



MicroVue[™] Complement
MULTIPLEX

9 Analytes = Comprehensive Analysis

Ba, Bb, C3a, C4a, C4d, C5a,
SC5b-9, Factor H, Factor I

LEARN MORE

For Research Use Only



182 (8)

J Immunol 2009; 182:4493-5152; ;
<http://www.jimmunol.org/content/182/8>

This information is current as
of May 26, 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.



4493 **IN THIS ISSUE**

LETTERS TO THE EDITOR

- 4495 Comment on “Reassessment of the Role of Mut S Homolog 5 in Ig Class Switch Recombination Shows Lack of Involvement in *cis*- and *trans*-Switching”

Hideharu Sekine, Ricardo C. Ferreira, Qiang Pan-Hammarström, Lennart Hammarström, Gary S. Gilkeson, and Timothy W. Behrens

- 4496 Response to Comment on “Reassessment of the Role of Mut S Homolog 5 in Ig Class Switch Recombination Shows Lack of Involvement in *cis*- and *trans*-Switching”

Jeroen E. J. Guikema, Carol E. Schrader, Stephen P. Baker, Winfried Edelmann, and Janet Stavnezer

- 4497 Comment on “Experimental Extracorporeal Photopheresis Inhibits the Sensitization and Effector Phases of Contact Hypersensitivity via Two Mechanisms: Generation of IL-10 and Induction of Regulatory T Cells”

Roberta Rizzo, Marina Stignani, Loredana Melchiorri, and Olavio R. Baricordi

BRIEF REVIEWS

- 4499 Myeloid-Derived Suppressor Cells: Linking Inflammation and Cancer

Suzanne Ostrand-Rosenberg and Pratima Sinha

CUTTING EDGE

- 4507 Cutting Edge: Lung Mucosal Th17-Mediated Responses Induce Polymeric Ig Receptor Expression by the Airway Epithelium and Elevate Secretory IgA Levels

Zeina Jaffar, Maria E. Ferrini, Lou A. Herritt, and Kevan Roberts

- 4512 Cutting Edge: IL-2 Immune Complexes As a Therapy for Persistent Virus Infection

Michael J. Molloy, Weijun Zhang, and Edward J. Usherwood

- 4516 Cutting Edge: A Critical Role of B and T Lymphocyte Attenuator in Peripheral T Cell Tolerance Induction

Xikui Liu, Maria Alexiou, Natalia Martin-Orozco, Yeonseok Chung, Roza I. Nurieva, Li Ma, Qiang Tian, George Kollias, Sijie Lu, Daniel Graf, and Chen Dong

On the cover: Dendritic cells (DC) infected with *Leishmania major* are stained with Giemsa. The dark purple large mass in each DC is the host cell nucleus and smaller dots are the nuclei of intracellular *L. major*. DM-deficient BALB/c mice are resistant to *L. major* infections whereas the wild-type mice are susceptible even though the parasite can infect the wild-type and DM^{-/-} DC in a comparable manner. Kamala, T., and N. Nanda. 2009. Protective response to *Leishmania major* in BALB/c mice requires antigen processing in the absence of DM. *J. Immunol.* 182: 4882–4890.

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.

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 4521 IL-22-Dependent Attenuation of T Cell-Dependent (ConA) Hepatitis in Herpes Virus Entry Mediator Deficiency
Christian Wahl, Ursula Maria Wegenka, Frank Leithäuser, Reinhold Schirmbeck, and Jörg Reimann
- 4529 Early Hematopoietic Zinc Finger Protein Prevents Tumor Cell Recognition by Natural Killer Cells
Rosanna La Rocca, Mariateresa Fulciniti, Tadepally Lakshmikanth, Maria Mesuraca, Talib Hassan Ali, Valerio Mazzei, Nicola Amodio, Lucio Catalano, Bruno Rotoli, Ouatbek Ouerfelli, Michele Grieco, Elio Gulletta, Heather M. Bond, Giovanni Morrone, Soldano Ferrone, and Ennio Carbone
- 4538 Induction of Tumor Cell Apoptosis or Necrosis by Conditional Expression of Cell Death Proteins: Analysis of Cell Death Pathways and In Vitro Immune Stimulatory Potential
Christine Lohmann, Andreas Muschaweckh, Susanne Kirschnek, Luise Jennen, Hermann Wagner, and Georg Hübner
- 4547 Fc γ RIIA and Fc γ RIIIB Mediate Nuclear Factor Activation through Separate Signaling Pathways in Human Neutrophils
Erick García-García, Georgina Nieto-Castañeda, Melissa Ruiz-Saldaña, Nancy Mora, and Carlos Rosales
- 4557 Costimulation of Dendritic Epidermal $\gamma\delta$ T Cells by a New NKG2D Ligand Expressed Specifically in the Skin
Michael I. Whang, Nadia Guerra, and David H. Raulet
- 4565 A Single-Chain H-2D^b Molecule Presenting an Influenza Virus Nucleoprotein Epitope Shows Enhanced Ability at Stimulating CD8⁺ T Cell Responses In Vivo
Michael J. Palmowski, Mathew Parker, Kaushik Choudhuri, Christopher Chiu, Margaret F. C. Callan, P. Anton van der Merwe, Vincenzo Cerundolo, and Keith G. Gould
- 4572 NK Cell Responsiveness Is Tuned Commensurate with the Number of Inhibitory Receptors for Self-MHC Class I: The Rheostat Model
Nathalie T. Joncker, Nadine C. Fernandez, Emmanuel Treiner, Eric Vivier, and David H. Raulet
- 4581 Thymic OX40 Expression Discriminates Cells Undergoing Strong Responses to Selection Ligands
Mark Klinger, Joong Kyu Kim, Stephen A. Chmura, Andrea Barczak, David J. Erle, and Nigel Killeen
- 4590 Early Infection Termination Affects Number of CD8⁺ Memory T Cells and Protective Capacities in *Listeria monocytogenes*-Infected Mice upon Rechallenge
Kuo-En Tseng, Cheng-Yu Chung, Weng Siong H'ng, and Shih-Lien Wang
- 4601 The Amino Acid Sequences Flanking an Antigenic Determinant Can Strongly Affect MHC Class I Cross-Presentation without Altering Direct Presentation
Xueying Ma, Amparo Serna, Ren-Huan Xu, and Luis J. Sigal
- 4608 Rabbit Polyclonal Anti-Mouse Thymocyte Globulin Administration Alters Dendritic Cell Profile and Function in NOD Mice to Suppress Diabetogenic Responses
Yanfei Huang, Matthew Parker, Changqing Xia, Ruihua Peng, Clive Wasserfall, Tracy Clarke, Lizhen Wu, Tayseer Chowdhry, Martha Campbell-Thompson, John Williams, Michael Clare-Salzler, Mark A. Atkinson, and Karl L. Womer
- 4616 The A_{2B} Adenosine Receptor Impairs the Maturation and Immunogenicity of Dendritic Cells
Jeffrey M. Wilson, William G. Ross, Oma N. Agbai, Renea Frazier, Robert A. Figler, Jayson Rieger, Joel Linden, and Peter B. Ernst
- 4624 Calcitriol Suppresses Antiretinal Autoimmunity through Inhibitory Effects on the Th17 Effector Response
Jun Tang, Ru Zhou, Dror Luger, Wei Zhu, Phyllis B. Silver, Rafael S. Grajewski, Shao-Bo Su, Chi-Chao Chan, Luciano Adorini, and Rachel R. Caspi
- 4633 Activin A Promotes the TGF- β -Induced Conversion of CD4⁺CD25⁻ T Cells into Foxp3⁺ Induced Regulatory T Cells
Samuel Huber, Felix R. Stahl, Jörg Schrader, Stefan Lüth, Katrin Presser, Antonella Carambia, Richard A. Flavell, Sabine Werner, Manfred Blessing, Johannes Herkel, and Christoph Schramm
- 4641 Selective Requirement for c-Myc at an Early Stage of V α 14i NKT Cell Development
Marcin P. Mycko, Isabel Ferrero, Anne Wilson, Wei Jiang, Teresa Bianchi, Andreas Trumpp, and H. Robson MacDonald

- 4649 A Positive Feedback Loop of IL-21 Signaling Provoked by Homeostatic CD4⁺CD25⁻ T Cell Expansion Is Essential for the Development of Arthritis in Autoimmune K/BxN Mice
Eunkyeong Jang, Sin-Hye Cho, Hyunjoo Park, Doo-Jin Paik, Jung Mogg Kim, and Jeehee Youn
- 4657 Langerhans Cells Are Not Required for the CD8 T Cell Response to Epidermal Self-Antigens
Laura S. Bursch, Benjamin E. Rich, and Kristin A. Hogquist
- 4665 Maintenance of Peripheral Tolerance through Controlled Tissue Homing of Antigen-Specific T Cells in K14-mOVA Mice
Teresa Bianchi, Laura B. Pincus, Marc-André Wurbel, Benjamin E. Rich, Thomas S. Kupper, Robert C. Fuhlbrigge, and Marianne Boes
- 4675 Tumor Recognition and Self-Recognition Induce Distinct Transcriptional Profiles in Antigen-Specific CD4 T Cells
Derese Getnet, Charles H. Maris, Edward L. Hipkiss, Joseph F. Grosso, Timothy J. Harris, Hung-Rong Yen, Tullia C. Bruno, Satoshi Wada, Adam Adler, Robert W. Georgantas, Chunfa Jie, Monica V. Goldberg, Drew M. Pardoll, and Charles G. Drake
- 4686 Inducible MHC Class II Expression by Mast Cells Supports Effector and Regulatory T Cell Activation
Taku Kambayashi, Eric J. Allenspach, John T. Chang, Tao Zou, Jonathan E. Shoag, Steven L. Reiner, Andrew J. Caton, and Gary A. Koretzky
- 4696 Inositol 1,4,5-Trisphosphate 3-Kinase B Is a Negative Regulator of BCR Signaling That Controls B Cell Selection and Tolerance Induction
Andrew T. Miller, Daniel R. Beisner, Daorong Liu, and Michael P. Cooke
- 4705 Nerve Growth Factor and Neurotrophin-3 Mediate Survival of Pulmonary Plasma Cells during the Allergic Airway Inflammation
Melanie Abram, Michael Wegmann, Verena Fokuhl, Sanchaita Sonar, Elke Olga Luger, Sebastian Kerzel, Andreas Radbruch, Harald Renz, and Michael Zemlin
- 4713 Superantigen- and TLR-Dependent Activation of Tonsillar B Cells after Receptor-Mediated Endocytosis
Johan Jendholm, Matthias Mörgelin, Maria Laura A. Perez Vidakovics, Michael Carlsson, Hakon Leffler, Lars-Olaf Cardell, and Kristian Riesbeck
- 4721 The Generation of Influenza-Specific Humoral Responses Is Impaired in ST6Gal I-Deficient Mice
Junwei Zeng, Hye Mee Joo, Bheemreddy Rajini, Jens P. Wrämmert, Mark Y. Sangster, and Thandi M. Onami
- 4728 Adaptive Immune Response in JAM-C-Deficient Mice: Normal Initiation but Reduced IgG Memory
Claudia Zimmerli, Boris P. L. Lee, Gaby Palmer, Cem Gabay, Ralf Adams, Michel Aurrand-Lions, and Beat A. Imhof
- 4737 IL-9 Promotes IL-13-Dependent Paneth Cell Hyperplasia and Up-Regulation of Innate Immunity Mediators in Intestinal Mucosa
Valérie Steenwinckel, Jamila Louahed, Muriel M. Lemaire, Caroline Sommereyns, Guy Warnier, Andrew McKenzie, Frank Brombacher, Jacques Van Snick, and Jean-Christophe Renauld
- 4744 Statins Impair CD1d-Mediated Antigen Presentation through the Inhibition of Prenylation
Masood A. Khan, Richard M. Gallo, Gourapura J. Renukaradhya, Wenjun Du, Jacquelyn Gervay-Hague, and Randy R. Bruckiewicz
- 4751 Association of HIV-Specific and Total CD8⁺ T Memory Phenotypes in Subtype C HIV-1 Infection with Viral Set Point
Wendy A. Burgers, Catherine Riou, Mandla Mlotshwa, Pholo Maenetje, Debra de Assis Rosa, Jason Brenchley, Koleka Mlisana, Daniel C. Douek, Richard Koup, Mario Roederer, Guy de Bruyn, Salim Abdool Karim, Carolyn Williamson, Clive M. Gray, and the CAPRISA 002 Acute Infection Study Team
- 4762 Drak2 Is Upstream of p70S6 Kinase: Its Implication in Cytokine-Induced Islet Apoptosis, Diabetes, and Islet Transplantation
Jianning Mao, Hongyu Luo, Bing Han, Richard Bertrand, and Jiangping Wu
- 4771 CD30 Is Required for CCL21 Expression and CD4 T Cell Recruitment in the Absence of Lymphotoxin Signals
Vasileios Bekiaris, Fabrina Gaspal, Mi-Yeon Kim, David R. Withers, Fiona M. McConnell, Graham Anderson, and Peter J. L. Lane

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 4776 Interaction of Bap31 and MHC Class I Molecules and Their Traffic Out of the Endoplasmic Reticulum
Fumiyoshi Abe, Nancy Van Prooyen, John J. Ladasky, and Michael Edidin
- 4784 Natural Lipid Ligands Associated with Human CD1d Targeted to Different Subcellular Compartments
Weiming Yuan, Suk-Jo Kang, James E. Evans, and Peter Cresswell
- 4792 Evolution of the Ikaros Gene Family: Implications for the Origins of Adaptive Immunity
Liza B. John, Simon Yoong, and Alister C. Ward
- 4800 Brief Residence at the Plasma Membrane of the MHC Class I-Related Chain B Is Due to Clathrin-Mediated Cholesterol-Dependent Endocytosis and Shedding
Sonia Agüera-González, Philippe Boutet, Hugh T. Reyburn, and Mar Valés-Gómez
- 4809 Steric Hindrance and Fast Dissociation Explain the Lack of Immunogenicity of the Minor Histocompatibility HA-1^{Arg} Null Allele
Eric Spierings, Stéphanie Gras, Jean-Baptiste Reiser, Bregje Mommaas, Mathilde Almekinders, Michel G. D. Kester, Anne Chouquet, Madalen Le Gorrec, Jan W. Drijfhout, Ferry Ossendorp, Dominique Housset, and Els Goulmy
- 4817 Trimolecular Complex Formation of IgE, FcεRI, and a Recombinant Nonanaphylactic Single-Chain Antibody Fragment with High Affinity for IgE
Christian Lupinek, Kenneth H. Roux, Sylvia Laffer, Ingrid Rauter, Kavita Reginald, Michael Kneidinger, Katharina Blatt, Tanja Ball, Ines Pree, Beatrice Jahn-Schmid, Jean-Pierre Allam, Natalija Novak, Anja Drescher, Franz Kricek, Peter Valent, Hakan Englund, and Rudolf Valenta
- 4830 *N*-Glycosylation Enhances Presentation of a MHC Class I-Restricted Epitope from Tyrosinase
Marina Ostankovič, Michelle Altrich-VanLith, Valentina Robila, and Victor H. Engelhard
- 4836 Thrombin Binding Predicts the Effects of Sequence Changes in a Human Monoclonal Antiphospholipid Antibody on Its In Vivo Biologic Actions
Ian Giles, Charis Pericleous, Xiaowei Liu, Jasmine Ehsanullah, Lindsey Clarke, Paul Brogan, Marvin Newton-West, Robert Swerlick, Anastasia Lambrianides, Pojen Chen, David Latchman, David Isenberg, Silvia Pierangeli, and Anisur Rahman
- 4844 Critical and Multiple Roles for the CD3ε Intracytoplasmic Tail in Double Negative to Double Positive Thymocyte Differentiation
Jean-Francois Brodeur, Samantha Li, Maria da Silva Martins, Louise Larose, and Vibhuti P. Dave

HOST DEFENSE

- 4854 Selective Transcriptional Down-Regulation of Human Rhinovirus-Induced Production of CXCL10 from Airway Epithelial Cells via the MEK1 Pathway
Raza S. Zabeer, Rommy Koetzler, Neil S. Holden, Shahina Wiehler, and David Proud
- 4865 A Protective Role for Dengue Virus-Specific CD8⁺ T Cells
Lauren E. Yauch, Raphaël M. Zellweger, Maya F. Kotturi, Afrina Qutubuddin, John Sidney, Bjoern Peters, Tyler R. Prestwood, Alessandro Sette, and Sujan Shrestha
- 4874 Host-Derived Interleukin-1α Is Important in Determining the Immunogenicity of 3-Methylcholantrene Tumor Cells
Moshe Elkabets, Yakov Krelm, Shahar Dotan, Adelheid Cerwenka, Angel Porgador, Rachel G. Lichtenstein, Malka R. White, Margot Zoller, Yoichizo Iwakura, Charles A. Dinarello, Elena Voronov, and Ron N. Apte
- 4882 Protective Response to *Leishmania major* in BALB/c Mice Requires Antigen Processing in the Absence of DM
Tirumalai Kamala and Navreet K. Nanda
- 4891 Group V Secretory Phospholipase A₂ Modulates Phagosome Maturation and Regulates the Innate Immune Response against *Candida albicans*
Barbara Balestrieri, Akiko Maekawa, Wei Xing, Michael H. Gelb, Howard R. Katz, and Jonathan P. Arm
- 4899 Differential Requirements for Protection against Mucosal Challenge with *Francisella tularensis* in the Presence versus Absence of Cholera Toxin B and Inactivated *F. tularensis*
Constantine Bitsakis, Deepak B. Rawool, Ying Li, Nitin V. Kurkure, Bibiana Iglesias, and Edmund J. Gosselin

- 4910 The NF- κ B RelA Subunit Confers Resistance to *Leishmania major* by Inducing Nitric Oxide Synthase 2 and Fas Expression but Not Th1 Differentiation
Setsuko Mise-Omata, Etsushi Kuroda, Tsutomu Sugiura, Uki Yamashita, Yuichi Obata, and Takahiro S. Doi
- 4917 A Novel Hybrid Yeast-Human Network Analysis Reveals an Essential Role for FNBP1L in Antibacterial Autophagy
Alan Huett, Aylwin Ng, Zhifang Cao, Petric Kuballa, Masaaki Komatsu, Mark J. Daly, Daniel K. Podolsky, and Rammik J. Xavier
- 4931 Important Role for CC Chemokine Ligand 2-Dependent Lung Mononuclear Phagocyte Recruitment to Inhibit Sepsis in Mice Infected with *Streptococcus pneumoniae*
Christine Winter, Wiebke Herbold, Regina Maus, Florian Langer, David E. Briles, James C. Paton, Tobias Welte, and Ulrich A. Maus
- 4938 Requisite Role for the Dectin-1 β -Glucan Receptor in Pulmonary Defense against *Aspergillus fumigatus*
Jessica L. Werner, Allison E. Metz, Dawn Horn, Trenton R. Schoeb, Matthew M. Hewitt, Lisa M. Schwiebert, Ines Faro-Trindade, Gordon D. Brown, and Chad Steele
- 4947 Lipocalin 2 Is Required for Pulmonary Host Defense against *Klebsiella* Infection
Yvonne R. Chan, Jessica S. Liu, Derek A. Pociask, Mingquan Zheng, Timothy A. Mietzner, Thorsten Berger, Tak W. Mak, Matthew C. Clifton, Roland K. Strong, Prabir Ray, and Jay K. Kolls

INFLAMMATION

- 4957 Contribution of Adenosine A2B Receptors to Inflammatory Parameters of Experimental Colitis
Julia-Stefanie Frick, Christopher F. MacManus, Melanie Scully, Louise E. Glover, Holger K. Eltzschig, and Sean P. Colgan
- 4965 Heat Shock Protein 96 Is Elevated in Rheumatoid Arthritis and Activates Macrophages Primarily via TLR2 Signaling
Qi-Quan Huang, Rudina Sobkoviak, Angela R. Jockbeck-Clark, Bo Shi, Arthur M. Mandelin II, Paul Peter Tak, G. Kenneth Haines III, Christopher V. Nicchitta, and Richard M. Pope
- 4974 Formyl Peptide Receptor-Like 2 Is Expressed and Functional in Plasmacytoid Dendritic Cells, Tissue-Specific Macrophage Subpopulations, and Eosinophils
Thalie Devosse, Aude Guillabert, Nicky D'Haene, Alix Berton, Patricia De Nadai, Sophie Noel, Maryse Brait, Jean-Denis Franssen, Silvano Sozzani, Isabelle Salmon, and Marc Parmentier
- 4985 Role of the Heparan Sulfate Proteoglycan Syndecan-1 (CD138) in Delayed-Type Hypersensitivity
Behzad Kharabi Masouleh, Gerdy B. Ten Dam, Martin K. Wild, Ruth Seelige, Johan van der Vlag, Angeliqne L. Rops, Frank G. Echtermeyer, Dietmar Vestweber, Toin H. van Kuppevelt, Ludwig Kiesel, and Martin Gotte
- 4994 MicroRNA-21 Is Up-Regulated in Allergic Airway Inflammation and Regulates IL-12p35 Expression
Thomas X. Lu, Ariel Munitz, and Marc E. Rothenberg
- 5003 IL-20 Is Regulated by Hypoxia-Inducible Factor and Up-Regulated after Experimental Ischemic Stroke
Wei-Yu Chen and Ming-Shi Chang
- 5013 Functional Blocking Monoclonal Antibodies against IL-12p40 Homodimer Inhibit Adoptive Transfer of Experimental Allergic Encephalomyelitis
Susanta Mondal, Avik Roy, and Kalipada Pahan
- 5024 The Pattern Recognition Receptor CD36 Is a Chondrocyte Hypertrophy Marker Associated with Suppression of Catabolic Responses and Promotion of Repair Responses to Inflammatory Stimuli
Denise L. Cecil, C. Thomas G. Appleton, Monika D. Polewski, John S. Mort, Ann Marie Schmidt, Alison Bendele, Frank Beier, and Robert Terkeltaub
- 5032 The Atypical Chemokine Receptor D6 Contributes to the Development of Experimental Colitis
Yvonne Bordon, Chris A. H. Hansell, David P. Sester, Mairi Clarke, Allan McI. Mowat, and Robert J. B. Nibbs
- 5041 A Novel and Critical Role for Tyrosine 663 in Platelet Endothelial Cell Adhesion Molecule-1 Trafficking and Transendothelial Migration
Bidisha Dasgupta, Eric Dufour, Zahra Mamdoub, and William A. Muller

- 5052 P2X7 Receptor-Stimulated Secretion of MHC Class II-Containing Exosomes Requires the ASC/NLRP3 Inflammasome but Is Independent of Caspase-1
Yan Qu, Lakshmi Ramachandra, Susanne Mohr, Luigi Franchi, Clifford V. Harding, Gabriel Nunez, and George R. Dubyak
- 5063 p53 Attenuates Lipopolysaccharide-Induced NF- κ B Activation and Acute Lung Injury
Gang Liu, Young-Jun Park, Yuko Tsuruta, Emmanuel Lorne, and Edward Abraham
- 5072 Mitocryptide-2: Purification, Identification, and Characterization of a Novel Cryptide That Activates Neutrophils
Hidehito Mukai, Tetsuo Seki, Hiroko Nakano, Yoshinori Hokari, Toshifumi Takao, Masanori Kawanami, Hiroyuki Tsukagoshi, Hirokazu Kimura, Yoshiaki Kiso, Yasutsugu Shimonishi, Yoshisuke Nishi, and Eisuke Munekata
- 5081 Adaptor Proteins and Ras Synergistically Regulate IL-1-Induced ADAMTS-4 Expression in Human Chondrocytes
Rasheed Ahmad, Judith Sylvester, Mushtaq Ahmad, and Muhammad Zafarullah
- 5088 Bruton's Tyrosine Kinase Is Involved in miR-346-Related Regulation of IL-18 Release by Lipopolysaccharide-Activated Rheumatoid Fibroblast-Like Synoviocytes
Ghada Absaleh, Guillaume Suffert, Noha Semaan, Tom Juncker, Laurent Frenzel, Jacques-Eric Gottenberg, Jean Sibilia, Sébastien Pfeffer, and Dominique Wachsmann
- 5098 Acidic Mammalian Chitinase Regulates Epithelial Cell Apoptosis via a Chitinolytic-Independent Mechanism
Dominik Hartl, Chuan Hua He, Babara Koller, Carla A. Da Silva, Yasushi Kobayashi, Chun Geun Lee, Richard A. Flavell, and Jack A. Elias
- 5107 Pathogenesis of Steroid-Resistant Airway Hyperresponsiveness: Interaction between IFN- γ and TLR4/MyD88 Pathways
Ming Yang, Rakesh K. Kumar, and Paul S. Foster
- 5116 Induction of Airway Hyperreactivity by IL-25 Is Dependent on a Subset of Invariant NKT Cells Expressing IL-17RB
Philippe Stock, Vincent Lombardi, Viola Kohlrautz, and Omid Akbari
- 5123 A Protective Role for C5a in the Development of Allergic Asthma Associated with Altered Levels of B7-H1 and B7-DC on Plasmacytoid Dendritic Cells
Xun Zhang, Ian P. Lewkowich, Gabriele Köhl, Jennifer R. Clark, Marsha Wills-Karp, and Jörg Köhl

CLINICAL IMMUNOLOGY

- 5131 HLA-DQ8 (DQB1*0302)-Restricted Th17 Cells Exacerbate Experimental Autoimmune Encephalomyelitis in HLA-DR3-Transgenic Mice
Ashutosh Mangalam, David Luckey, Eati Basal, Megan Jackson, Michele Smart, Moses Rodriguez, and Chella David
- 5140 Enrichment of Human CD4⁺ V α 24/V β 11 Invariant NKT Cells in Intrahepatic Malignant Tumors
Gabriel Bricard, Valerie Cesson, Estelle Deveau, Hanifa Bouzourene, Catherine Barbey, Nathalie Rufier, Jin S. Im, Pedro M. Alves, Olivier Martinet, Nermin Halkic, Jean-Charles Cerottini, Pedro Romero, Steven A. Porcelli, H. Robson MacDonald, and Daniel E. Speiser
- 5152 CORRECTIONS
- 5153 AUTHOR INDEX