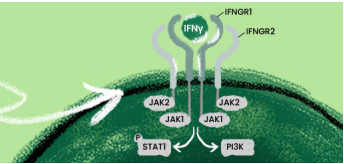


SB Sino Biological

IFN- γ : A Key Player in Cancer Immunity

High-quality Recombinant IFN- γ and Receptor Proteins

Learn More



 *The Journal of*
Immunology

183 (5)

J Immunol 2009; 183:2889-3551; ;
<http://www.jimmunol.org/content/183/5>

This information is current as
of September 27, 2022.

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.



2889 IN THIS ISSUE

LETTERS TO THE EDITOR

- 2891 Comment on “Direct Hematological Toxicity and Illegitimate Chromosomal Recombination Caused by the Systemic Activation of CreER^{T2}”
Anja Uhmann, Kai Dittmann, Jürgen Wienands, and Heidi Hahn
- 2891 Response to Comment on “Direct Hematological Toxicity and Illegitimate Chromosomal Recombination Caused by the Systemic Activation of CreER^{T2}”
Motoko Yanagita, Atsuko Higashi, Tomokatsu Ikawa, Masamichi Muramatsu, Aris N. Economides, and Hiroshi Kawamoto

PILLARS OF IMMUNOLOGY

- 2893 Where the Confusion Began: Cloning the First Chemokine Receptors
Barrett J. Rollins
- 2895 Pillars Article: Structure and Functional Expression of a Human Interleukin-8 Receptor. *Science* 1991. 253: 1278–1280.
William E. Holmes, James Lee, Wun-jing Kuang, Glenn C. Rice, and William I. Wood
- 2898 Pillars Article: Cloning of Complementary DNA Encoding a Functional Human Interleukin-8 Receptor. *Science* 1991. 253: 1280–1283.
Phillip M. Murphy and H. Lee Tiffany

BRIEF REVIEWS

- 2903 CD4-CD8 Lineage Differentiation: Thpok-ing into the Nucleus
Lie Wang and Rémy Bosselut

CUTTING EDGE

- 2911 Cutting Edge: IL-15-Independent NK Cell Response to Mouse Cytomegalovirus Infection
Joseph C. Sun, Averil Ma, and Lewis L. Lanier

On the cover: Modeled pocket 6 of HLA-DRB1*0901 (shown with p6Lys in foreground), uniquely accommodates a wide range of residues (acidic, aliphatic, polar, and basic), due to the arrangement of three acidic and two basic residues (shown in stick form). β 9Lys swings into this pocket although normally found pointing into neighboring pocket 9. James, E. A., A. K. Moustakas, J. Bui, R. Nouv, G. K. Papadopoulos, and W. W. Kwok. 2009. The binding of antigenic peptides to HLA-DR is influenced by interactions between pocket 6 and pocket 9. *J. Immunol.* 183: 3249–3258.

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

- 2915 Type I Interferon (IFN α) Acts Directly on Human Memory CD4⁺ T Cells Altering Their Response to Antigen
Kathleen M. E. Gallagher, Sarah Lauder, Ian W. Rees, Awen M. Gallimore, and Andrew J. Godkin
- 2921 C3 Promotes Expansion of CD8⁺ and CD4⁺ T Cells in a *Listeria monocytogenes* Infection
Yumi Nakayama, Shin-Il Kim, Eui Ho Kim, John D. Lambris, Matyas Sandor, and M. Suresh
- 2932 IFN- γ , as Secreted during an Alloresponse, Induces Differentiation of Monocytes into Tolerogenic Dendritic Cells, Resulting in FoxP3⁺ Regulatory T Cell Promotion
Assia Eljaafari, Yin-Ping Li, and Pierre Miossec
- 2946 Superantigen-Activated Regulatory T Cells Inhibit the Migration of Innate Immune Cells and the Differentiation of Naive T Cells
Yakup Tanriver, Alfonso Martín-Fontecha, Kulachelvy Ratnasothy, Giovanna Lombardi, and Robert Lechler
- 2957 High Frequencies of Functionally Competent Circulating Tax-Specific CD8⁺ T Cells in Human T Lymphotropic Virus Type 2 Infection
André L. A. Oliveira, Hitoshi Hayakawa, Doris Schor, Ana Claudia C. B. Leite, Otávio M. Espindola, Allison Waters, Jonathan Dean, Derek G. Doherty, Abelardo Q.-C. Araújo, and William W. Hall
- 2966 Roles of the TRAF2/3 Binding Site in Differential B Cell Signaling by CD40 and Its Viral Oncogenic Mimic, LMP1
John P. Graham, Carissa R. Moore, and Gail A. Bishop
- 2974 Antigen Receptor Signals Rescue B Cells from TLR Tolerance
Jayakumar S. Poovassery, Tony J. Vanden Bush, and Gail A. Bishop
- 2984 TLR Triggering on Tolerogenic Dendritic Cells Results in TLR2 Up-Regulation and a Reduced Proinflammatory Immune Program
Sonia Chamorro, Juan J. García-Vallejo, Wendy W. J. Unger, Rosette J. Fernandes, Sven C. M. Bruijns, Sandra Laban, Bart O. Roep, Bert A. 't Hart, and Yvette van Kooyk
- 2995 Jagged1 on Dendritic Cells and Notch on CD4⁺ T Cells Initiate Lung Allergic Responsiveness by Inducing IL-4 Production
Masakazu Okamoto, Hiroyuki Matsuda, Anthony Joetham, Joseph J. Lucas, Joanne Domenico, Koji Yasutomo, Katsuyuki Takeda, and Erwin W. Gelfand
- 3004 Survival and Migration of Human Dendritic Cells Are Regulated by an IFN- α -Inducible Axl/Gas6 Pathway
Sara Scutera, Tiziana Fraone, Tiziana Musso, Paola Cappello, Silvia Rossi, Daniele Pierobon, Zane Orinska, Ralf Paus, Silvia Bulfone-Paus, and Mirella Giovarelli
- 3014 Mast Cells Down-Regulate CD4⁺CD25⁺ T Regulatory Cell Suppressor Function via Histamine H1 Receptor Interaction
Nicholas A. Forward, Suzanne J. Furlong, Yongjun Yang, Tong-Jun Lin, and David W. Hoskin
- 3023 The Gli3 Transcription Factor Expressed in the Thymus Stroma Controls Thymocyte Negative Selection Via Hedgehog-Dependent and -Independent Mechanisms
Ariadne L. Hager-Theodorides, Anna L. Furmanski, Susan E. Ross, Susan V. Outram, Nicola J. Rowbotham, and Tessa Crompton
- 3033 Basophils Can Directly Present or Cross-Present Antigen to CD8 Lymphocytes and Alter CD8 T Cell Differentiation into IL-10-Producing Phenotypes
Sohee Kim, Tao Shen, and Booki Min
- 3040 Inhibition of Thymic Adipogenesis by Caloric Restriction Is Coupled with Reduction in Age-Related Thymic Involution
Hyunwon Yang, Yun-Hee Youm, and Vishwa Deep Dixit

- 3053 Crucial Contribution of Thymic Sirp α^+ Conventional Dendritic Cells to Central Tolerance against Blood-Borne Antigens in a CCR2-Dependent Manner
Tomohisa Baba, Yasunari Nakamoto, and Naofumi Mukaida
- 3064 Secretion and Biological Activity of Short Signal Peptide IL-15 Is Chaperoned by IL-15 Receptor Alpha In Vivo
Cristina Bergamaschi, Rashmi Jalab, Viraj Kulkarni, Margherita Rosati, Gen-Mu Zhang, Candido Alicea, Andrei S. Zolotukhin, Barbara K. Felber, and George N. Pavlakis
- 3073 CCR7 Deficiency in NOD Mice Leads to Thyroiditis and Primary Hypothyroidism
Andrea P. Martin, Tatjana Marinkovic, Claudia Canasto-Chibuque, Rauf Latif, Jay C. Unkeless, Terry F. Davies, Yousuke Takahama, Glaucia C. Furtado, and Sergio A. Lira
- 3081 Compound A, a Plant Origin Ligand of Glucocorticoid Receptors, Increases Regulatory T Cells and M2 Macrophages to Attenuate Experimental Autoimmune Neuritis with Reduced Side Effects
Zhiren Zhang, Zhi-Yuan Zhang, and Hermann J. Schliesener
- 3092 T Cell Activation by Heat Shock Protein 70 Vaccine Requires TLR Signaling and Scavenger Receptor Expressed by Endothelial Cells-1
Jianlin Gong, Bangmin Zhu, Ayesha Murshid, Hideki Adachi, Baizheng Song, Allegra Lee, Chunlei Liu, and Stuart K. Calderwood
- 3099 The C-Type Lectin-Like Receptor CLEC-1, Expressed by Myeloid Cells and Endothelial Cells, Is Up-Regulated by Immunoregulatory Mediators and Moderates T Cell Activation
Pamela Thebault, Natacha Lhermite, Gaëlle Tilly, Laëtitia Le Texier, Thibaut Quillard, Michele Heslan, Ignacio Anegón, Jean-Paul Soulillou, Sophie Brouard, Beatrice Charreau, Maria-Cristina Cuturi, and Elise Chiffolleau
- 3109 Requirement for DNA CpG Content in TLR9-Dependent Dendritic Cell Activation Induced by DNA-Containing Immune Complexes
Kei Yasuda, Christophe Richez, Melissa B. Uccellini, Rocco J. Richards, Ramon G. Bonegio, Shizuo Akira, Marc Monestier, Ronald B. Corley, Gregory A. Viglianti, Ann Marshak-Rothstein, and Ian R. Rifkin
- 3118 TCR Repertoire and Foxp3 Expression Define Functionally Distinct Subsets of CD4⁺ Regulatory T Cells
Michał Kuczma, Iwona Pawlikowska, Magdalena Kopij, Robert Podolsky, Grzegorz A. Rempala, and Piotr Kraj
- 3130 Self-Peptides Prolong Survival in Murine Autoimmunity via Reduced IL-2/IL-7-Mediated STAT5 Signaling, CD8 Coreceptor, and V α 2 Down-Regulation
Jan Guetermuth, Kristine E. Nograles, Fumi Miyagawa, Emily Nelson, Young-Hun Cho, and Stephen I. Katz
- 3139 Antigen Affinity Controls Rapid T-Dependent Antibody Production by Driving the Expansion Rather than the Differentiation or Extrafollicular Migration of Early Plasmablasts
Tyani D. Chan, Dominique Gatto, Katherine Wood, Tabra Camidge, Antony Basten, and Robert Brink
- 3150 Smallpox Inhibitor of Complement Enzymes (SPICE): Dissecting Functional Sites and Abrogating Activity
M. Kathryn Liszewski, Marilyn K. Leung, Richard Hauhart, Celia J. Fang, Paula Bertram, and John P. Atkinson
- 3160 The Role of IL-23/IL-17 Axis in Lupus Nephritis
Zheng Zhang, Vasileios C. Kyttaris, and George C. Tsokos
- 3170 IL-6 Signaling in Psoriasis Prevents Immune Suppression by Regulatory T Cells
Wendy A. Goodman, Alan D. Levine, Jessica V. Massari, Hideaki Sugiyama, Thomas S. McCormick, and Kevin D. Cooper
- 3177 Modulation of Single-Cell IgG Secretion Frequency and Rates in Human Memory B Cells by CpG DNA, CD40L, IL-21, and Cell Division
Alicia D. Henn, Jonathan Rebbahn, Miguel A. Brown, Alison J. Murphy, Mircea N. Coca, Ollivier Hyrien, Tina Pellegrin, Tim Mosmann, and Martin S. Zand

- 3188 IFN Regulatory Factor 8 Regulates MDM2 in Germinal Center B Cells
Jeff X. Zhou, Chang Hoon Lee, Chen Feng Qi, Hongsheng Wang, Zobreh Naghashfar, Sadia Abbasi, and Herbert C. Morse III
- 3195 In Vivo Sensitized and In Vitro Activated B Cells Mediate Tumor Regression in Cancer Adoptive Immunotherapy
Qiao Li, Seagal Teitz-Tennenbaum, Elizabeth J. Donald, Mu Li, and Alfred E. Chang
- 3204 Elucidation of CXCR7-Mediated Signaling Events and Inhibition of CXCR4-Mediated Tumor Cell Transendothelial Migration by CXCR7 Ligands
Brian A. Zabel, Yu Wang, Susanna Lewén, Robert D. Berahovich, Mark E. T. Penfold, Penglie Zhang, Jay Powers, Bretton C. Summers, Zhenhua Miao, Bin Zhao, Ali Jalili, Anna Janowska-Wieczorek, Juan C. Jaen, and Thomas J. Schall
- 3212 X-linked Foxp3 (Scurfy) Mutation Dominantly Inhibits Submandibular Gland Development and Inflammation Respectively through Adaptive and Innate Immune Mechanisms
Rahul Sharma, Umesh S. Deshmukh, Lingjie Zheng, Shu Man Fu, and Shyr-Te Ju
- 3219 Tissue-Specific Homing and Expansion of Donor NK Cells in Allogeneic Bone Marrow Transplantation
Janelle A. Olson, Robert Zeiser, Andreas Beilhack, Joshua J. Goldman, and Robert S. Negrin
- 3229 Novel Reporter Mouse Reveals Constitutive and Inflammatory Expression of IFN- β In Vivo
Stefan Lienenklaus, Marius Cornitescu, Natalia Ziętara, Marcin Łyszkiewicz, Nelson Gekara, Jadwiga Jabłońska, Frank Edenhofer, Klaus Rajewsky, Dunja Bruder, Martin Hafner, Peter Staeheli, and Siegfried Weiss
- 3237 Activation-Induced Cytidine Deaminase Expression and Activity in the Absence of Germinal Centers: Insights into Hyper-IgM Syndrome
Masayuki Kuraoka, Dongmei Liao, Kaiyong Yang, Sallie D. Allgood, Marc C. Levesque, Garnett Kelsoe, and Yoshihiro Ueda

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 3249 The Binding of Antigenic Peptides to HLA-DR Is Influenced by Interactions between Pocket 6 and Pocket 9
Eddie A. James, Antonis K. Moustakas, John Bui, Randi Nouw, George K. Papadopoulos, and William W. Kwok
- 3259 Peroxisome Proliferator-Activated Receptor γ Agonist Down-Regulates IL-17 Expression in a Murine Model of Allergic Airway Inflammation
Seoung Ju Park, Kyung Sun Lee, So Ri Kim, Kyung Hoon Min, Yeong Hun Choe, Hee Moon, Han Jung Chae, Wan Hee Yoo, and Yong Chul Lee
- 3268 Phosphorylation of Nur77 by the MEK-ERK-RSK Cascade Induces Mitochondrial Translocation and Apoptosis in T Cells
Aibo Wang, Jonathan Rud, Chris M. Olson Jr., Juan Anguita, and Barbara A. Osborne
- 3278 Membrane-Bound Fas Ligand Requires RIP1 for Efficient Activation of Caspase-8 within the Death-Inducing Signaling Complex
Michael J. Morgan, You-Sun Kim, and Zheng-gang Liu

IMMUNOGENETICS

- 3285 *Ornithorhynchus anatinus* (Platypus) Links the Evolution of Immunoglobulin Genes in Eutherian Mammals and Nonmammalian Tetrapods
Yaofeng Zhao, Huiting Cui, Camilla M. Whittington, Zhiguo Wei, Xiaofeng Zhang, Ziding Zhang, Li Yu, Liming Ren, Xiaoxiang Hu, Yaping Zhang, Lars Hellman, Katherine Belov, Ning Li, and Lennart Hammarström

HOST DEFENSE

- 3294 Original Antigenic Sin Responses to Influenza Viruses
Jin Hyang Kim, Ioanna Skountzou, Richard Compans, and Joshy Jacob

- 3302 NADPH Oxidase NOX2 Mediates Rapid Cellular Oxidation following ATP Stimulation of Endotoxin-Primed Macrophages
Samantha F. Moore and Amanda B. MacKenzie
- 3309 Neutrophils Sequestered in the Liver Suppress the Proinflammatory Response of Kupffer Cells to Systemic Bacterial Infection
Martin Holub, Chao-Wen Cheng, Stephanie Mott, Philip Wintermeyer, Nico van Rooijen, and Stephen H. Gregory
- 3317 Genetic Control of Severe Egg-Induced Immunopathology and IL-17 Production in Murine Schistosomiasis
Patrick M. Smith, Mara G. Shainheit, Lindsey E. Bazzone, Laura I. Rutitzky, Alexander Poltorak, and Miguel J. Stadecker
- 3324 IL-12p40 and IL-18 Play Pivotal Roles in Orchestrating the Cell-Mediated Immune Response to a Poxvirus Infection
Yang Wang, Geeta Chaudhri, Ronald J. Jackson, and Gunasegaran Karupiah
- 3332 CXCR2-Dependent Mucosal Neutrophil Influx Protects against Colitis-Associated Diarrhea Caused by an Attaching/Effacing Lesion-Forming Bacterial Pathogen
Martina E. Spehlmann, Sara M. Dann, Petr Hruz, Elaine Hanson, Declan F. McCole, and Lars Eckmann
- 3344 Processing and Presentation of Variant Surface Glycoprotein Molecules to T Cells in African Trypanosomiasis
Taylor R. Dagenais, Bailey E. Freeman, Karen P. Demick, Donna M. Paulnock, and John M. Mansfield
- 3356 Sequential, Ordered Acquisition of Antibodies to *Plasmodium falciparum* Erythrocyte Membrane Protein 1 Domains
Gerald K. K. Cham, Louise Turner, John Lusingu, Lasse Vestergaard, Bruno P. Mmbando, Jonathan D. Kurtis, Anja T. R. Jensen, Ali Salanti, Thomas Lavstsen, and Thor G. Theander
- 3364 Memory-Like CD8⁺ T Cells Generated during Homeostatic Proliferation Defer to Antigen-Experienced Memory Cells
Kitty P. Cheung, Edward Yang, and Ananda W. Goldrath
- 3373 Selective Expansion of HIV-1 Envelope Glycoprotein-Specific B Cell Subsets Recognizing Distinct Structural Elements Following Immunization
Pia Dosenovic, Bimal Chakrabarti, Martina Soldemo, Iyadh Douagi, Mattias N. E. Forsell, Yuxing Li, Adhuna Phogat, Staffan Paulie, James Hoxie, Richard T. Wyatt, and Gunilla B. Karlsson Hedestam

INFLAMMATION

- 3383 12/15-Lipoxygenase Counteracts Inflammation and Tissue Damage in Arthritis
Gerhard Krönke, Julia Katzenbeisser, Stefan Uderhardt, Mario M. Zaiss, Carina Scholtzysek, Gernot Schabbauer, Alexander Zarbock, Marije I. Koenders, Roland Axmann, Jochen Zwerina, Hans W. Baenckler, Wim van den Berg, Reinhard E. Voll, Hartmut Kühn, Leo A. B. Joosten, and Georg Schett
- 3390 GM-CSF Regulates Fusion of Mononuclear Osteoclasts into Bone-Resorbing Osteoclasts by Activating the Ras/ERK Pathway
Myeung Su Lee, Hun Soo Kim, Jeong-Tae Yeon, Sik-Won Choi, Churl Hong Chun, Han Bok Kwak, and Jaemin Oh
- 3400 A TLR2 Agonist in German Cockroach Frass Activates MMP-9 Release and Is Protective against Allergic Inflammation in Mice
Kristen Page, John R. Ledford, Ping Zhou, and Marsha Wills-Karp
- 3409 Complement Protease MASP-1 Activates Human Endothelial Cells: PAR4 Activation Is a Link between Complement and Endothelial Function
Márton Megyeri, Veronika Makó, László Beinrohr, Zoltán Doleschall, Zoltán Prohászka, László Cervenak, Péter Závodszy, and Péter Gál

- 3417 IL-10 Is a Negative Regulatory Factor of CAWS-Vasculitis in CBA/J Mice as Assessed by Comparison with Bruton's Tyrosine Kinase-Deficient CBA/N Mice
Noriko N. Miura, Motobiko Komai, Yoshiyuki Adachi, Naoki Osada, Yosuke Kameoka, Kazuo Suzuki, and Naohito Ohno
- 3425 Differential Activation and Regulation of CXCR1 and CXCR2 by CXCL8 Monomer and Dimer
Mohd W. Nasser, Sandeep K. Raghuvanshi, Delores J. Grant, Venkatakrishna R. Jala, Krishna Rajarathnam, and Ricardo M. Richardson
- 3433 Identification of Human Cathepsin G As a Functional Target of Boswellic Acids from the Anti-Inflammatory Remedy Frankincense
Lars Tausch, Arne Henkel, Ulf Siemoneit, Daniel Poeckel, Nicole Kather, Lutz Franke, Bettina Hofmann, Gisbert Schneider, Carlo Angioni, Gerd Geisslinger, Carsten Skarke, Wolfgang Holtmeier, Tobias Beckhaus, Michael Karas, Johann Jauch, and Oliver Werz
- 3443 Impaired Lung Dendritic Cell Migration and T Cell Stimulation Induced by Immunostimulatory Oligonucleotides Contribute to Reduced Allergic Airway Inflammation
Hannelore Constabel, Metodij V. Stankov, Christina Hartwig, Thomas Tschernig, and Georg M. N. Behrens
- 3454 Targeting Gut T Cell Ca^{2+} Release-Activated Ca^{2+} Channels Inhibits T Cell Cytokine Production and T-Box Transcription Factor T-Bet in Inflammatory Bowel Disease
Antonio Di Sabatino, Laura Rovedatti, Rejbinder Kaur, Jonathan P. Spencer, Jon T. Brown, Valerie D. Morisset, Paolo Biancheri, Nicholas A. B. Leakey, Jonathan I. Wilde, Laurie Scott, Gino R. Corazza, Kevin Lee, Neel Sengupta, Charles H. Knowles, Martin J. Gunthorpe, Peter G. McLean, Thomas T. MacDonald, and Laurens Kruidenier
- 3463 Monocyte Chemoattractant Protein-1 (MCP-1), Not MCP-3, Is the Primary Chemokine Required for Monocyte Recruitment in Mouse Peritonitis Induced with Thioglycollate or Zymosan A
Munehisa Takahashi, Carole Galligan, Lino Tessarollo, and Teizo Yoshimura
- 3472 Lymphocytes in the Development of Lung Inflammation: A Role for Regulatory $CD4^{+}$ T Cells in Indirect Pulmonary Lung Injury
Fabienne Venet, Chun-Shiang Chung, Xin Huang, Joanne Lomas-Neira, Yaping Chen, and Alfred Ayala

CLINICAL IMMUNOLOGY

- 3481 Stimulatory and Inhibitory Killer Ig-Like Receptor Molecules Are Expressed and Functional on Lupus T Cells
Dhiman Basu, Ying Liu, Ailing Wu, Sushma Yarlagadda, Gabriela J. Gorelik, Mariana J. Kaplan, Anura Hewagama, Robert C. Hinderer, Faith M. Strickland, and Bruce C. Richardson
- 3488 γ -Aminobutyric Acid Transporter 1 Negatively Regulates T Cell Activation and Survival through Protein Kinase C-Dependent Signaling Pathways
Ying Wang, Qingqiong Luo, Yan Xu, Dechun Feng, Jian Fei, Qi Cheng, and Lingyun Xu
- 3496 Mannose-Binding Lectin (MBL) Substitution: Recovery of Opsonic Function In Vivo Lags behind MBL Serum Levels
Nannette Brouwer, Florine N. J. Frakking, Marianne D. van de Wetering, Michel van Houdt, Margreet Hart, Ilona Kleine Budde, Paul F. W. Strengers, Inga Laursen, Gunnar Houen, Dirk Roos, Jens C. Jensenius, Huib N. Caron, Koert M. Dolman, and Taco W. Kuijpers
- 3505 Genetic Complementation Results in Augmented Autoantibody Responses to Lupus-Associated Antigens
Davis L. Sim, Harini Bagavant, Yogesh M. Scindia, Yan Ge, Felicia Gaskin, Shu Man Fu, and Umesh S. Deshmukh
- 3512 Autoantibodies against Complement C1q Specifically Target C1q Bound on Early Apoptotic Cells
Cornelia Bigler, Monica Schaller, Iryna Perahud, Michael Osthoff, and Marten Trendelenburg

- 3522 HLA-DR Alleles in Amyloid β -Peptide Autoimmunity: A Highly Immunogenic Role for the DRB1*1501 Allele
Victor Zota, Anna Nemirovsky, Rona Baron, Yair Fisher, Dennis J. Selkoe, Daniel M. Altmann, Howard L. Weiner, and Alon Monsonego
- 3531 HLA-DQB1*0602 Determines Disease Susceptibility in a New “Humanized” Multiple Sclerosis Model in HLA-DR15 (DRB1*1501;DQB1*0602) Transgenic Mice
Nathali Kaushansky, Daniel M. Altmann, Stephanie Ascough, Chella S. David, Hans Lassmann, and Avraham Ben-Nun
- 3542 The MHC Haplotype H2b Converts Two Pure Nonlupus Mouse Strains to Producers of Antinuclear Antibodies
Kristian Hannestad and Helge Scott
- 3551 **CORRECTIONS**
- 3552 **AUTHOR INDEX**