



TABLE OF CONTENTS

7779 IN THIS ISSUE

BRIEF REVIEWS

- 7781 Signal Regulatory Proteins in the Immune System
Ellen M. van Beek, Fiona Cochrane, A. Neil Barclay, and Timo K. van den Berg
- 7788 A Nomenclature for Signal Regulatory Protein Family Members
Timo K. van den Berg, Ellen M. van Beek, Hans-Jörg Bühring, Marco Colonna, Michinari Hamaguchi, Chris J. Howard, Masato Kasuga, Yuan Liu, Takashi Matozaki, Benjamin G. Neel, Charles A. Parkos, Shin-ichiro Sano, Agnès Vignery, Eric Vivier, Mark Wright, Rainer Zawatzky, and A. Neil Barclay

CUTTING EDGE

- 7791 Cutting Edge: Lectin-Like Transcript 1 Is a Ligand for the CD161 Receptor
Hatice Aldemir, Virginie Prod'homme, Marie-Jeanne Dumaury, Christelle Retiere, Gwenola Poupon, Julie Cazareth, Franck Bibl, and Veronique M. Braud
- 7796 Cutting Edge: Lectin-Like Transcript-1 Is a Ligand for the Inhibitory Human NKR-P1A Receptor
David B. Rosen, Jayaram Bettadapura, Mohammed Alsharifi, Porunelloor A. Mathew, Hilary S. Warren, and Lewis L. Lanier
- 7800 Cutting Edge: FADD Is Not Required for Antigen Receptor-Mediated NF-κB Activation
Adrian F. Arechiga, Bryan D. Bell, Jennifer C. Solomon, Isaac H. Chu, Claire L. Dubois, Brian E. Hall, Thaddeus C. George, David M. Coder, and Craig M. Walsh
- 7805 Cutting Edge: Foxj1 Protects against Autoimmunity and Inhibits Thymocyte Egress
Subhashini Srivatsan and Stanford L. Peng

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 7811 The Scaffolding Protein CG-NAP/AKAP450 Is a Critical Integrating Component of the LFA-1-Induced Signaling Complex in Migratory T Cells
Basma Salah El Din El Homasany, Yuri Volkov, Mikiko Takahashi, Yoshitaka Ono, Guy Keryer, Annie Delouvé, Eileen Looby, Aideen Long, and Dermot Kelleher

On the cover: NF-κB/p65 translocation upon stimulation of primary mouse T cells does not depend on FADD or caspase activity. Cells from C57BL6/J and *FADD*^{−/−} mice were stimulated with plate bound anti-CD3 plus anti-CD28 for 1 hour, then permeabilized and stained with DAPI to detect nuclei (blue) and anti-p65 (green) to detect NF-κB. Arechiga, A. F., B. D. Bell, J. C. Solomon, I. H. Chu, C. L. Dubois, B. E. Hall, T. C. George, D. M. Coder, and C. M. Walsh. 2005. Cutting Edge: FADD is not required for antigen receptor-mediated NF-κB activation. *J. Immunol.* 175: 7795–7799.

The Journal of Immunology (ISSN 0022-1767) is published twice each month by The American Association of Immunologists, Inc., 9650 Rockville Pike, Bethesda, MD 20814-3998. Subscription rates: U.S.A. AND POSSESSIONS: personal, \$370; institutional, \$730–\$1,015 (depending on number of faculty and students); single copy, \$46. OUTSIDE U.S.A. (including Canada): personal, \$530; institutional, \$890–\$1,175 (depending on number of faculty and students); single copy, \$53. See <www.jimmunol.org> for current rate information. Air Printed Matter rates are available on request from Customer Service, *The Journal of Immunology*, Room L-2407-A, 9650 Rockville Pike, Bethesda, MD 20814-3998. Indexed by *Current Contents* and *Index Medicus*. 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*, Room L-2407-A, 9650 Rockville Pike, Bethesda, MD 20814-3998. Copyright © 2005 by The American Association of Immunologists, Inc.

- 7819 Silencing Human NKG2D, DAP10, and DAP12 Reduces Cytotoxicity of Activated CD8⁺ T Cells and NK Cells
Mobin Karimi, Thai M. Cao, Jeanette A. Baker, Michael R. Verneris, Luis Soares, and Robert S. Negrin
- 7829 CD80 Cytoplasmic Domain Controls Localization of CD28, CTLA-4, and Protein Kinase Cθ in the Immunological Synapse
Su-Yi Tseng, Mengling Liu, and Michael L. Dustin
- 7837 Identification of T Cell-Restricted Genes, and Signatures for Different T Cell Responses, Using a Comprehensive Collection of Microarray Datasets
Tatyana Chtanova, Rebecca Newton, Sue M. Liu, Lilach Weininger, Timothy R. Young, Diego G. Silva, Francesco Bertoni, Andrea Rinaldi, Stephane Chappaz, Federica Sallusto, Michael S. Rolph, and Charles R. Mackay
- 7848 Ligation of CD28 by Its Natural Ligand CD86 in the Absence of TCR Stimulation Induces Lipid Raft Polarization in Human CD4 T Cells
Birgit Kovacs, Richard V. Parry, Zhengyu Ma, Emily Fan, Debra K. Shivers, Benjamin A. Freiberg, Anna K. Thomas, Robert Rutherford, Catherine A. Rumbley, James L. Riley, and Terri H. Finkel
- 7855 Targeting LFA-1 and CD154 Suppresses the In Vivo Activation and Development of Cytolytic (CD4-Independent) CD8⁺ T Cells
Keri E. Lunsford, Mitchel A. Koester, Anna M. Eiring, Phillip H. Horne, Donghong Gao, and Ginny L. Bumgardner
- 7867 IL-21 Induces Differentiation of Human Naive and Memory B Cells into Antibody-Secreting Plasma Cells
Rachel Ettinger, Gary P. Sims, Anna-Marie Fairhurst, Rachel Robbins, Yong Sing da Silva, Rosanne Spolski, Warren J. Leonard, and Peter E. Lipsky
- 7880 Increased Expression of Genes Linked to FcεRI Signaling and to Cytokine and Chemokine Production in Lyn-Deficient Mast Cells
Valerie Hernandez-Hansen, Julie D. J. Bard, Christy A. Tarleton, Julie A. Wilder, Clifford A. Lowell, Bridget S. Wilson, and Janet M. Oliver
- 7889 CD18 Is Required for Optimal Development and Function of CD4⁺CD25⁺ T Regulatory Cells
Marissa Marski, Sravanthi Kandula, Jerrold R. Turner, and Clara Abraham
- 7898 Cooperation of Invariant NKT Cells and CD4⁺CD25⁺ T Regulatory Cells in the Prevention of Autoimmune Myasthenia
Ruolan Liu, Antonio La Cava, Xue-Feng Bai, Younghyun Jee, Mary Price, Denise I. Campagnolo, Premkumar Christadoss, Timothy L. Vollmer, Luc Van Kaer, and Fu-Dong Shi
- 7905 CD4⁺ T Cell Responses Elicited by Different Subsets of Human Skin Migratory Dendritic Cells
Adrian E. Morelli, J. Peter Rubin, Geza Erdos, Olga A. Tkacheva, Alicia R. Mathers, Alan F. Zahorchak, Angus W. Thomson, Louis D. Falo, Jr., and Adriana T. Larregina
- 7916 Retinoid X Receptor Agonists Increase Bcl2a1 Expression and Decrease Apoptosis of Naive T Lymphocytes
Reuven Rasooly, Gertrud U. Schuster, Jeffrey P. Gregg, Jia-Hao Xiao, Roshantha A. S. Chandraratna, and Charles B. Stephensen
- 7930 Identification of Specific Proteins and Peptides in *Mycobacterium leprae* Suitable for the Selective Diagnosis of Leprosy
John S. Spencer, Hazel M. Dockrell, Hee Jin Kim, Maria A. M. Marques, Diana L. Williams, Marcia V. S. B. Martins, Marcio L. F. Martins, Monica C. B. S. Lima, Euzenir N. Sarno, Geraldo M. B. Pereira, Haroldo Matos, Leila S. Fonseca, Elisabeth P. Sampaio, Thomas H. M. Ortenhoff, Annemieke Geluk, Sang-Nae Cho, Neil G. Stoker, Stewart T. Cole, Patrick J. Brennan, and Maria C. V. Pessolani
- 7939 Long-Term MHC Class II Presentation of the EBV Lytic Protein BHRF1 by EBV Latently Infected B Cells following Capture of BHRF1 Antigen
Elise Landais, Xavier Saulquin, Marc Bonneville, and Elisabeth Houssaint
- 7947 Protein Tyrosine Phosphatase α Regulates Fyn Activity and Cbp/PAG Phosphorylation in Thymocyte Lipid Rafts
Lola Maksumova, Hoa T. Le, Farkhad Muratkhanova, Dominique Davidson, André Veillette, and Catherine J. Pallen

- 7957 Quantifying the Contribution of Defective Ribosomal Products to Antigen Production: A Model-Based Computational Analysis
Sascha Bulik, Bjoern Peters, and Hermann-Georg Holzhütter
- 7965 The Role of Low Molecular Weight Thiols in T Lymphocyte Proliferation and IL-2 Secretion
Tanja Hadzic, Ling Li, Ningli Cheng, Susan A. Walsh, Douglas R. Spitz, and C. Michael Knudson
- 7973 The Sphingosine 1-Phosphate Receptor Agonist FTY720 Differentially Affects the Sequestration of CD4⁺/CD25⁺ T-Regulatory Cells and Enhances Their Functional Activity
Elzbieta Sawicka, Gerald Dubois, Gabor Jarai, Matthew Edwards, Matthew Thomas, Andy Nicholls, Rainer Albert, Catherine Newson, Volker Brinkmann, and Christoph Walker
- 7981 Stabilized β -Catenin Extends Thymocyte Survival by Up-Regulating Bcl-x_L
Huimin Xie, Zhaofeng Huang, Maureen S. Sadim, and Zuoming Sun
- 7989 The Inhibitory Receptor IRp60 (CD300a) Is Expressed and Functional on Human Mast Cells
Ido Bachelet, Ariel Munitz, Alessandro Moretta, Lorenzo Moretta, and Francesca Levi-Schaffer
- 7996 The Cytotoxicity Receptor CRACC (CS-1) Recruits EAT-2 and Activates the PI3K and Phospholipase C γ Signaling Pathways in Human NK Cells
Ilaria Tassi and Marco Colonna
- 8003 IL-2 Regulates Perforin and Granzyme Gene Expression in CD8⁺ T Cells Independently of Its Effects on Survival and Proliferation
Michelle L. Janas, Penny Groves, Norbert Kienzle, and Anne Kelso
- 8011 Complement Component C3d-Antigen Complexes Can Either Augment or Inhibit B Lymphocyte Activation and Humoral Immunity in Mice Depending on the Degree of CD21/CD19 Complex Engagement
Youngkyun Lee, Karen M. Haas, Dennis O. Gor, Xuedong Ding, David R. Karp, Neil S. Greenspan, Jonathan C. Poe, and Thomas F. Tedder
- 8024 Fas Ligand Induces Cell-Autonomous IL-23 Production in Dendritic Cells, a Mechanism for Fas Ligand-Induced IL-17 Production
Hiroyasu Kidoya, Masayuki Umemura, Takaya Kawabe, Goro Matsuzaki, Ayano Yahagi, Ryu Imamura, and Takashi Suda
- 8032 Disparate Regulation and Function of the Class A Scavenger Receptors SR-AI/II and MARCO
Szczepan Józefowski, Mohamed Arredouani, Timothy Sulahian, and Lester Kobzik
- 8042 CD43 Functions as a Ligand for E-Selectin on Activated T Cells
Masanori Matsumoto, Kazuyuki Atarashi, Eiji Umemoto, Yuko Furukawa, Akiko Shigeta, Masayuki Miyasaka, and Takako Hirata
- 8051 Human CD4⁺ T Cells Express TLR5 and Its Ligand Flagellin Enhances the Suppressive Capacity and Expression of FOXP3 in CD4⁺CD25⁺ T Regulatory Cells
Natasha K. Crellin, Rosa V. Garcia, Omeed Hadifar, Sarah E. Allan, Theodore S. Steiner, and Megan K. Levings
- 8060 Elevated T Regulatory Cells in Long-Term Stable Transplant Tolerance in Rhesus Macaques Induced by Anti-CD3 Immunotoxin and Deoxyspergualin
Clement K. Asiedu, Karen J. Goodwin, Gansuvd Balgansuren, Stacie M. Jenkins, Stéphanie Le Bas-Bernardet, Uuganbayar Jargal, David M. Neville, Jr., and Judith M. Thomas
- 8069 Erythromycin Differentially Inhibits Lipopolysaccharide- or Poly(I:C)-Induced but Not Peptidoglycan-Induced Activation of Human Monocyte-Derived Dendritic Cells
Motoko Yasutomi, Yusei Ohshima, Nemuko Omata, Akiko Yamada, Hiromichi Iwasaki, Yoshimasa Urasaki, and Mitsufumi Mayumi
- 8077 Disruption of Lipid Rafts Stimulates Phospholipase D Activity in Human Lymphocytes: Implication in the Regulation of Immune Function
Olivier Diaz, Saïda Mébarek-Azzam, Amal Benzaria, Madeleine Dubois, Michel Lagarde, Georges Némoz, and Annie-France Prigent

- 8087 Identification of Immunodominant Epitopes of α -Gliadin in HLA-DQ8 Transgenic Mice following Oral Immunization

Stefania Senger, Francesco Maurano, Maria F. Mazzeo, Marcello Gaita, Olga Fierro, Chella S. David, Riccardo Troncone, Salvatore Auricchio, Rosa A. Siciliano, and Mauro Rossi

- 8096 A Role for TLRs in the Regulation of Immune Cell Migration by First Trimester Trophoblast Cells
Vikki M. Abrahams, Irene Visintin, Paulomi B. Aldo, Seth Guller, Roberto Romero, and Gil Mor

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 8105 Somatic Hypermutation and Junctional Diversification at Ig Heavy Chain Loci in the Nurse Shark
Karolina Malecek, Julie Brandman, Jennie E. Brodsky, Yuko Ohta, Martin F. Flajnik, and Ellen Hsu

- 8116 Specific IgE Determination to Epitope Peptides of ω -5 Gliadin and High Molecular Weight Glutenin Subunit Is a Useful Tool for Diagnosis of Wheat-Dependent Exercise-Induced Anaphylaxis
Hiroaki Matsuo, Kunie Kohno, Hiroyuki Niihara, and Eishin Morita

- 8123 T Cell Activation-Induced CrkII Binding to the Zap70 Protein Tyrosine Kinase Is Mediated by Lck-Dependent Phosphorylation of Zap70 Tyrosine 315
Sigal Gelkop, Gerald D. Gish, Yael Babichev, Tony Pawson, and Noah Isakov

- 8133 Sequence Transfers between Variable Regions in a Mouse Antibody Transgene Can Occur by Gene Conversion
Nicole D'Avirro, David Truong, Bo Xu, and Erik Selsing

- 8138 A Role for Phosphatidylinositol 3-Kinase in TCR-Stimulated ERK Activation Leading to Paxillin Phosphorylation and CTL Degranulation
Leslie K. Robertson, Laura R. Mireau, and Hanne L. Ostergaard

- 8146 Intergenic Transcription Is Not Required in Th2 Cells to Maintain Histone Acetylation and Transcriptional Permissiveness at the *Il4-Il13* Locus
Aurelie Baguet, Xizhang Sun, Thomas Arroll, Anton Krumm, and Mark Bix

IMMUNOGENETICS

- 8154 Functional Interplay between Intrinsic B and T Cell Defects Leads to Amplification of Autoimmune Disease in New Zealand Black Chromosome 1 Congenic Mice
Yui-Ho Cheung, Nan-Hua Chang, Yong-Chun Cai, Gabriel Bonventi, Ralph MacLeod, and Joan E. Wither

HOST DEFENSE

- 8165 Mice Deficient in LRG-47 Display Enhanced Susceptibility to *Trypanosoma cruzi* Infection Associated with Defective Hemopoiesis and Intracellular Control of Parasite Growth
Helton C. Santiago, Carl G. Feng, Andre Bafica, Ester Roffe, Rosa M. Arantes, Allen Cheever, Gregory Taylor, Leda Q. Vierira, Julio Aliberti, Ricardo T. Gazzinelli, and Alan Sher

- 8173 Defective Microarchitecture of the Spleen Marginal Zone and Impaired Response to a Thymus-Independent Type 2 Antigen in Mice Lacking Scavenger Receptors MARCO and SR-A
Yunying Chen, Timo Pikkariainen, Outi Elomaa, Raija Soininen, Tatsuhiko Kodama, Georg Kraal, and Karl Tryggvason

- 8181 Activated Macrophages Infected with *Legionella* Inhibit T Cells by Means of MyD88-Dependent Production of Prostaglandins
Annie L. Neild, Sunny Shin, and Craig R. Roy

- 8191 A Requirement for the $V\gamma 1^+$ Subset of Peripheral $\gamma\delta$ T Cells in the Control of the Systemic Growth of *Toxoplasma gondii* and Infection-Induced Pathology
Charlotte E. Egan, Jane E. Dalton, Elizabeth M. Andrew, Judith E. Smith, Marc-Jan Gubbels, Boris Striepen, and Simon R. Carding

- 8200 CD11b $^+$ /Gr-1 $^+$ Immature Myeloid Cells Mediate Suppression of T Cells in Mice Bearing Tumors of IL-1 β -Secreting Cells
Xiaoping Song, Yakov Krelin, Tatyana Dvorkin, Olle Bjorkdahl, Shraga Segal, Charles A. Dinarello, Elena Voronov, and Ron N. Apte

- 8209 *Yersinia* Outer Protein P Suppresses TGF- β -Activated Kinase-1 Activity to Impair Innate Immune Signaling in *Yersinia enterocolitica*-Infected Cells
Rudolf Haase, Kathleen Richter, Gudrun Pfaffinger, Gilles Courtois, and Klaus Ruckdeschel
- 8218 Cytomegalovirus-Specific CD4 $^{+}$ T Cells in Healthy Carriers Are Continuously Driven to Replicative Exhaustion
Jean M. Fletcher, Milica Vukmanovic-Stajic, Padraig J. Dunne, Katie E. Birch, Joanne E. Cook, Sarah E. Jackson, Mike Salmon, Malcolm H. Rustin, and Arne N. Akbar
- 8226 E2 of Hepatitis C Virus Inhibits Apoptosis
Song Hee Lee, Yoon Ki Kim, Chon Saeng Kim, Su Kyoung Seol, Joonhyun Kim, Sungchan Cho, Young Lan Song, Ralf Bartenschlager, and Sung Key Jang
- 8236 Pure Lipopolysaccharide or Synthetic Lipid A Induces Activation of p21Ras in Primary Macrophages through a Pathway Dependent on Src Family Kinases and PI3K
Muriel D. David, Chris L. Cochrane, Sherie K. Duncan, and John W. Schrader

INFLAMMATION

- 8242 *Helicobacter pylori*-Induced Invasion and Angiogenesis of Gastric Cells Is Mediated by Cyclooxygenase-2 Induction through TLR2/TLR9 and Promoter Regulation
Ya-Jen Chang, Ming-Shiang Wu, Jaw-Town Lin, and Ching-Chow Chen
- 8253 Allergen-Induced Airway Hyperresponsiveness Mediated by Cyclooxygenase Inhibition Is Not Dependent on 5-Lipoxygenase or IL-5, but Is IL-13 Dependent
R. Stokes Peebles, Jr., Koichi Hashimoto, James R. Sheller, Martin L. Moore, Jason D. Morrow, Shaoquan Ji, Jack A. Elias, Kasia Goleniewska, Jamye O'Neal, Daphne B. Mitchell, Barney S. Graham, and Weisong Zhou
- 8260 Adenosine Augments IL-10 Production by Macrophages through an A_{2B} Receptor-Mediated Posttranscriptional Mechanism
Zoltán H. Németh, Carol S. Lutz, Balázs Csóka, Edwin A. Deitch, S. Joseph Leibovich, William C. Gause, Masahide Tone, Pál Pacher, E. Sylvester Vizi, and György Haskó
- 8271 CD8 T Cell-Mediated Lung Damage in Response to the Extracellular Pathogen *Pneumocystis* Is Dependent on MHC Class I Expression by Radiation-Resistant Lung Cells
Nicole N. Meissner, Frances E. Lund, Soo Han, and Allen Harmsen
- 8280 IL-18 Induces Monocyte Chemotactic Protein-1 Production in Macrophages through the Phosphatidylinositol 3-Kinase/Akt and MEK/ERK1/2 Pathways
Jae Kwang Yoo, Hyokjoon Kwon, Lee-Young Khil, Li Zhang, Hee-Sook Jun, and Ji-Won Yoon
- 8287 Differential Regulation of Osteoblast Activity by Th Cell Subsets Mediated by Parathyroid Hormone and IFN- γ
Nathan Young, Natallia Mikhalevich, Ying Yan, Di Chen, and Wei-ping Zheng
- 8296 Inflammation-Induced Chondrocyte Hypertrophy Is Driven by Receptor for Advanced Glycation End Products
Denise L. Cecil, Kristen Johnson, John Rediske, Martin Lotz, Ann Marie Schmidt, and Robert Terkeltaub
- 8303 TNF α -Induced Long Pentraxin PTX3 Expression in Human Lung Epithelial Cells via JNK
Bing Han, Marco Mura, Cristiano F. Andrade, Daisuke Okutani, Monika Lodyga, Claudia C. dos Santos, Shaf Keshavjee, Michael Matthay, and Mingyao Liu
- 8312 Complement-Dependent Apoptosis and Inflammatory Gene Changes in Murine Lupus Cerebritis
Jessy J. Alexander, Alexander Jacob, Lihua Bao, R. Loch Macdonald, and Richard J. Quigg
- 8320 Topical Superantigen Exposure Induces Epidermal Accumulation of CD8 $^{+}$ T Cells, a Mixed Th1/Th2-Type Dermatitis and Vigorous Production of IgE Antibodies in the Murine Model of Atopic Dermatitis
Terhi Savinko, Antti Lauerma, Sari Lehtimäki, Michael Gombert, Marja-Leena Majuri, Nanna Fyhrquist-Vanni, Marie-Caroline Dieu-Nosjean, Lajos Kemeny, Henrik Wolff, Bernhard Homey, and Harri Alenius
- 8327 Aberrant Expression of the Autoantigen Heterogeneous Nuclear Ribonucleoprotein-A2 (RA33) and Spontaneous Formation of Rheumatoid Arthritis-Associated Anti-RA33 Autoantibodies in TNF- α Transgenic Mice
Silvia Hayer, Makiyah Tohidast-Akrad, Silva Haralambous, Beatrice Jahn-Schmid, Karl Skriner, Sylvie Trembleau, Hélène Dumortier, Serafin Pinol-Roma, Kurt Redlich, Georg Schett, Sylviane Muller, George Kollias, Josef Smolen, and Günter Steiner

- 8337 Mcl-1 Is Essential for the Survival of Synovial Fibroblasts in Rheumatoid Arthritis
Hongtao Liu, Polikseni Eksarko, Vladislav Temkin, G. Kenneth Haines III, Harris Perlman, Alisa E. Koch, Bayar Thimmapaya, and Richard M. Pope
- 8346 Saliva from *Lutzomyia longipalpis* Induces CC Chemokine Ligand 2/Monocyte Chemoattractant Protein-1 Expression and Macrophage Recruitment
Clarissa R. Teixeira, Maria Jânia Teixeira, Regis B. B. Gomes, Claire S. Santos, Bruno B. Andrade, Imbroinise Raffaele-Netto, João S. Silva, Angelo Guglielmotti, José C. Miranda, Aldina Barral, Cláudia Brodskyn, and Manoel Barral-Netto
-
- CLINICAL IMMUNOLOGY**
- 8354 Reduced Allergenic Potency of VR9-1, a Mutant of the Major Shrimp Allergen Pen a 1 (Tropomyosin)
Gerald Reese, Julia Viebranz, Susan M. Leong-Kee, Matthew Plante, Iris Lauer, Stefanie Randow, Mar San-Miguel Moncin, Rosalia Ayuso, Samuel B. Lehrer, and Stefan Vieths
- 8365 CD8⁺ T Cell-Mediated HLA-A0201-Restricted Cytotoxicity to Transaldolase Peptide 168–176 in Patients with Multiple Sclerosis
Brian Niland, Katalin Banki, William E. Biddison, and Andras Perl
- 8379 Differential Expression of Alternatively Spliced Transcripts of HLA-G in Human Preimplantation Embryos and Inner Cell Masses
Yuan Q. Yao, David H. Barlow, and Ian L. Sargent
- 8386 Cloning the Arterial IgA Antibody Response during Acute Kawasaki Disease
Anne H. Rowley, Stanford T. Shulman, Francesca L. Garcia, Judith A. Guzman-Cottrill, Masaru Miura, Hannah L. Lee, and Susan C. Baker
- 8392 Global Natural Regulatory T Cell Depletion in Active Systemic Lupus Erythematosus
Makoto Miyara, Zahir Amoura, Christophe Parizot, Cécile Badoual, Karim Dorgham, Salim Trad, Dominique Nochy, Patrice Debré, Jean-Charles Piette, and Guy Gorochov
- 8401 CXCL10 DNA Vaccination Prevents Spontaneous Diabetes through Enhanced β Cell Proliferation in NOD Mice
Toshikatsu Shigihara, Akira Shimada, Yoichi Oikawa, Hiroyuki Yoneyama, Yasuhiko Kanazawa, Yoshiaki Okubo, Kouji Matsushima, Eiji Yamato, Jun-ichi Miyazaki, Akira Kasuga, Takao Saruta, and Shosaku Narumi
- 8409 Immunization with Short Peptides from the 60 kDa Ro Antigen Recapitulates the Serological and Pathological Findings as well as the Salivary Gland Dysfunction of Sjögren's Syndrome
R. Hal Scofield, Sima Asfa, David Obeso, Roland Jonsson, and Biji T. Kurien
- 8415 Functional and Phenotypic Characterization of CD57⁺CD4⁺ T Cells and Their Association with HIV-1-Induced T Cell Dysfunction
Brent E. Palmer, Naomi Blyveis, Andrew P. Fontenot, and Cara C. Wilson
- 8424 Expression and Activity of NOX5 in the Circulating Malignant B Cells of Hairy Cell Leukemia
Aura S. Kamiguti, Lena Serrander, Ke Lin, Robert J. Harris, John C. Cawley, David J. Allsup, Joseph R. Slupsky, Karl-Heinz Krause, and Mirko Zuzel
- 8431 Immunodominance of Poxviral-Specific CTL in a Human Trial of Recombinant-Modified Vaccinia Ankara
Caroline L. Smith, Fareed Mirza, Valerie Pasquetto, David C. Tscharke, Michael J. Palmowski, P. Rod Dunbar, Alessandro Sette, Adrian L. Harris, and Vincenzo Cerundolo
- 8438 Letter of Retraction
- 8439 Corrections
- 8445 Author Index
- 8448 Ad Hoc Reviewers
- 8459 Author Index to Volume 175
- 8484 Subject Index to Volume 175
- 8517 AAI Membership Application
- 8518 AAI Trainee Membership Application