



**SIMPLE, POWERFUL, ACCESSIBLE.
FULL SPECTRUM FLOW CYTOMETRY**

9+ color assays, together with high throughput or extended warranty, for just \$69.9K

ACT NOW



176 (11)

J Immunol 2006; 176:6365-7132; ;
<http://www.jimmunol.org/content/176/11>

This information is current as of October 23, 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.





IMMUNOLOGY

THE JOURNAL OF

TABLE OF CONTENTS

6365 IN THIS ISSUE

PILLARS OF IMMUNOLOGY

- 6369 The Divergence of Lymphocyte Development Pathways
Carol F. Webb and Paul W. Kincade
- 6370 Pillars Article: The Functions of the Thymus System and the Bursa System in the Chicken. *J. Exp. Med.* 1966. 123: 75–102.
Max D. Cooper, Raymond D. A. Peterson, Mary Ann South, and Robert A. Good

BRIEF REVIEWS

- 6405 Space, Selection, and Surveillance: Setting Boundaries with BlyS
Juli P. Miller, Jason E. Stadanlick, and Michael P. Cancro

CUTTING EDGE

- 6411 Cutting Edge: T Cell Ig Mucin-3 Reduces Inflammatory Heart Disease by Increasing CTLA-4 during Innate Immunity
Sylvia Frisancho-Kiss, Jennifer F. Nyland, Sarah E. Davis, Masheka A. Barrett, Shannon J. L. Gatewood, Dolores B. Njoku, Daniela Cihakova, Ellen K. Silbergeld, Noel R. Rose, and DeLisa Fairweather

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 6417 Translocation of Active Heparanase to Cell Surface Regulates Degradation of Extracellular Matrix Heparan Sulfate upon Transmigration of Mature Monocyte-Derived Dendritic Cells
Sandrine Benhamron, Hovav Nechushtan, Inna Verbovetski, Alon Krispin, Ghada Abboud-Jarrous, Eyal Zcharia, Evgeny Edovitsky, Efrat Nahari, Tamar Peretz, Israel Vlodavsky, and Dror Mevorach
- 6425 Monocyte/Macrophage Dysfunctions Do Not Impair the Promotion of Myelofibrosis by High Levels of Thrombopoietin
Orianne Wagner-Ballon, Hédia Chagraoui, Eric Prina, Micheline Tulliez, Geneviève Milon, Hana Raslova, Jean-Luc Villeval, William Vainchenker, and Stéphane Giraudier
- 6434 Glucocorticoid-Induced TNF Receptor Family Related Gene Activation Overcomes Tolerance/Ignorance to Melanoma Differentiation Antigens and Enhances Antitumor Immunity
Teresa Ramirez-Montagut, Andrew Chow, Daniel Hirschhorn-Cymerman, Theis H. Terwey, Adam A. Kochman, Sydney Lu, Randy C. Miles, Shimon Sakaguchi, Alan N. Houghton, and Marcel R. M. van den Brink

On the cover: Frozen section of jejunum from a 6-wk-old female NOD mouse that had undergone thymectomy 3 days after birth. CD4⁺ T cells (stained brown) in the lamina propria are normal in number, but CD8⁺ cells in the epithelial layer (intraepithelial lymphocytes) are markedly depleted after neonatal thymectomy. Locke, N. R., S. Stankovic, D. P. Funda, and L. C. Harrison. 2006. TCR $\gamma\delta$ intraepithelial lymphocytes are required for self-tolerance. *J. Immunol.* 176: 6553–6559.

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-2407A, 9650 Rockville Pike, Bethesda, MD 20814-3998. Copyright © 2006 by The American Association of Immunologists, Inc.

- 6443 Suppression of Alveolar Macrophage Apoptosis Prolongs Survival of Rats and Mice with *Pneumocystis* Pneumonia
Mark E. Lasbury, Pamela J. Durant, Chad A. Ray, Dennis Tschang, Reto Schwendener, and Chao-Hung Lee
- 6454 NK Lytic-Associated Molecule, Involved in NK Cytotoxic Function, Is an E3 Ligase
Julie M. Fortier and Jacki Kornbluth
- 6464 Selective Export of HLA-F by Its Cytoplasmic Tail
Louise H. Boyle, Alison K. Gillingham, Sean Munro, and John Trowsdale
- 6473 Functional and Molecular Comparison of Anergic and Regulatory T Lymphocytes
Birgit Knoechel, Jens Lohr, Shirley Zhu, Lisa Wong, Donglei Hu, Lara Ausubel, and Abul K. Abbas
- 6484 Cervical Thymus in the Mouse
James Dooley, Matthew Erickson, Geoffrey O. Gillard, and Andrew G. Farr
- 6491 Exogenous and Endogenous TLR Ligands Activate Anti-Chromatin and Polyreactive B Cells
Michele L. Fields, Michele H. Metzgar, Brian D. Hondowicz, Sun-Ah Kang, Shawn T. Alexander, Kristin D. Hazard, Alice C. Hsu, Yang-Zhu Du, Eline Luning Prak, Marc Monestier, and Jan Erikson
- 6503 Conditional Ablation of MHC-II Suggests an Indirect Role for MHC-II in Regulatory CD4 T Cell Maintenance
Michiko Shimoda, Faith Mmanywa, Sunil K. Joshi, Tao Li, Katsuya Miyake, Jeanene Pibkala, Jonathan A. Abbas, and Pandelakis A. Koni
- 6512 Function of Liver Activation-Regulated Chemokine/CC Chemokine Ligand 20 Is Differently Affected by Cathepsin B and Cathepsin D Processing
Lara Hasan, Luca Mazzucchelli, Mark Liebi, Maddalena Lis, Robert E. Hunger, Angus Tester, Christopher M. Overall, and Marlene Wolf
- 6523 Splenic Atrophy in Experimental Stroke Is Accompanied by Increased Regulatory T Cells and Circulating Macrophages
Halina Offner, Sandhya Subramanian, Susan M. Parker, Chunhe Wang, Michael E. Afentoulis, Anne Lewis, Arthur A. Vandenbark, and Patricia D. Hurn
- 6532 T Cells in Cryptopatch Aggregates Share TCR γ Variable Region Junctional Sequences with $\gamma\delta$ T Cells in the Small Intestinal Epithelium of Mice
Bradley S. Podd, Joseph Thoits, Nicholas Whitley, Hao-Yuan Cheng, Kimberly L. Kudla, Hiroko Taniguchi, Joanna Halkias, Kerstin Goth, and Victoria Camerini
- 6543 Stimulation through CD40 on Mouse and Human Renal Cell Carcinomas Triggers Cytokine Production, Leukocyte Recruitment, and Antitumor Responses that Can Be Independent of Host CD40 Expression
Lynette Shorts, Jonathan M. Weiss, Jong-Keuk Lee, Lisbeth A. Welniak, Jeffrey Subleski, Timothy Back, William J. Murphy, and Robert H. Wiltout
- 6553 TCR $\gamma\delta$ Intraepithelial Lymphocytes Are Required for Self-Tolerance
Natasha R. Locke, Sanda Stankovic, David P. Funda, and Leonard C. Harrison
- 6560 Impact of Orthologous Melan-A Peptide Immunizations on the Anti-Self Melan-A/HLA-A2 T Cell Cross-Reactivity
Sara Colombetti, Theres Fagerberg, Petra Baumgärtner, Laurence Chapatte, Daniel E. Speiser, Nathalie Rufer, Olivier Michielin, and Frédéric Lévy
- 6568 Abrogation of Functional Selectin-Ligand Expression Reduces Migration of Pathogenic CD8⁺ T Cells into Heart
Yi Hong Cai, Angeles Alvarez, Pilar Alcaide, Paurene Duramad, Yaw-Chin Lim, Petr Jarolim, John B. Lowe, Francis W. Luscinskas, and Andrew H. Lichtman
- 6576 A Complex of Wiskott-Aldrich Syndrome Protein with Mammalian Verprolins Plays an Important Role in Monocyte Chemotaxis
Shigeru Tsuboi
- 6586 CD4⁺CD25⁺Foxp3⁺ T Cells and CD4⁺CD25⁻Foxp3⁺ T Cells in Aged Mice
Tomohisa Nishioka, Jun Shimizu, Ryuji Iida, Sayuri Yamazaki, and Shimon Sakaguchi

- 6594 Macrophage-Colony-Stimulating Factor-Induced Proliferation and Lipopolysaccharide-Dependent Activation of Macrophages Requires Raf-1 Phosphorylation to Induce Mitogen Kinase Phosphatase-1 Expression
Ester Sánchez-Tilló, Mónica Comalada, Consol Farrera, Annabel F. Valledor, Jorge Lloberas, and Antonio Celada
- 6603 B and T Lymphocyte Attenuator-Mediated Signal Transduction Provides a Potent Inhibitory Signal to Primary Human CD4 T Cells That Can Be Initiated by Multiple Phosphotyrosine Motifs
Jens M. Chemnitz, Anthony R. Lanfranco, Inbal Braunstein, and James L. Riley
- 6615 Regulation of Ly49D/DAP12 Signal Transduction by Src-Family Kinases and CD45
Llewellyn H. Mason, Jami Willette-Brown, Lynn S. Taylor, and Daniel W. McVicar
- 6624 Antitumor Activity of the TLR-5 Ligand Flagellin in Mouse Models of Cancer
Lucia Sfondrini, Anna Rossini, Dario Besusso, Andrea Merlo, Elda Tagliabue, Sylvie Mènard, and Andrea Balsari
- 6631 Functional Regulatory T Cells Are Collected in Stem Cell Autografts by Mobilization with High-Dose Cyclophosphamide and Granulocyte Colony-Stimulating Factor
Maud Condomines, Philippe Quittet, Zhao-Yang Lu, Laure Nadal, Pascal Latry, Ernesto Lopez, Marion Baudard, Guilhem Requirand, Christophe Duperray, Jean-François Schved, Jean-François Rossi, Karin Tarte, and Bernard Klein
- 6640 Differential Signaling of T Cell Generation of IL-4 by Wild-Type and Short-Deletion Variant of Type 2 G Protein-Coupled Receptor for Vasoactive Intestinal Peptide (VPAC₂)
Mei-Chuan Huang, Allison L. Miller, Wengang Wang, Yvonne Kong, Sudhir Paul, and Edward J. Goetzl
- 6647 Lipopolysaccharide-Induced IL-1 β Production by Human Uterine Macrophages Up-Regulates Uterine Epithelial Cell Expression of Human β -Defensin 2
Patricia A. Pioli, Lehn K. Weaver, Todd M. Schaefer, Jacqueline A. Wright, Charles R. Wira, and Paul M. Guyre
- 6656 Macrophages Induce Neutrophil Apoptosis through Membrane TNF, a Process Amplified by *Leishmania major*
Cindy Allenbach, Christel Zufferey, Cynthia Perez, Pascal Launois, Christoph Mueller, and Fabienne Tacchini-Cottier
- 6665 An Altered T Cell Repertoire in MECL-1-Deficient Mice
Michael Basler, Jacqueline Moebius, Laura Elenich, Marcus Groettrup, and John J. Monaco
- 6673 Clustering Class I MHC Modulates Sensitivity of T Cell Recognition
David R. Fooksman, Gigi Kwik Grönvall, Qing Tang, and Michael Edidin
- 6681 Adhesion- and Degranulation-Promoting Adapter Protein Is Required for Efficient Thymocyte Development and Selection
Jennifer N. Wu, Shereen Gheith, Natalie A. Bezman, Qing-Hua Liu, Lindsey V. Fostel, Andrew M. Swanson, Bruce D. Freedman, Gary A. Koretzky, and Erik J. Peterson
- 6690 Degeneracy and Repertoire of the Human HIV-1 Gag p17₇₇₋₈₅ CTL Response
June Kan-Mitchell, Melissa Bajcz, Keri L. Schaubert, David A. Price, Jason M. Brenchley, Tedi E. Asher, Daniel C. Douek, Hwee L. Ng, Otto O. Yang, Charles R. Rinaldo, Jr., Jose Miguel Benito, Brygida Bisikirska, Ramakrishna Hegde, Franco M. Marincola, César Boggiano, Dianne Wilson, Judith Abrams, Sylvie E. Blondelle, and Darcy B. Wilson
- 6702 IL-7R α Gene Expression Is Inversely Correlated with Cell Cycle Progression in IL-7-Stimulated T Lymphocytes
Louise Swainson, Els Verhoeyen, François-Loïc Cosset, and Naomi Taylor
- 6709 Protein Kinase C- θ -Mediated Signals Enhance CD4⁺ T Cell Survival by Up-Regulating Bcl-x_L
Santhakumar Manicassamy, Sonal Gupta, Zhaofeng Huang, and Zuoming Sun
- 6717 Lymphopenia-Induced Homeostatic Proliferation of CD8⁺ T Cells Is a Mechanism for Effective Allogeneic Skin Graft Rejection following Burn Injury
Robert Maile, Carie M. Barnes, Alma I. Nielsen, Anthony A. Meyer, Jeffrey A. Frelinger, and Bruce A. Cairns
- 6727 CD86 Stimulation on a B Cell Activates the Phosphatidylinositol 3-Kinase/Akt and Phospholipase C γ 2/Protein Kinase C $\alpha\beta$ Signaling Pathways
Nicholas W. Kin and Virginia M. Sanders

- 6736 APRIL and BAFF Promote Increased Viability of Replicating Human B2 Cells via Mechanism Involving Cyclooxygenase 2
Patricia K. A. Mongini, John K. Inman, Hanna Han, Rasem J. Fattah, Steven B. Abramson, and Mukundan Attur
- 6752 The Combined Effects of Tryptophan Starvation and Tryptophan Catabolites Down-Regulate T Cell Receptor ζ -Chain and Induce a Regulatory Phenotype in Naive T Cells
Francesca Fallarino, Ursula Grohmann, Sylvaine You, Barbara C. McGrath, Douglas R. Cavener, Carmine Vacca, Ciriana Orabona, Roberta Bianchi, Maria L. Belladonna, Claudia Volpi, Pere Santamaria, Maria C. Fioretti, and Paolo Puccetti
- 6762 Reduced KIR2DL1 Recognition of MHC Class I Molecules Presenting Phosphorylated Peptides
Gili Betsler-Cohen, Gil Katz, Tsufit Gonen-Gross, Noam Stern, Tal I. Arnon, Hagit Achdout, Roi Gazit, and Ofer Mandelboim
- 6770 The Mannose Receptor Mediates Uptake of Soluble but Not of Cell-Associated Antigen for Cross-Presentation
Sven Burgdorf, Veronika Lukacs-Kornek, and Christian Kurts
- 6777 Deletion of Exon I of SMAD7 in Mice Results in Altered B Cell Responses
Ronggui Li, Alexander Rosendahl, Greger Brodin, Alec M. Cheng, Aive Ahgren, Christina Sundquist, Sarang Kulkarni, Tony Pawson, Carl-Henrik Heldin, and Rainer L. Heuchel
- 6785 Phosphatidylinositol 3-Kinase/Akt Positively Regulates Fas (CD95)-Mediated Apoptosis in Epidermal Cl41 Cells
Bin Lu, Liying Wang, Christian Stehlik, Djordje Medan, Chuanshu Huang, Shuiying Hu, Fei Chen, Xianglin Shi, and Yon Rojanasakul
- 6794 *Helicobacter pylori* CagA-Dependent Macrophage Migration Inhibitory Factor Produced by Gastric Epithelial Cells Binds to CD74 and Stimulates Procarcinogenic Events
Ellen J. Beswick, Irina V. Pinchuk, Giovanni Suarez, Johanna C. Sierra, and Victor E. Reyes
- 6802 Central Role for MyD88 in the Responses of Microglia to Pathogen-Associated Molecular Patterns
Nilufer Esen and Tammy Kielian

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 6812 The TCR C β FG Loop Regulates $\alpha\beta$ T Cell Development
Maki Touma, Hsiu-Ching Chang, Tetsuro Sasada, Maris Handley, Linda K. Clayton, and Ellis L. Reinherz
- 6824 A Role for MAPK in Feedback Inhibition of *Tcrb* Recombination
Annette M. Jackson and Michael S. Krangel
- 6831 Growth, Differentiation, and Malignant Transformation of Pre-B Cells Mediated by Inducible Activation of v-Abl Oncogene
Elizabeth A. Jacobsen, Olga Ananieva, Matthew L. Brown, and Yung Chang
- 6839 Identification of a Candidate Regulatory Element within the 5' Flanking Region of the Mouse *Igh* Locus Defined by Pro-B Cell-Specific Hypersensitivity Associated with Binding of PU.1, Pax5, and E2A
Inka Pawlitzky, Christina V. Angeles, Andrea M. Siegel, Michelle L. Stanton, Roy Riblet, and Peter H. Brodeur
- 6852 The Fas-Associated Death Domain Protein Is Required in Apoptosis and TLR-Induced Proliferative Responses in B Cells
Hongxia Z. Imtiyaz, Stephen Rosenberg, Yuhang Zhang, Ziaur S. M. Rahman, Ying-Ju Hou, Tim Manser, and Jianke Zhang
- 6862 Precursor B Cell Receptor Signaling Activity Can Be Uncoupled from Surface Expression
F. Betul Guloglu and Christopher A. J. Roman
- 6873 Evidence for a Domain-Swapped CD4 Dimer as the Coreceptor for Binding to Class II MHC
Akiko Maekawa, Bryan Schmidt, Barbara Fazekas de St. Groth, Yves-Henri Sanejouand, and Philip J. Hogg

IMMUNOGENETICS

- 6879 Development and Selection of Edited B Cells in B6.56R Mice
Debora R. Sekiguchi, Lenka Yunk, David Gary, Deepshikha Charan, Bhaskar Srivastava, David Allman, Martin G. Weigert, and Eline T. Luning Prak

HOST DEFENSE

- 6888 Immunologic Consequences of *Francisella tularensis* Live Vaccine Strain Infection: Role of the Innate Immune Response in Infection and Immunity
Leah E. Cole, Karen L. Elkins, Suzanne M. Michalek, Nilofer Qureshi, Linda J. Eaton, Prasad Rallabhandi, Natalia Cuesta, and Stefanie N. Vogel
- 6900 HIV-1 Adapts to a Retrocyclin with Cationic Amino Acid Substitutions That Reduce Fusion Efficiency of gp41
Amy L. Cole, Otto O. Yang, Andrew D. Warren, Alan J. Waring, Robert I. Lehrer, and Alexander M. Cole
- 6906 PU.1 and a TTTAAA Element in the Myeloid *Defensin-1* Promoter Create an Operational TATA Box That Can Impose Cell Specificity onto TFIID Function
Mariana Yaneva, Serena Kippenberger, Nan Wang, Qin Su, Margaret McGarvey, Arpi Nazarian, Lynne Lacomis, Hediye Erdjument-Bromage, and Paul Tempst
- 6918 F4/80⁺ Alternatively Activated Macrophages Control CD4⁺ T Cell Hyporesponsiveness at Sites Peripheral to Filarial Infection
Matthew D. Taylor, Anjanette Harris, Meera G. Nair, Rick M. Maizels, and Judith E. Allen
- 6928 Epitopes Derived by Incidental Translational Frameshifting Give Rise to a Protective CTL Response
Matthew B. Zook, Michael T. Howard, Gomathinayagam Sinnathamby, John F. Atkins, and Laurence C. Eisenlohr
- 6935 Identification of HLA-A*0201-Presented T Cell Epitopes Derived from the Oncofetal Antigen-Immature Laminin Receptor Protein in Patients with Hematological Malignancies
Sandra Siegel, Andreas Wagner, Birte Friedrichs, Anneke Wendeler, Lena Wendel, Dieter Kabelitz, Jörg Steinmann, Adel Barsoum, Joseph Coggin, James Rohrer, Peter Dreger, Norbert Schmitz, and Matthias Zeis
- 6945 Mature Hepatocyte Growth Factor/Scatter Factor on the Surface of Human Granulocytes Is Released by a Mechanism Involving Activated Factor Xa
Tomokazu Ohnishi, Kyoko Kakimoto, Kenjiro Bandow, Charles J. Lowenstein, Yasushi Daikuhara, and Tetsuya Matsuguchi
- 6954 Sequencing, Expression, and Functional Analyses Support the Candidacy of *Ncf2* in Susceptibility to *Salmonella* Typhimurium Infection in Wild-Derived Mice
Vanessa Sancho-Shimizu and Danielle Malo
- 6962 Innate Defense against Influenza A Virus: Activity of Human Neutrophil Defensins and Interactions of Defensins with Surfactant Protein D
Kevan L. Hartshorn, Mitchell R. White, Tesfaldet Teclé, Uffe Holmskov, and Erika C. Crouch
- 6973 Maintenance of HIV-Specific CD4⁺ T Cell Help Distinguishes HIV-2 from HIV-1 Infection
Melody G. Duvall, Assan Jaye, Tao Dong, Jason M. Brechley, Abraham S. Alabi, David J. Jeffries, Marianne van der Sande, Toyin O. Togun, Samuel J. McConkey, Daniel C. Douek, Andrew J. McMichael, Hilton C. Whittle, Richard A. Koup, and Sarah L. Rowland-Jones
- 6982 STAT1 Regulates IFN- $\alpha\beta$ - and IFN- γ -Dependent Control of Infection with *Chlamydia pneumoniae* by Nonhemopoietic Cells
Antonio Gigliotti Rothfuchs, Christian Trumstedt, Fabrizio Mattei, Giovanna Schiavoni, Åsa Hidmark, Hans Wigzell, and Martin E. Rotenberg

INFLAMMATION

- 6991 Leukocyte Recruitment to the Inflamed Glomerulus: A Critical Role for Platelet-Derived P-Selectin in the Absence of Rolling
Michael P. Kuligowski, A. Richard Kitching, and Michael J. Hickey
- 7000 Antifibrotic Activity of an Inhibitor of Group IIA Secretory Phospholipase A₂ in Young Spontaneously Hypertensive Rats
Scott Levick, David Loch, Barbara Rolfe, Robert C. Reid, David P. Fairlie, Stephen M. Taylor, and Lindsay Brown
- 7008 Different Stabilities of the Structurally Related Receptors for IgE and IgG on the Cell Surface Are Determined by Length of the Stalk Region in Their α -Chains
Toshiyuki Kubota, Kaori Mukai, Yoshiyuki Minegishi, and Hajime Karasuyama

- 7015 Decreased Capacity of Immune Cells to Cause Tissue Injury Mediates Kidney Ischemic Preconditioning
Melissa J. Burne-Taney, Manchang Liu, William M. Baldwin, Lorraine Racusen, and Hamid Rabb
- 7021 Identification of Small Heat Shock Protein B8 (HSP22) as a Novel TLR4 Ligand and Potential Involvement in the Pathogenesis of Rheumatoid Arthritis
Mieke F. Roelofs, Wilbert C. Boelens, Leo A. B. Joosten, Shabla Abdollahi-Roodsaz, Jeroen Geurts, Liza U. Wunderink, B. Willem Schreurs, Wim B. van den Berg, and Timothy R. D. J. Radstake
- 7028 Cytokine-Induced Hepatic Apoptosis Is Dependent on FGL2/Fibrolectin: The Role of Sp1/Sp3 and STAT1/PU.1 Composite *cis* Elements
Mingfeng Liu, Michael Mendicino, Qin Ning, Anand Ghanekar, Wei He, Ian McGilvray, Itay Shalev, David Pivato, David A. Clark, M. James Phillips, and Gary A. Levy
- 7039 Platelet-Activating Factor-Induced Clathrin-Mediated Endocytosis Requires β -Arrestin-1 Recruitment and Activation of the p38 MAPK Signalosome at the Plasma Membrane for Actin Bundle Formation
Nathan J. D. McLaughlin, Anirban Banerjee, Marguerite R. Kelber, Fabia Gamboni-Robertson, Christine Hamiel, Forest R. Sheppard, Ernest E. Moore, and Christopher C. Silliman
- 7051 Leukotriene A₄ Hydrolase Expression in PEL Cells Is Regulated at the Transcriptional Level and Leads to Increased Leukotriene B₄ Production
Meztili Arguello, Suzanne Paz, Eduardo Hernandez, Catherine Corriveau-Bourque, Lama M. Fawaz, John Hiscott, and Rongtuan Lin
- 7062 The Histamine H₄ Receptor Mediates Allergic Airway Inflammation by Regulating the Activation of CD4⁺ T Cells
Paul J. Dunford, Niall O'Donnell, Jason P. Riley, Kacy N. Williams, Lars Karlsson, and Robin L. Thurmond

CLINICAL IMMUNOLOGY

- 7071 Diagnostic and Therapeutic Potential of Amyloid-Reactive IgG Antibodies Contained in Human Sera
Brian O'Nuallain, Rudi Hrnčić, Jonathan S. Wall, Deborah T. Weiss, and Alan Solomon
- 7079 The Role of Noradrenergic Nerves in the Development of the Lymphoproliferative Disease in Fas-Deficient, *lpr/lpr* Mice
Adriana del Rey, Eduardo Roggero, Alexa Kabiersch, Martin Schäfer, and Hugo O. Besedovsky
- 7087 CXCR3 and Its Ligands in a Murine Model of Obliterative Bronchiolitis: Regulation and Function
Benjamin D. Medoff, John C. Wain, Edward Seung, Ryan Jakobek, Terry K. Means, Leo C. Ginns, Joshua M. Farber, and Andrew D. Luster
- 7096 Patients with Chronic Granulomatous Disease Have a Reduced Peripheral Blood Memory B Cell Compartment
Jack J. Blessing, Margarida M. Souto-Carneiro, William J. Savage, Margaret R. Brown, Cynthia Martinez, Sule Yavuz, Sebastian Brenner, Richard M. Siegel, Mitchell E. Horwitz, Peter E. Lipsky, Harry L. Malech, and Thomas A. Fleisber
- 7104 Identical TCR β -Chain Rearrangements in Streptococcal Angina and Skin Lesions of Patients with Psoriasis Vulgaris
Laura Diluvio, Sigrid Vollmer, Petra Besgen, Joachim W. Ellwart, Sergio Chimenti, and Joerg C. Prinz
- 7112 Carriage of *DRB1*13* Is Associated with Increased Posttreatment IgE Levels against *Schistosoma mansoni* Antigens and Lower Long-Term Reinfection Levels
Mark Booth, Marie A. Shaw, Danielle Carpenter, Sarah Joseph, Narcis B. Kabatereine, Henry C. Kariuki, Joseph K. Mwatha, Frances M. Jones, Brigitte J. Vennervald, John H. Ouma, and David W. Dunne
- 7119 Therapeutic Induction of Regulatory, Cytotoxic CD8⁺ T Cells in Multiple Sclerosis
Deepani K. Tennakoon, Riyaz S. Mehta, Sterling B. Ortega, Vijay Bhoj, Michael K. Racke, and Nitin J. Karandikar
- 7130 Corrections
- 7133 Author Index
- 7136 AAI Membership Application
- 7137 AAI Trainee Membership Application