-Specific CD8 T Cell Response in the Lungs following Murine Influenza Virus Infection
Jodi McGill and Kevin L. Legge

On the cover: The conserved hydrogen bond network in class II MHC-peptide complexes. The binding site of DR1 is represented as a ribbon diagram and the backbone of bound peptide is shown as a stick representation. Hydrogen bonds with main chain atoms of bound peptide are shown as yellow dashed lines. Zhou, Z., K. A. Callaway, D. A. Weber, and P. E. Jensen. 2009. HLA-DM functions through a mechanism that does not require specific conserved hydrogen bonds in class II MHC-peptide complexes. *J. Immunol.* 183: 4187–4191.

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, Phone: 301-634-7197, Fax: 301-634-7829. 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>). The American Association of Immunologists, Inc., is not responsible for undeliverable issues. Replacement issues can be obtained, if available, at the regular price of single issues (see http://www.jimmunol.org/pdf/single_issue_purchase.pdf). Reprints of individual articles are available only from authors. Periodicals postage paid at Bethesda, MD 20814-3994, and at additional mailing offices. Country of origin U.S.A. Printed on acid-free recyclable paper. Postmaster: Send address changes 60 days in advance to *The Journal of Immunology*, Subscription Department, 9650 Rockville Pike, Bethesda, MD 20814-3994. Copyright © 2009 by The American Association of Immunologists, Inc.

- 4182 Cutting Edge: CD4-Independent Development of Functional FoxP3⁺ Regulatory T Cells
Céline Blache, Sahil Adriouch, Sébastien Calbo, Laurent Drouot, Sophie Dulauroy, Christophe Arnoult, Stéphanie Le Corre, Adrien Six, Michel Seman, and Olivier Boyer
- 4187 Cutting Edge: HLA-DM Functions through a Mechanism That Does Not Require Specific Conserved Hydrogen Bonds in Class II MHC-Peptide Complexes
Zemin Zhou, Kari A. Callaway, Dominique A. Weber, and Peter E. Jensen
- 4192 Cutting Edge: *Dab2* Is a FOXP3 Target Gene Required for Regulatory T Cell Function
Nitya Jain, Hai Nguyen, Randall H. Friedline, Nidhi Malhotra, Michael Brehm, Madoka Koyanagi, Mark Bix, Jonathan A. Cooper, Cynthia A. Chambers, and Joonsoo Kang

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 4197 MS4A4B Is a GITR-Associated Membrane Adapter, Expressed by Regulatory T Cells, Which Modulates T Cell Activation
Duncan Howie, Kathleen F. Nolan, Stephen Daley, Emma Butterfield, Elizabeth Adams, Hugo Garcia-Rueda, Claire Thompson, Nigel J. Saunders, Stephen P. Cobbold, Yukiko Tone, Masahide Tone, and Herman Waldmann
- 4205 Efficient Cross-Priming of Antiviral CD8⁺ T Cells by Antigen Donor Cells Is GRP94 Independent
Avital Lev, Peniel Dimberu, Suman R. Das, Jason C. Maynard, Christopher V. Nicchitta, Jack R. Bennink, and Jonathan W. Yewdell
- 4211 Sustained and NK/CD4⁺ T Cell-Dependent Efficient Prevention of Lung Metastasis Induced by Dendritic Cells Harboring Recombinant Sendai Virus
Atsushi Komaru, Yasuji Ueda, Aki Furuya, Sakura Tanaka, Kumi Yoshida, Tomonori Kato, Hiroaki Kinoh, Yui Harada, Hiroyoshi Suzuki, Makoto Inoue, Mamoru Hasegawa, Tomohiko Ichikawa, and Yoshikazu Yonemitsu
- 4220 CRTAM Confers Late-Stage Activation of CD8⁺ T Cells to Regulate Retention within Lymph Node
Arata Takeuchi, Yasushi Itoh, Akiko Takumi, Chitose Ishihara, Noriko Arase, Tadashi Yokosuka, Haruhiko Koseki, Sho Yamasaki, Yoshimi Takai, Jun Miyoshi, Kazumasa Ogasawara, and Takashi Saito
- 4229 IL-11 Regulates Autoimmune Demyelination
Blake T. Gurfein, Yueting Zhang, Carolina B. López, Azeb Tadesse Argaw, Andleeb Zameer, Thomas M. Moran, and Gareth R. John
- 4241 Negative Regulation of MAVS-Mediated Innate Immune Response by PSMA7
Yongxia Jia, Ting Song, Congwen Wei, Caifei Ni, Zirui Zheng, Quanbin Xu, Hongfang Ma, Li Li, Yanhong Zhang, Xiang He, Yang Xu, Wei Shi, and Hui Zhong
- 4249 The Toll-IL-1R Member Tir8/SIGIRR Negatively Regulates Adaptive Immunity against Kidney Grafts
Marina Noris, Paola Cassis, Nadia Azzollini, Regiane Cavinato, Daniela Cugini, Federica Casiraghi, Sistiana Aiello, Samantha Solini, Linda Cassis, Marilena Mister, Marta Todeschini, Mauro Abbate, Ariela Benigni, Piera Trionfani, Susanna Tomasoni, Caterina Mele, Cecilia Garlanda, Nadia Polentarutti, Alberto Mantovani, and Giuseppe Remuzzi
- 4261 The Immunological Impact of Genetic Drift in the B10.BR Congenic Inbred Mouse Strain
Stacey L. Fanning, Michael Y. Appel, Stephanie A. Berger, Robert Korngold, and Thea M. Friedman
- 4273 Fluid Flow Regulates Stromal Cell Organization and CCL21 Expression in a Tissue-Engineered Lymph Node Microenvironment
Alice A. Tomei, Stefanie Siegert, Mirjam R. Britschgi, Sanjiv A. Luther, and Melody A. Swartz
- 4284 Reviving Function in CD4⁺ T Cells Adapted to Persistent Systemic Antigen
Magali Noval Rivas, Kathleen Weatherly, Marc Hazzan, Benoit Vokaer, Sarah Dremier, Florence Gaudray, Michel Goldman, Isabelle Salmon, and Michel Y. Braun
- 4292 Discontinued Postnatal Thymocyte Development in Sphingosine 1-Phosphate-Lyase-Deficient Mice
Claudia Weber, Andreas Krueger, Anika Münk, Constantin Bode, Paul P. Van Veldhoven, and Markus H. Gräler
- 4302 Extracellular ATP Acting at the P2X₇ Receptor Inhibits Secretion of Soluble HLA-G from Human Monocytes
Roberta Rizzo, Davide Ferrari, Loredana Melchiorri, Marina Stignani, Sara Gulinelli, Olavio R. Baricordi, and Francesco Di Virgilio

- 4312 Reciprocal Human Dendritic Cell–Natural Killer Cell Interactions Induce Antitumor Activity Following Tumor Cell Infection by Oncolytic Reovirus
Robin J. Prestwich, Fiona Errington, Lynette P. Steele, Elizabeth J. Ilett, Ruth S. M. Morgan, Kevin J. Harrington, Hardev S. Pandha, Peter J. Selby, Richard G. Vile, and Alan A. Melcher
- 4322 Formula Feeding Skews Immune Cell Composition toward Adaptive Immunity Compared to Breastfeeding
Yvonne Andersson, Marie-Louise Hammarström, Bo Lönnnerdal, Gitte Graverholt, Helen Fält, and Olle Hernell
- 4329 Quantifying Thymic Export: Combining Models of Naive T Cell Proliferation and TCR Excision Circle Dynamics Gives an Explicit Measure of Thymic Output
Iren Bains, Rodolphe Thiébaud, Andrew J. Yates, and Robin Callard
- 4337 Quantitating T Cell Cross-Reactivity for Unrelated Peptide Antigens
Jeffrey Ishizuka, Kristie Grebe, Eugene Shenderov, Bjoern Peters, Qiongyu Chen, YanChun Peng, Lili Wang, Tao Dong, Valerie Pasquetto, Carla Oseroff, John Sidney, Heather Hickman, Vincenzo Cerundolo, Alessandro Sette, Jack R. Bennink, Andrew McMichael, and Jonathan W. Yewdell
- 4346 Induction of Alloantigen-Specific Human T Regulatory Cells by Vasoactive Intestinal Peptide
David Pozo, Per Anderson, and Elena Gonzalez-Rey
- 4360 Dynamic Development of Homing Receptor Expression and Memory Cell Differentiation of Infant CD4⁺CD25^{high} Regulatory T Cells
Hanna Grindebacke, Hanna Stenstad, Marianne Quiding-Järbrink, Jesper Waldenström, Ingegerd Adlerberth, Agnes E. Wold, and Anna Rudin
- 4371 Phosphorothioate-Modified TLR9 Ligands Protect Cancer Cells against TRAIL-Induced Apoptosis
David Chiron, Catherine Pellat-Deceunynck, Mike Maillason, Régis Bataille, and Gaëtan Jégou
- 4378 CXCR3 Directs Antigen-Specific Effector CD4⁺ T Cell Migration to the Lung During Parainfluenza Virus Infection
Jacob E. Kohlmeier, Tres Cookenham, Shannon C. Miller, Alan D. Roberts, Jan P. Christensen, Allan R. Thomsen, and David L. Woodland
- 4385 Heat Shock Protein-90 Inhibitors Increase MHC Class I-Related Chain A and B Ligand Expression on Multiple Myeloma Cells and Their Ability to Trigger NK Cell Degranulation
Cinzia Fionda, Alessandra Soriani, Giulia Malgarini, Maria Luisa Iannitto, Angela Santoni, and Marco Cippitelli
- 4395 Impaired Mast Cell Activation in Gene-Targeted Mice Lacking the Serum- and Glucocorticoid-Inducible Kinase SGK1
Malgorzata Sobiesiak, Ekaterina Shumilina, Rebecca S. Lam, Florian Wölbing, Nicole Matzner, Susanne Kaesler, Irina M. Zemtsova, Adrian Lupescu, Naima Zahir, Dietmar Kuhl, Martin Schaller, Tilo Biedermann, and Florian Lang
- 4403 Alum Induces Innate Immune Responses through Macrophage and Mast Cell Sensors, but These Sensors Are not Required for Alum to Act As an Adjuvant for Specific Immunity
Amy S. McKee, Michael W. Munks, Megan K. L. MacLeod, Courtney J. Fleenor, Nico Van Rooijen, John W. Kappler, and Philippa Marrack
- 4415 Invariant TCR Rather Than CD1d Shapes the Preferential Activities of C-Glycoside Analog against Human Versus Murine Invariant NKT Cells
Xiangming Li, Takayuki Shiratsuchi, Guangwu Chen, Paolo Dellabona, Giulia Casorati, Richard W. Franck, and Moriya Tsuji
- 4422 TLR3 Ligand Polyinosinic: Polycytidylic Acid Induces IL-17A and IL-21 Synthesis in Human Th Cells
Christian K. Holm, Charlotte C. Petersen, Malene Hvid, Line Petersen, Søren R. Paludan, Bent Deleuran, and Marianne Hokland
- 4432 Monocytes from Patients with Type 1 Diabetes Spontaneously Secrete Proinflammatory Cytokines Inducing Th17 Cells
Elizabeth M. Bradshaw, Khadir Raddassi, Wassim Elyaman, Tihamer Orban, Peter A. Gottlieb, Sally C. Kent, and David A. Hafler

- 4440 The ssRNA Genome of Human Rhinovirus Induces a Type I IFN Response but Fails to Induce Maturation in Human Monocyte-Derived Dendritic Cells
Catharina Schrauf, Stefanie Kirchberger, Otto Majdic, Maria Seyerl, Gerhard-Johann Zlabinger, Karl Manfred Stuhlmeier, Monika Sachet, Joachim Seipelt, and Johannes Stöckl
- 4449 Differentiation-Associated Loss of Ryanodine Receptors: A Strategy Adopted by Monocytes/Macrophages to Prevent the DNA Single-Strand Breakage Induced by Peroxynitrite
Andrea Guidarelli, Liana Cerioni, Mara Fiorani, and Orazio Cantoni
- 4458 Engagement of TLR2 Does not Reverse the Suppressor Function of Mouse Regulatory T Cells, but Promotes Their Survival
Qian Chen, Todd S. Davidson, Eva N. Huter, and Ethan M. Shevach
- 4467 ThPOK Derepression Is Required for Robust CD8 T cell Responses to Viral Infection
Ruka Setoguchi, Ichiro Taniuchi, and Michael J. Bevan
- 4475 c-Jun Controls the Ability of IL-12 to Induce IL-10 Production from Human Memory CD4⁺ T Cells
Carlos A. Garcia, Huizhi Wang, Manjunatha R. Benakanakere, Elyse Barrett, Denis F. Kinane, and Michael Martin
- 4483 Developmental Switch of the Expression of Ion Channels in Human Dendritic Cells
Emese Zsiros, Katalin Kis-Toth, Peter Hajdu, Rezso Gaspar, Joanna Bielanska, Antonio Felipe, Eva Rajnavolgyi, and Gyorgy Panyi
- 4493 Cell Cycle Progression following Naive T Cell Activation Is Independent of Jak3/Common γ -Chain Cytokine Signals
Min Shi, Tsung H. Lin, Kenneth C. Appell, and Leslie J. Berg
- 4502 Killer Ig-Like Receptor Ligand Mismatch Directs NK Cell Expansion In Vitro
Mingus J. J. Rose, Andrew G. Brooks, Lisbeth A. Stewart, Thi H. Nguyen, and Anthony P. Schwarzer
- 4509 The Inhibitory Fc γ IIb Receptor Dampens TLR4-Mediated Immune Responses and Is Selectively Up-regulated on Dendritic Cells from Rheumatoid Arthritis Patients with Quiescent Disease
Mark H. Wenink, Kim C. M. Santegoets, Mieke F. Roelofs, Richard Huijbens, Hans J. P. M. Koenen, Ronald van Beek, Irma Joosten, Friederike Meyer-Wentrup, Linda Mathsson, Johan Ronnelid, Gosse J. Adema, Ezio Bonvini, Scott Koenig, Wim B. van den Berg, Piet L. C. M. van Riel, and Timothy R. D. J. Radstake
- 4521 P2Y₂ Receptor Transcription Is Increased by NF- κ B and Stimulates Cyclooxygenase-2 Expression and PGE₂ Released by Intestinal Epithelial Cells
Emilie Degagné, Djordje M. Grbic, Andrée-Anne Dupuis, Elise G. Lavoie, Christine Langlois, Nishant Jain, Gary A. Weisman, Jean Sévigny, and Fernand-Pierre Gendron
- 4530 Antitumor IgE Adjuvanticity: Key Role of Fc ϵ RI
Elisa A. Nigro, Anna T. Brini, Elisa Soprana, Alessandro Ambrosi, David Dombrowicz, Antonio G. Siccardi, and Luca Vangelista
- 4537 SOCS-1 Binding to Tyrosine 441 of IFN- γ Receptor Subunit 1 Contributes to the Attenuation of IFN- γ Signaling In Vivo
Robyn Starr, Martina Fuchsberger, Lei Shong Lau, Adam P. Uldrich, Ankita Goradia, Tracy A. Willson, Anne M. Verhagen, Warren S. Alexander, and Mark J. Smyth

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 4545 Temporal Regulation of Ig Gene Diversification Revealed by Single-Cell Imaging
Ellen C. Ordinario, Munehisa Yabuki, Ryan P. Larson, and Nancy Maizels
- 4554 Chicken IgY Binds Its Receptor at the C_{H3}/C_{H4} Interface Similarly as the Human IgA: Fc α RI Interaction
Jana Pürzel, Ramona Schmitt, Birgit C. Viertelboeck, and Thomas W. Göbel

IMMUNOGENETICS

- 4560 Genomic and Functional Uniqueness of the TNF Receptor-Associated Factor Gene Family in Amphioxus, the Basal Chordate
Shaochun Yuan, Tong Liu, Shengfeng Huang, Tao Wu, Ling Huang, Huiling Liu, Xin Tao, Manyi Yang, Kui Wu, Yanhong Yu, Meiling Dong, and Anlong Xu

- 4569 Dimorphic Motifs in D0 and D1+D2 Domains of Killer Cell Ig-Like Receptor 3DL1 Combine to Form Receptors with High, Moderate, and No Avidity for the Complex of a Peptide Derived from HIV and HLA-A*2402
Deepti Sharma, Karine Bastard, Lisbeth A. Guethlein, Paul J. Norman, Nobuyo Yawata, Makoto Yawata, Marcelo Pando, Hathairat Thananchai, Tao Dong, Sarah Rowland-Jones, Frances M. Brodsky, and Peter Parham

HOST DEFENSE

- 4583 Bacterial Surface Protein L Binds and Inactivates Neutrophil Proteins S100A8/A9
Bo Åkerström and Lars Björck
- 4593 A Novel Role for Plasmin-Mediated Degradation of Opsonizing Antibody in the Evasion of Host Immunity by Virulent, but Not Attenuated, *Francisella tularensis*
Deborah D. Crane, Shayna L. Warner, and Catharine M. Bosio
- 4601 Innate Immunity against Bacterial Infection following Hyperoxia Exposure Is Impaired in NRF2-Deficient Mice
Narsa M. Reddy, Vegiraju Suryanarayana, Dhananjaya V. Kalvakolanu, Masayuki Yamamoto, Thomas W. Kensler, Paul M. Hassoun, Steven R. Kleeberger, and Sekhar P. Reddy
- 4609 Exogenous Pentraxin 3 Restores Antifungal Resistance and Restrains Inflammation in Murine Chronic Granulomatous Disease
Carmen D'Angelo, Antonella De Luca, Teresa Zelante, Pierluigi Bonifazi, Silvia Moretti, Gloria Giovannini, Rossana Giulietta Iannitti, Silvia Zagarella, Silvia Bozza, Silvia Campo, Giovanni Salvatori, and Luigina Romani
- 4619 IL-27 Regulates IL-10 and IL-17 from CD4⁺ Cells in Nonhealing *Leishmania major* Infection
Charles F. Anderson, Jason S. Stumbofer, Christopher A. Hunter, and David Sacks
- 4628 Beneficial Immunomodulation by *Streptococcus mutans* Anti-P1 Monoclonal Antibodies Is Fc Independent and Correlates with Increased Exposure of a Relevant Target Epitope
Rebekah A. Robinette, Monika W. Oli, William P. McArthur, and L. Jeannine Brady
- 4639 Furin-Processed Antigens Targeted to the Secretory Route Elicit Functional TAP1^{-/-} CD8⁺ T Lymphocytes In Vivo
Francisco Medina, Manuel Ramos, Salvador Iborra, Patricia de León, Marta Rodríguez-Castro, and Margarita Del Val

INFLAMMATION

- 4648 The Proinflammatory Action of Microglial P2 Receptors Is Enhanced in SOD1 Models for Amyotrophic Lateral Sclerosis
Nadia D'Ambrosi, Pamela Finocchi, Savina Apolloni, Mauro Cozzolino, Alberto Ferri, Valeria Padovano, Grazia Pietrini, Maria Teresa Carrà, and Cinzia Volonté
- 4657 Human Mast Cells Adhere to and Migrate on Epithelial and Vascular Basement Membrane Laminins LM-332 and LM-511 via $\alpha_3\beta_1$ Integrin
Wondossen Sime, Carolina Lunderius-Andersson, Mattias Enoksson, Patricia Rousselle, Karl Tryggvason, Gunnar Nilsson, Ilkka Harvima, and Manuel Patarroyo
- 4666 IL-13-Induced Oxidative Stress via Microglial NADPH Oxidase Contributes to Death of Hippocampal Neurons In Vivo
Keun W. Park, Hyung H. Baik, and Byung K. Jin
- 4675 Human TCR- $\alpha\beta^+$ CD4⁻ CD8⁻ T Cells Can Derive from CD8⁺ T Cells and Display an Inflammatory Effector Phenotype
José C. Crispín and George C. Tsokos
- 4682 Human Airway Smooth Muscle Cells from Asthmatic Individuals Have CXCL8 Hypersecretion Due to Increased NF- κ B p65, C/EBP β , and RNA Polymerase II Binding to the CXCL8 Promoter
Alison E. John, Yong M. Zhu, Christopher E. Brightling, Linhua Pang, and Alan J. Knox
- 4693 CXCR3 Mediates Renal Th1 and Th17 Immune Response in Murine Lupus Nephritis
Oliver M. Steinmetz, Jan-Eric Turner, Hans-Joachim Paust, Matthias Lindner, Anett Peters, Kirstin Heiss, Joachim Velden, Helmut Hopfer, Susanne Fehr, Thorsten Krieger, Catherine Meyer-Schwesinger, Tobias N. Meyer, Udo Helmchen, Hans-Willi Mittrücker, Rolf A. K. Stahl, and Ulf Panzer

- 4705 The Role of Macrophage-Derived IL-1 in Induction and Maintenance of Angiogenesis
Yaron Carmi, Elena Voronov, Shabar Dotan, Nitza Lahat, Michal A. Rabat, Mina Fogel, Monika Huszar, Malka R. White, Charles A. Dinarello, and Ron N. Apte
- 4715 Improved Survival and Reduced Vascular Permeability by Eliminating or Blocking 12/15-Lipoxygenase in Mouse Models of Acute Lung Injury
Alexander Zarbock, Matthew R. DiStasi, Emily Smith, John M. Sanders, Gerhard Kronke, Brian L. Harry, Sibylle von Vietinghoff, Konrad Buscher, Jerry L. Nadler, and Klaus Ley
- 4723 Aldose Reductase Inhibition Suppresses the Expression of Th2 Cytokines and Airway Inflammation in Ovalbumin-Induced Asthma in Mice
Umesh C. S. Yadav, Amarjit S. Naura, Leopoldo Aguilera-Aguirre, Kota V. Ramana, Istvan Boldogh, Sanjiv Sur, Hamid A. Boulares, and Satish K. Srivastava
- 4733 Critical Role of TLR4 Response in the Activation of Microglia Induced by Ethanol
Sara Fernandez-Lizarbe, Maria Pascual, and Consuelo Guerri
- 4745 Regulatory T Cells Negatively Regulate Neovasculature of Airway Remodeling via DLL4-Notch Signaling
Miao-Tzu Huang, Yang-Shia Dai, Yu-Bin Chou, Yi-Hsiu Juan, Chih-Chiang Wang, and Bor-Luen Chiang
- 4755 Targeting NF- κ B with a Natural Triterpenoid Alleviates Skin Inflammation in a Mouse Model of Psoriasis
Honglin Wang, Tatiana Syrovets, Daniel Kess, Berthold Büchele, Heidi Hainzl, Oleg Lunov, Johannes M. Weiss, Karin Scharffetter-Kochanek, and Thomas Simmet
- 4764 A Role for Complement in the Enhanced Susceptibility of Steatotic Livers to Ischemia and Reperfusion Injury
Songqing He, Carl Atkinson, Zachary Evans, Justin D. Ellett, Mark Southwood, Andrew Elvington, Kenneth D. Chavin, and Stephen Tomlinson

CLINICAL IMMUNOLOGY

- 4773 Matrix Metalloproteinase (MMP)-9, but Not MMP-2, Is Involved in the Development and Progression of C Protein-Induced Myocarditis and Subsequent Dilated Cardiomyopathy
Yoh Matsumoto, Il-Kwon Park, and Kuniko Kohyama
- 4782 Defucosylated Anti-CCR4 Monoclonal Antibody Exerts Potent ADCC against Primary ATLL Cells Mediated by Autologous Human Immune Cells in NOD/Shi-*scid*, IL-2R γ^{null} Mice In Vivo
Asahi Ito, Takashi Ishida, Atae Utsunomiya, Fumihiko Sato, Fumiko Mori, Hiroki Yano, Atsushi Inagaki, Susumu Suzuki, Hisashi Takino, Masaki Ri, Shigeru Kusumoto, Hirokazu Komatsu, Shinsuke Iida, Hiroshi Inagaki, and Ryuzo Ueda
- 4792 T Cell Infiltrates in the Muscles of Patients with Dermatomyositis and Polymyositis Are Dominated by CD28 $^{\text{null}}$ T Cells
Andreas E. R. Fasth, Maryam Dastmalchi, Afzar Rabbar, Stina Salomonsson, Jayesh M. Pandya, Eva Lindroos, Inger Nennesmo, Karl-Johan Malmberg, Cecilia Söderberg-Nauclér, Christina Trollmo, Ingrid E. Lundberg, and Vivianne Malmström
- 4800 Characterization of Preexisting MAGE-A3-Specific CD4 $^{+}$ T Cells in Cancer Patients and Healthy Individuals and Their Activation by Protein Vaccination
Takemasa Tsuji, Nasser K. Altorki, Gerd Ritter, Lloyd J. Old, and Sacha Gnjatich
- 4809 Suppression of Ongoing T Cell-Mediated Autoimmunity by Peptide-MHC Class II Dimer Vaccination
Li Li, Zuoan Yi, Bo Wang, and Roland Tisch
- 4817 AUTHOR INDEX