



Reporter Cell Lines

The family keeps growing

[Learn more >](#)

InvivoGen



185 (3)

J Immunol 2010; 185:1347-1985; ;
<http://www.jimmunol.org/content/185/3>

This information is current as
of March 22, 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.



1347 IN THIS ISSUE

LETTERS TO THE EDITOR

- 1349 Comment on “Premature Terminal Exhaustion of Friend Virus-Specific Effector CD8⁺ T Cells by Rapid Induction of Multiple Inhibitory Receptors”
Kim J. Hasenkrug and Ulf Dittmer
- 1349 Response to Comment on “Premature Terminal Exhaustion of Friend Virus-Specific Effector CD8⁺ T Cells by Rapid Induction of Multiple Inhibitory Receptors”
Shiki Takamura and Masaaki Miyazawa
- 1350 Comment on “Induction of TGF-β1, Not Regulatory T Cells, Impairs Antiviral Immunity in the Lung following Bone Marrow Transplant”
Heiko Adler
- 1351 Response to Comment on “Induction of TGF-β1, Not Regulatory T Cells, Impairs Antiviral Immunity in the Lung following Bone Marrow Transplant”
Bethany B. Moore
- 1351 Comment on “CCR5 Dictates the Equilibrium of Proinflammatory IL-17⁺ and Regulatory Foxp3⁺ T Cells in Fungal Infections”
Simone A. Joosten and Tom H. M. Ottenhoff
- 1352 Response to Comment on “CCR5 Dictates the Equilibrium of Proinflammatory IL-17⁺ and Regulatory Foxp3⁺ T Cells in Fungal Infections”
Danielle N. Kroetz and George S. Deepe, Jr.

On the cover: CXCL13 blockade scrambles tertiary lymphoid organization in pancreatic islets but does not block B lymphocyte invasion. Immunofluorescent staining showing B220⁺ B cells (pseudocolored pink) and CD3⁺ T cells (pseudocolored blue) of a typical inflamed islet from a 12-wk-old female NOD mouse treated with CXCL13-blocking Ab from age 3 wk. Henry, R. A., and P. L. Kendall. 2010. CXCL13 blockade disrupts B lymphocyte organization in tertiary lymphoid structures without altering B cell receptor bias or preventing diabetes in nonobese diabetic mice. *J. Immunol.* 185: 1460–1465.

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 terms: 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 © 2010 by The American Association of Immunologists, Inc.

PILLARS OF IMMUNOLOGY

- 1353 Cross-Priming: Its Beginnings
Francis R. Carbone and William R. Heath
- 1355 Pillars Article: Minor H Antigens Introduced on H-2 Different Stimulating Cells Cross-React at the Cytotoxic T Cell Level during In Vivo Priming. *J. Immunol.* 1976. 117: 2233–2238
Michael J. Bevan
- 1361 Pillars Article: Cross-Priming for a Secondary Cytotoxic Response to Minor H Antigens with H-2 Congenic Cells Which Do Not Cross-React in the Cytotoxic Assay. *J. Exp. Med.* 1976. 143: 1283–1288
Michael J. Bevan

BRIEF REVIEWS

- 1367 Alternative Adaptive Immunity in Jawless Vertebrates
Brantley R. Herrin and Max D. Cooper

CUTTING EDGE

- 1375 Cutting Edge: CTLA-4–B7 Interaction Suppresses Th17 Cell Differentiation
Haiyan Ying, Lifen Yang, Guilin Qiao, Zhenping Li, Li Zhang, Fei Yin, Dong Xie, and Jian Zhang
- 1379 Cutting Edge: CTNNB1 Is Dispensable for Ig Class Switch Recombination
Li Han, Shahnaz Masani, and Kefei Yu

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

- 1383 Tim-3/Galectin-9 Pathway: Regulation of Th1 Immunity through Promotion of CD11b⁺Ly-6G⁺ Myeloid Cells
Valerie Dardalhon, Ana C. Anderson, Jozsef Karman, Lionel Apetoh, Rucha Chandwaskar, David H. Lee, Melanie Cornejo, Nozomu Nishi, Akira Yamauchi, Francisco J. Quintana, Raymond A. Sobel, Mitsuomi Hirashima, and Vijay K. Kuchroo
- 1393 Implications for Gene Therapy-Limiting Expression of IL-2R γ_c Delineate Differences in Signaling Thresholds Required for Lymphocyte Development and Maintenance
Selinda J. Orr, Stephen Roessler, Laura Quigley, Tim Chan, Jill W. Ford, Geraldine M. O'Connor, and Daniel W. McVicar
- 1404 Peripheral 4-1BB Signaling Negatively Regulates NK Cell Development through IFN- γ
Beom K. Choi, Young H. Kim, Chang H. Kim, Moon S. Kim, Kwang H. Kim, Ho S. Oh, Myoung J. Lee, Don K. Lee, Dass S. Vinay, and Byoung S. Kwon
- 1412 Critical Role for TNF in the Induction of Human Antigen-Specific Regulatory T Cells by Tolerogenic Dendritic Cells
Fleur S. Kleijwegt, Sandra Laban, Gaby Duinkerken, Antoinette M. Joosten, Arnaud Zaldumbide, Tatjana Nikolic, and Bart O. Roep
- 1419 IFN- $\alpha\beta$ and Self-MHC Divert CD8 T Cells into a Distinct Differentiation Pathway Characterized by Rapid Acquisition of Effector Functions
Heather D. Marshall, Amanda L. Prince, Leslie J. Berg, and Raymond M. Welsh
- 1429 Multifront Assault on Antigen Presentation by Japanese Encephalitis Virus Subverts CD8⁺ T Cell Responses
Abi G. Aleyas, Young Woo Han, Junu A. George, Bumseok Kim, Koanhoi Kim, Chong-Kil Lee, and Seong Kug Eo
- 1442 LL-37 Directs Macrophage Differentiation toward Macrophages with a Proinflammatory Signature
Anne M. van der Does, Henry Beekhuizen, Bep Ravensbergen, Tim Vos, Tom H. M. Ottenhoff, Jaap T. van Dissel, Jan W. Drijfhout, Pieter S. Hiemstra, and Peter H. Nibbering
- 1450 Extracellular Matrix of Glioblastoma Inhibits Polarization and Transmigration of T Cells: The Role of Tenascin-C in Immune Suppression
Jyun-Yuan Huang, Yu-Jung Cheng, Yu-Ping Lin, Huan-Ching Lin, Chung-Chen Su, Rudy Juliano, and Bei-Chang Yang

- 1460 CXCL13 Blockade Disrupts B Lymphocyte Organization in Tertiary Lymphoid Structures without Altering B Cell Receptor Bias or Preventing Diabetes in Nonobese Diabetic Mice
Rachel A. Henry and Peggy L. Kendall
- 1466 Four-and-a-Half LIM Domain Protein 2 Is a Novel Regulator of Sphingosine 1-Phosphate Receptor 1 in CCL19-Induced Dendritic Cell Migration
Katharina König, Linda Diehl, Ursula Rommerscheidt-Fuss, Carsten Golletz, Thomas Quast, Philip Kahl, Waldemar Kolanus, Percy Knolle, Reinhard Buettner, and Lukas C. Heukamp
- 1476 IL-12p35 Promotes Antibody-Induced Joint Inflammation by Activating NKT Cells and Suppressing TGF- β
Yuna Park, Hye Sung Kim, Ji Ye Ahn, Daesun Yun, Mi La Cho, Seokmann Hong, Ho Youn Kim, and Doo Hyun Chung
- 1485 Dendritic Cell-Mediated In Vivo Bone Resorption
Radhashree Maitra, Antonia Follenzi, Arash Yaghoobian, Cristina Montagna, Simone Merlin, Elvira S. Cannizzo, John A. Hardin, Neil Cobelli, E. Richard Stanley, and Laura Santambrogio
- 1492 Distal Regions of the Human *IFNG* Locus Direct Cell Type-Specific Expression
Patrick L. Collins, Shaojing Chang, Melodie Henderson, Mohammed Soutto, Georgia M. Davis, Allyson G. McLoed, Michael J. Townsend, Laurie H. Glimcher, Douglas P. Mortlock, and Thomas M. Aune
- 1502 Virulence of *Toxoplasma gondii* Is Associated with Distinct Dendritic Cell Responses and Reduced Numbers of Activated CD8⁺ T Cells
Elia D. Tait, Kimberly A. Jordan, Christopher D. Dupont, Tajie H. Harris, Beth Gregg, Emma H. Wilson, Marion Pepper, Florence Dzierszinski, David S. Roos, and Christopher A. Hunter
- 1513 CD8⁺ T Cell Responses following Replication-Defective Adenovirus Serotype 5 Immunization Are Dependent on CD11c⁺ Dendritic Cells but Show Redundancy in Their Requirement of TLR and Nucleotide-Binding Oligomerization Domain-Like Receptor Signaling
Ross W. B. Lindsay, Patricia A. Darrah, Kylie M. Quinn, Ulrike Wille-Reece, Lisa M. Mattei, Akiko Iwasaki, Sudhir P. Kasturi, Bali Pulendran, Jason G. D. Gall, A. Gregory Spies, and Robert A. Seder
- 1522 The Mannose Receptor Mediates the Uptake of Diverse Native Allergens by Dendritic Cells and Determines Allergen-Induced T Cell Polarization through Modulation of IDO Activity
Pierre-Joseph Royer, Mohamed Emar, Chaoxing Yang, Abeer Al-Ghoul, Paddy Tighe, Nick Jones, Herb F. Sewell, Farouk Shakib, Luisa Martinez-Pomares, and Amir M. Ghaemmaghami
- 1532 Therapeutic Targeting of Syk in Autoimmune Diabetes
Lucrezia Colonna, Geoffrey Catalano, Claude Chew, Vivette D'Agati, James W. Thomas, F. Susan Wong, Jochen Schmitz, Esteban S. Masuda, Boris Reizis, Alexander Tarakhovskiy, and Raphael Clynes
- 1544 Tumor-Activated Monocytes Promote Expansion of IL-17-Producing CD8⁺ T Cells in Hepatocellular Carcinoma Patients
Dong-Ming Kuang, Chen Peng, Qiyi Zhao, Yan Wu, Ling-Yan Zhu, Jianen Wang, Xiao-Yu Yin, Lian Li, and Limin Zheng
- 1550 TLR2 Is One of the Endothelial Receptors for β 2-Glycoprotein I
Jean-Eric Alard, Fanny Gaillard, Capucine Daridon, Yehuda Shoefeld, Christophe Jamin, and Pierre Youinou
- 1558 Abatacept Limits Breach of Self-Tolerance in a Murine Model of Arthritis via Effects on the Generation of T Follicular Helper Cells
Andrew M. Platt, Vivienne B. Gibson, Agapitos Patakas, Robert A. Benson, Steven G. Nadler, James M. Brewer, Iain B. McInnes, and Paul Garside
- 1568 T Cell Activation Leads to Protein Kinase C θ -Dependent Inhibition of TGF- β Signaling
Martin Giroux, Jean-Sébastien Delisle, Alan O'Brien, Marie-Josée Hébert, and Claude Perreault

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 1577 Anti-CD40L Immune Complexes Potently Activate Platelets In Vitro and Cause Thrombosis in FCGR2A Transgenic Mice
Liza Robles-Carrillo, Todd Meyer, Meghan Hatfield, Hina Desai, Mónica Dávila, Florian Langer, Mildred Amaya, Ellen Garber, John L. Francis, Yen-Ming Hsu, and Ali Amirkhosravi
- 1584 Placental Leucine Aminopeptidase Efficiently Generates Mature Antigenic Peptides In Vitro but in Patterns Distinct from Endoplasmic Reticulum Aminopeptidase 1
Dimitra Georgiadou, Arron Hearn, Irini Evnouchidou, Angeliki Chroni, Leondios Leondiadis, Ian A. York, Kenneth L. Rock, and Efstratios Stratikos
- 1593 Soluble and Transmembrane TNF-Like Weak Inducer of Apoptosis Differentially Activate the Classical and Noncanonical NF- κ B Pathway
Claudia Roos, Andreas Wicovsky, Nicole Müller, Steffen Salzmann, Tina Rosenthal, Holger Kalthoff, Anna Trauzold, Axel Seber, Frank Henkler, Christian Kneitz, and Harald Wajant
- 1606 A Novel TNF Receptor-Associated Factor 6 Binding Domain Mediates NF- κ B Signaling by the Common Cytokine Receptor β Subunit
Mark B. Meads, Zhi-Wei Li, and William S. Dalton

IMMUNOGENETICS

- 1616 Genetic Control of IL-1 β Production and Inflammatory Response by the Mouse *Irm1* Locus
Francisca Vorraro, Antonella Galvan, Wafa Hanna Koury Cabrera, Patricia Santos Carneiro, Orlando Garcia Ribeiro, Marcelo De Franco, Nancy Starobinas, José Ricardo Jensen, Michel Seman, Tommaso A. Dragani, and Olga Célia Martinez Ibañez
- 1622 TCR β Allelic Exclusion in Dynamical Models of V(D)J Recombination Based on Allele Independence
Etienne Farcot, Marie Bonnet, Sébastien Jaeger, Salvatore Spicuglia, Bastien Fernandez, and Pierre Ferrier

HOST DEFENSE

- 1633 Herpes Simplex Virus Type 2 Enhances HIV-1 Susceptibility by Affecting Langerhans Cell Function
Marein A. W. P. de Jong, Lot de Witte, Maureen E. Taylor, and Teunis B. H. Geijtenbeek
- 1642 Immunity to Pre-1950 H1N1 Influenza Viruses Confers Cross-Protection against the Pandemic Swine-Origin 2009 A (H1N1) Influenza Virus
Ioanna Skountzou, Dimitrios G. Koutsonanos, Jin Hyang Kim, Ryan Powers, Lakshmi Priyadarshini Satyabhama, Feda Maseoud, William C. Weldon, Maria del Pilar Martin, Robert S. Mittler, Richard Compans, and Joshy Jacob
- 1650 Increased CD4⁺ T Cell Levels during IL-7 Administration of Antiretroviral Therapy-Treated Simian Immunodeficiency Virus-Positive Macaques Are Not Dependent on Strong Proliferative Responses
Amanda Leone, Mukta Rohankhedkar, Afam Okoye, Alfred Legasse, Michael K. Axthelm, Francois Villinger, Michael Piatak, Jr., Jeffrey D. Lifson, Brigitte Assouline, Michel Morre, Louis J. Picker, and Donald L. Sodora
- 1660 Dyslipidemia Induces Opposing Effects on Intrapulmonary and Extrapulmonary Host Defense through Divergent TLR Response Phenotypes
Jennifer H. Madenspacher, David W. Draper, Kathleen A. Smoak, Haitao Li, Gary L. Griffiths, Benjamin T. Suratt, Marsha D. Wilson, Lawrence L. Rudel, and Michael B. Fessler
- 1670 A Genome-Wide Profiling of the Humoral Immune Response to *Chlamydia trachomatis* Infection Reveals Vaccine Candidate Antigens Expressed in Humans
Jie Wang, Yingqian Zhang, Chunxue Lu, Lei Lei, Ping Yu, and Guangming Zhong
- 1681 NLRC5 Limits the Activation of Inflammatory Pathways
Szilvia Benko, Joao G. Magalhaes, Dana J. Philpott, and Stephen E. Girardin
- 1692 Heterogeneity among Viral Antigen-Specific CD4⁺ T Cells and Their De Novo Recruitment during Persistent Polyomavirus Infection
Eugene Lin, Christopher C. Kemball, Annette Hadley, Jarad J. Wilson, Amelia R. Hofstetter, Christopher D. Pack, and Aron E. Lukacher

- 1701 Applying TLR Synergy in Immunotherapy: Implications in Cutaneous Leishmaniasis
Vanitha S. Raman, Ajay Bhatia, Alex Picone, Jacqueline Whittle, Hilton R. Baylor, Joanne O'Donnell, Sowmya Pattabhi, Jeffrey A. Guderian, Raodoh Mohamath, Malcolm S. Duthie, and Steven G. Reed
- 1711 Inflammasome Activation by Adenylate Cyclase Toxin Directs Th17 Responses and Protection against *Bordetella pertussis*
Aisling Dunne, Pádraig J. Ross, Eva Pospisilova, Jiri Masin, Aoife Meaney, Caroline E. Sutton, Yoichiro Iwakura, Jurg Tschopp, Peter Sebo, and Kingston H. G. Mills
- 1720 NF- κ B RelA Subunit Is Crucial for Early IFN- β Expression and Resistance to RNA Virus Replication
Junmei Wang, Suresh H. Basagoudanavar, Xingyu Wang, Emily Hopewell, Randy Albrecht, Adolfo García-Sastre, Siddharth Balachandran, and Amer A. Beg
- 1730 The Role of CD80/CD86 in Generation and Maintenance of Functional Virus-Specific CD8⁺ T Cells in Mice Infected with Lymphocytic Choriomeningitis Virus
Mirjana Grujic, Christina Bartholdy, Melissa Remy, Daniel D. Pinschewer, Jan P. Christensen, and Allan R. Thomsen
- 1744 Antigen-Containing Liposomes Engrafted with Flagellin-Related Peptides Are Effective Vaccines That Can Induce Potent Antitumor Immunity and Immunotherapeutic Effect
Abdus Faham and Joseph G. Altin
- 1755 Secretory-IgA Antibodies Play an Important Role in the Immunity to *Streptococcus pneumoniae*
Yoshiko Fukuyama, Janice D. King, Kosuke Kataoka, Ryoki Kobayashi, Rebekah S. Gilbert, Kazunori Oishi, Susan K. Hollingshead, David E. Briles, and Kohzaro Fujihashi
- 1763 Human Complement Factor H Binds to Outer Membrane Protein Rck of *Salmonella*
Derek K. Ho, Hanna Jarva, and Seppo Meri
- 1770 Partial and Ineffective Activation of V γ 9V δ 2 T Cells by *Mycobacterium tuberculosis*-Infected Dendritic Cells
Serena Meraviglia, Nadia Caccamo, Alfredo Salerno, Guido Sireci, and Francesco Dieli

INFLAMMATION

- 1777 Junctional Adhesion Molecule-C Is a Soluble Mediator of Angiogenesis
Bradley J. Rabquer, Mohammad A. Amin, Nandiitha Teegala, Matthew K. Shaheen, Pei-Suen Tsou, Jeffrey H. Ruth, Charles A. Lesch, Beat A. Imhof, and Alisa E. Koch
- 1786 Acute Hypoxia Induces HIF-Independent Monocyte Adhesion to Endothelial Cells through Increased Intercellular Adhesion Molecule-1 Expression: The Role of Hypoxic Inhibition of Prolyl Hydroxylase Activity for the Induction of NF- κ B
Sandra Winning, Frank Spletstoesser, Joachim Fandrey, and Stilla Frede
- 1794 A Role for Granzyme M in TLR4-Driven Inflammation and Endotoxemia
Desiree A. Anthony, Daniel M. Andrews, Melvyn Chow, Sally V. Watt, Colin House, Shizuo Akira, Phillip I. Bird, Joseph A. Trapani, and Mark J. Smyth
- 1804 T Regulatory Cells Control Antigen-Induced Recruitment of Mast Cell Progenitors to the Lungs of C57BL/6 Mice
Tatiana G. Jones, Fred D. Finkelman, K. Frank Austen, and Michael F. Gurish
- 1812 Role of the CXCR4/CXCL12 Axis in Lymphangioliomyomatosis and Angiomyolipoma
Debbie Clements, Lee J. Markwick, Nidhi Puri, and Simon R. Johnson
- 1822 sRAGE Induces Human Monocyte Survival and Differentiation
Yijie Wang, Hongmei Wang, Melissa G. Piper, Sara McMaken, Xiaokui Mo, Judy Opalek, Ann Marie Schmidt, and Clay B. Marsh
- 1836 Obesity Increases the Production of Proinflammatory Mediators from Adipose Tissue T Cells and Compromises TCR Repertoire Diversity: Implications for Systemic Inflammation and Insulin Resistance
Hyunwon Yang, Yun-Hee Youm, Bolormaa Vandanmagsar, Anthony Ravussin, Jeffrey M. Gimble, Frank Greenaway, Jacqueline M. Stephens, Randall L. Mynatt, and Vishwa Deep Dixit

- 1846 GPR17 Regulates Immune Pulmonary Inflammation Induced by House Dust Mites
Akiko Maekawa, Wei Xing, K. Frank Austen, and Yoshihide Kanaoka
- 1855 Regulation of Th1 and Th17 Cell Differentiation and Amelioration of Experimental Autoimmune Encephalomyelitis by Natural Product Compound Berberine
Xia Qin, Bingshi T. Guo, Bing Wan, Lei Fang, Limin Lu, Lili Wu, Ying Qin Zang, and Jingwu Z. Zhang
- 1864 The Cell-Specific Induction of CXC Chemokine Ligand 9 Mediated by IFN- γ in Microglia of the Central Nervous System Is Determined by the Myeloid Transcription Factor PU.1
Sally L. Ellis, Vanessa Gysbers, Peter M. Manders, Wen Li, Markus J. Hofer, Marcus Müller, and Iain L. Campbell
- 1878 Phosphorylation of Leukocyte PECAM and Its Association with Detergent-Resistant Membranes Regulate Transendothelial Migration
Oliver Florey, Joanne Durgan, and William Muller
- 1887 TNF, but Not IL-6 and IL-17, Is Crucial for the Development of T Cell-Independent Psoriasis-Like Dermatitis in *Il1rn*^{-/-} Mice
Akiko Nakajima, Taizo Matsuki, Mayumi Komine, Akihiko Asahina, Reiko Horai, Susumu Nakae, Harumichi Ishigame, Shigeru Kakuta, Shinobu Saijo, and Yoichiro Iwakura
- 1894 Poly(ADP-Ribose) Polymerase-1 Is a Determining Factor in Crm1-Mediated Nuclear Export and Retention of p65 NF- κ B upon TLR4 Stimulation
Mourad Zerfaoui, Youssef Errami, Amarjit S. Naura, Yasuhiro Suzuki, Hogyoung Kim, Jihang Ju, Tao Liu, Chetan P. Hans, Jong G. Kim, Zakaria Y. Abd Elmageed, Shabriar Koochehpour, Andrew Catling, and A. Hamid Boulares
- 1903 K α DP α , a Tripeptide Derivative of α -Melanocyte-Stimulating Hormone, Suppresses IL-1 β -Mediated Cytokine Expression and Signaling in Human Sebocytes
Arianna Mastrofrancesco, Agatha Kokot, Alex Eberle, Nicholas C. J. Gibbons, Karin U. Schallreuter, Elwira Strozyk, Mauro Picardo, Christos C. Zouboulis, Thomas A. Luger, and Markus Böhm
- 1912 Absence of P-Selectin in Recipients of Allogeneic Bone Marrow Transplantation Ameliorates Experimental Graft-versus-Host Disease
Sydney X. Lu, Amanda M. Holland, Il-Kang Na, Theis H. Terwey, Onder Alpdogan, Jhoanne L. Bautista, Odette M. Smith, David Sub, Christopher King, Adam Kochman, Vanessa M. Hubbard, Uttam K. Rao, Nury Yim, Chen Liu, Alvaro C. Laga, George Murphy, Robert R. Jenq, Johannes L. Zakrzewski, Olaf Penack, Lindsay Dykstra, Kevin Bampoe, Lia Perez, Bruce Furie, Barbara Furie, and Marcel R. M. van den Brink

CLINICAL IMMUNOLOGY

- 1920 Altered Effector CD4⁺ T Cell Function in IL-21R^{-/-} CD4⁺ T Cell-Mediated Graft-Versus-Host Disease
Iekuni Oh, Katsutoshi Ozaki, Akiko Meguro, Keiko Hatanaka, Masanori Kadowaki, Haruko Matsu, Raine Tatara, Kazuya Sato, Yoichiro Iwakura, Susumu Nakae, Katsuko Sudo, Takanori Teshima, Warren J. Leonard, and Kei-ya Ozawa
- 1927 Immune Dysregulation by the Rheumatoid Arthritis Shared Epitope
Denise E. De Almeida, Song Ling, Xiujun Pi, Anne M. Hartmann-Scruggs, Paul Pumpens, and Joseph Holoshitz
- 1935 Antibodies to HLA-E in Nonalloimmunized Males: Pattern of HLA-Ia Reactivity of Anti-HLA-E-Positive Sera
Mepur H. Ravindranath, Hugo Kaneku, Nadim El-Awar, Luis E. Morales-Buenrostro, and Paul I. Terasaki
- 1949 Polymorphic Variants of LIGHT (TNF Superfamily-14) Alter Receptor Avidity and Bioavailability
Timothy C. Cheung, Ken Coppeters, Hideki Sanjo, Lisa M. Osborne, Paula S. Norris, Amy Coddington, Steven W. Granger, Dirk Elewaut, and Carl F. Ware
- 1959 IL-17 Immunity in Human Type 1 Diabetes
Jarno Honkanen, Janne K. Nieminen, Ru Gao, Kristiina Luopajarvi, Harri M. Salo, Jorma Ilonen, Mikael Knip, Timo Otonkoski, and Outi Vaarala
- 1968 Inhibition of Glyceraldehyde-3-Phosphate Dehydrogenase Activity by Antibodies Present in the Cerebrospinal Fluid of Patients with Multiple Sclerosis
Johanna Kölln, Yiping Zhang, Gaby Thai, Michael Demetriou, Neal Hermanowicz, Pierre Duquette, Stanley van den Noort, and Yufen Qin

- 1976 Ischemia Reperfusion Induces IFN Regulatory Factor 4 in Renal Dendritic Cells, which Suppresses Postischemic Inflammation and Prevents Acute Renal Failure
Saraswati Lassen, Maciej Lech, Christoph Römmele, Hans-Willi Mittrüecker, Tak W. Mak, and Hans-Joachim Anders

LETTERS OF RETRACTION

- 1984 Retraction: Activation of Discoidin Domain Receptor 1 Facilitates the Maturation of Human Monocyte-Derived Dendritic Cells Through the TNF Receptor Associated Factor 6/TGF- β -Activated Protein Kinase 1 Binding Protein 1 β /p38 α Mitogen-Activated Protein Kinase Signaling Cascade
Teizo Yoshimura

CORRECTIONS

- 1985 Correction: Lysophosphatidylcholine Increases Neutrophil Bactericidal Activity by Enhancement of Azurophil Granule-Phagosome Fusion via Glycine-GlyR α 2/TRPM2/p38 MAPK Signaling
Chang-Won Hong, Taek-Keun Kim, Hwa-Yong Ham, Ju-Suk Nam, Yong Ho Kim, Haifeng Zheng, Bo Pang, Tae-Kwon Min, Jun-Sub Jung, Si-Nae Lee, Hyun-Jeong Cho, Ee-Jin Kim, In-Hwan Hong, Tae-Cheon Kang, Jongho Lee, Seog Bae Oh, Sung Jun Jung, Sung Joon Kim, and Dong-Keun Song

- 1986 AUTHOR INDEX