This information is current as of August 31, 2017.

<table>
<thead>
<tr>
<th>Subscription</th>
<th>Information about subscribing to <em>The Journal of Immunology</em> is online at: <a href="http://jimmunol.org/subscription">http://jimmunol.org/subscription</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissions</td>
<td>Submit copyright permission requests at: <a href="http://www.aai.org/About/Publications/JI/copyright.html">http://www.aai.org/About/Publications/JI/copyright.html</a></td>
</tr>
<tr>
<td>Email Alerts</td>
<td>Receive free email-alerts when new articles cite this article. Sign up at: <a href="http://jimmunol.org/alerts">http://jimmunol.org/alerts</a></td>
</tr>
</tbody>
</table>
IN MEMORIAM

5465 A Remembrance of Baruj Benacerraf (AAI '57) 1920–2011
Ronald N. Germain and Steven J. Burakoff

IN THIS ISSUE

LETTERS TO THE EDITOR

5473 Comment on “The Inhibiting Fc Receptor for IgG, FcγRIIB, Is a Modifier of Autoimmune Susceptibility”
Kenneth G. C. Smith, Lisa C. Willcocks, and Paul A. Lyons

5473 Response to Comment on “The Inhibiting Fc Receptor for IgG, FcγRIIB, Is a Modifier of Autoimmune Susceptibility”
Sjef Verbeek, Peter Boross, and Shozo Izui

PILLARS OF IMMUNOLOGY

5475 Cytokine Signaling: Birth of a Pathway
John J. O’Shea, Massimo Gadina, and Yuka Kanno

Laura Velazquez, Marc Fellous, George R. Stark, and Sandra Pellegrini

Chris Schindler, Ke Shuai, Vincent R. Prezioso, and James E. Darnell, Jr.

CUTTING EDGE

5495 Cutting Edge: Nicastrin and Related Components of γ-Secretase Generate a Peptide Epitope Facilitating Immune Recognition of Intracellular Mycobacteria, through MHC Class II-Dependent Priming of T Cells
Christopher R. Singh, Pearl Babhru, Arshad Khan, Qing Bo Li, and Chinnaswamy Jagannath

On the cover: A CTL clone (center) is surrounded by three different target cells and beads coated with anti-LFA-1. Experiments using beads coated with anti-LFA or anti-TCR or both revealed that both TCR and LFA-1 ligation are required for the recruitment of the cytoskeletal adaptor protein paxillin to the contact site. Robertson, L. K. and H. L. Ostergaard. 2011. Paxillin associates with the microtubule cytoskeleton and the immunological synapse of CTL through its leucine-aspartic acid domains and contributes to microtubule organizing center reorientation. J. Immunol. 187: 5824–5833.
5627 IL-1β and TGF-β Act Antagonistically in Induction and Differentially in Propagation of Human Proliferative Precursor CD4+ T Cells
Katrin Hebel, Marion Rudolph, Bernhard Kosak, Hyun-Dong Chang, Jana Butzmann, and Monika C. Brunner-Weinzierl

5636 Regulation of IFN-α1 Promoter Activity (IFN-α1/IL-29) in Human Airway Epithelial Cells
Rachael Siegel, Joyce Eskdale, and Grant Gallagher

5645 Cross-Talk Between TCR and CCR7 Signaling Sets a Temporal Threshold for Enhanced T Lymphocyte Migration
Karin Schaebule, Mark A. Hauser, Eva Singer, Marcus Groettrup, and Daniel F. Legler

5653 Antimicrobial Peptides Inhibit Polynosinic-Polycytidylic Acid-Induced Immune Responses
Maroof Hasan, Catarina Ruksznis, Yan Wang, and Cynthia Anne Leifer

5660 Pathogenic and Protective Functions of TNF in Neuroinflammation Are Defined by Its Expression in T Lymphocytes and Myeloid Cells
Andrey A. Kruglov, Vicky Lampopoulos, Simon Fillatreau, and Sergei A. Nedospasov

5671 Osteopontin Modulates the Generation of Memory CD8+ T Cells during Influenza Virus Infection
Junko Morimoto, Kayoko Sato, Yusuke Nakayama, Chiemi Kimura, Kiichi Kajino, Yutaka Matsui, Tadaaki Miyazaki, and Toshimitsu Uede

5684 Immune Regulation through Mitochondrion-Dependent Dendritic Cell Death Induced by T Regulatory Cells
Min Chen, Kumar Felix, and Jin Wang

5693 Proliferating Cell Nuclear Antigen Is a Novel Inhibitory Ligand for the Natural Cytotoxicity Receptor Nkp44
Benjamin Rosental, Michael Brusilovsky, Uzi Hadad, Dafna Oz, Michael Y. Appel, Fabian Afergan, Rami Yosef, Lior Ann Rosenberg, Amir Aharoni, Adelheid Cerwenka, Kerry S. Campbell, Alex Braiman, and Angel Porgador

5703 A Critical Role for Macrophages in Promotion of Urethane-Induced Lung Carcinogenesis
Rinat Zaynagdzisdinov, Taylor P. Sherrill, Vasily V. Polosukhin, Wei Han, Jamie A. Auchorn, Allyson G. McLoed, Frank B. McMahon, Linda A. Gleaves, Amber L. Degryse, Georgios T. Stathopoulos, Fiona E. Yull, and Timothy S. Blackwell

5712 Formation of B-1 B Cells from Neonatal B-1 Transitional Cells Exhibits NF-κB Redundancy
Encarnacion Montecino-Rodriguez and Kenneth Dorshkind

5720 Cannabinoid Receptor 2 Is Critical for the Homing and Retention of Marginal Zone B Lineage Cells and for Efficient T-Independent Immune Responses
Sreemanti Basu, Avijit Ray, and Bonnie N. Dittel

5733 Affinity Thresholds for Naive CD8+ CTL Activation by Peptides and Engineered Influenza A Viruses

5745 Influence of Galectin-9/Tim-3 Interaction on Herpes Simplex Virus-1 Latency
Pradeep B. J. Reddy, Sharvan Sehrawat, Amol Suryawanshi, Naveen K. Rajasagi, Sachin Mulik, Mitsuomi Hirahama, and Barry T. Rouse

5756 Rapamycin Attenuates Airway Hyperreactivity, Goblet Cells, and IgE in Experimental Allergic Asthma
Elizabeth M. Mushaben, Elizabeth L. Kramer, Eric B. Brandt, Gurjit K. Khurana Hershey, and Timothy D. LeCras

5764 IL-6 Promotes Cardiac Graft Rejection Mediated by CD4+ Cells
Adam Jared Booth, Svetlana Grabauksiene, Sherri Chan Wood, Guanyi Lu, Bryna E. Burrell, and D. Keith Bishop

5772 A p53 Defect Sensitizes Various Stages of B Cell Development to Lymphomagenesis in Mice Carrying an IgH 3′ Regulatory Region-Driven c-myc Transgene
Remi Fiancette, Pauline Rouaud, Christelle Vincent-Fabert, Brice Laffleur, Virginie Magnone, Michel Cogné, and Yves Denizot
PTEN Negatively Regulates Engulfment of Apoptotic Cells by Modulating Activation of Rac GTPase
Subhajnan Mondal, Saurabh Ghosh-Roy, Fabien Loison, Yiang Li, Yonghui Jia, Chad Harris, David A. Williams, and Hongbo R. Luo

Lineage−Sca1−c-Kit−CD25+ Cells Are IL-33–Responsive Type 2 Innate Cells in the Mouse Bone Marrow
Adipose Brickshawana, Virginia Smith Shapiro, Hirohito Kita, and Larry R. Pease

C5a Regulates NKT and NK Cell Functions in Sepsis
Michael E. Fusakio, Javid P. Mohammed, Yves Laumonnier, Kasper Hoebe, Jörg Köhl, and Jochen Mattner

Peptidoglycan Recognition Protein Pglyrp2 Protects Mice from Psoriasis-like Skin Inflammation by Promoting Regulatory T Cells and Limiting Th17 Responses
Shin Yong Park, Dipika Gupta, Risa Hurwich, Chang H. Kim, and Roman Dziarski

Paxillin Associates with the Microtubule Cytoskeleton and the Immunological Synapse of CTL through Its Leucine-Aspartic Acid Domains and Contributes to Microtubule Organizing Center Reorientation
Leslie K. Robertson and Hanne L. Ostergaard

Selective Upregulation of microRNA Expression in Peripheral Blood Leukocytes in IL-10−/− Mice Precedes Expression in the Colon
Jeremy S. Schaefer, Dina Montufar-Solis, Nadarajah Vigneswaran, and John R. Klein

Uric Acid-Driven Th17 Differentiation Requires Inflammasome-Derived IL-1 and IL-18
Cristina Conforti-Andreoni, Roberto Spreafico, Hong Liang Qian, Nicolas Riese, Bernhard Ryffel, Paola Ricciardi-Castagnoli, and Alessandra Mortellaro

αβ1 Integrin-Mediated Signaling Serves as an Intrinsic Regulator of Pathogenic Th17 Cell Generation
Masashi Kanayama, Junko Morimoto, Yutaka Matsui, Masahiro Ikesue, Keiko Danzaki, Daisuke Kurotaki, Kyou Ito, Toshimichi Yoshida, and Toshimitsu Uede

CpG Protects Human Monocytic Cells against HIV-Vpr–Induced Apoptosis by Cellular Inhibitor of Apoptosis-2 through the Calcium-Activated JNK Pathway in a TLR9-Independent Manner
Mansi Saxena, Aurelia Busca, Sunita Pandey, Marko Kryworuchko, and Ashok Kumar

Microbiota Downregulates Dendritic Cell Expression of miR-10a, Which Targets IL-12/IL-23p40
Xiaochang Xue, Ting Feng, Suxia Yao, Kyle J. Wolf, Chang-Gong Liu, Xiuping Liu, Charles O. Elson, and Yingzi Cong

Cofilin-Mediated F-Actin Severing Is Regulated by the Rap GTPase and Controls the Cytoskeletal Dynamics That Drive Lymphocyte Spreading and BCR Microcluster Formation
Spencer A. Freeman, Victor Lei, May Dang-Lawson, Kenzaku Mizuno, Calvin D. Roskelley, and Michael R. Gold

Pancreatic Islets Engineered with SA-FasL Protein Establish Robust Localized Tolerance by Inducing Regulatory T Cells in Mice
Emra S. Yelcu, Hong Zhao, Laura Bandura-Morgan, Chantale Lacelle, Kyle B. Woodward, Nadir Askenasy, and Haval Shirwan

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Escape from CD8+ T Cell Response by Natural Variants of an Immunodominant Epitope from Theileria parva Is Predominantly Due to Loss of TCR Recognition
Timothy K. Connelley, Niall D. MacHugh, Roger Pelle, William Weir, and W. Ivan Morrison

Structure-Based Selection of Small Molecules To Alter Allele-Specific MHC Class II Antigen Presentation
Aaron W. Michels, David A. Ostrov, Li Zhang, Maki Nakayama, Masanori Fuse, Kristen McDaniel, Bart O. Roep, Peter A. Gottlieb, Mark A. Atkinson, and George S. Eisenbarth

TOX Is Required for Development of the CD4 T Cell Lineage Gene Program
Parinaz Aliahmad, Asha Kadavalle, Brian de la Torre, Dietmar Kappes, and Jonathan Kaye
SAP-Mediated Inhibition of Diacylglycerol Kinase α Regulates TCR-Induced Diacylglycerol Signaling
Gianluca Baldanzi, Andrea Piglioni, Valentina Bettio, Elena Rainero, Sara Traini, Federica Chianale, Paolo E. Porporato, Nicoletta Filigheddu, Riccardo Mesturini, Shaping Song, Tamas Schweighoffer, Laura Patrussi, Cosima T. Baldari, Xiao-Ping Zhang, Wim J. van Blitterswijk, Fabiola Sinigaglia, Kim E. Nichols, Ignacio Rubio, Ornella Parolini, and Andrea Graziani

The Actin Regulatory Protein HS1 Is Required for Antigen Uptake and Presentation by Dendritic Cells
Yanping Huang, Chhanda Biswas, Deborah A. Klos Dehring, Uma Sriram, Edward K. Williamson, Shuixing Li, Fiona Clarke, Stefania Gallucci, Yair Argon, and Janis K. Burkhardt

T Cell Factor 1 Regulates Thymocyte Survival via a RORγt-Dependent Pathway
Ruiqing Wang, Huimin Xie, Zhaoqin Huang, Jian Mu, Xianfeng Fang, Yan Ding, and Zuoming Sun

c-Myb and GATA-3 Cooperatively Regulate IL-13 Expression via Conserved GATA-3 Response Element and Recruit Mixed Lineage Leukemia (MLL) for Histone Modification of the IL-13 Locus
Teruhiko Kozuka, Mayumi Sugita, Susan Shetzline, Alan M. Gewirtz, and Yuji Nakata

EphB Receptors Trigger Akt Activation and Suppress Fas Receptor-Induced Apoptosis in Malignant T Lymphocytes
Alison Maddigan, Luke Truitt, Ryan Arsenault, Tanya Freywald, Odette Allonby, Jonathan Dean, Aru Narendran, Jim Xiang, Andrew Weng, Scott Napper, and Andrew Freywald

A Comparative Analysis of Viral Peptides Presented by Contemporary Human and Chimpanzee MHC Class I Molecules
Hanneke W. M. van Deutekom, Ilka Hoof, Ronald E. Bonstrop, and Can Keşmir

Phagosomal Degradation Increases TLR Access to Bacterial Ligands and Enhances Macrophage Sensitivity to Bacteria
Andrea J. Wolf, Andrea Arruda, Christopher N. Reyes, Amber T. Kaplan, Takahiro Shimada, Kenichi Shimada, Moshe Arditi, George Liu, and David M. Underhill

Lung CD103+ Dendritic Cells Efficiently Transport Influenza Virus to the Lymph Node and Load Viral Antigen onto MHC Class I for Presentation to CD8 T Cells
Adrian W. S. Ho, Nayaran Prabhu, Richard John Betts, Moyar Qing Ge, Xilei Dai, Paul Edward Hutchinson, Fei Chuan Lew, Kok Loon Wong, Brendon John Hanson, Paul A. Macary, and David Michael Kemeny

Recruited Macrophages Control Dissemination of Group A Streptococcus from Infected Soft Tissues
Inbal Mishalian, Merav Ordan, Amon Peled, Alexander Maly, Miriam B. Eichenbaum, Miriam Ravnin, Tegest Aychek, Steffen Jung, and Emanuel Hanski

Characterization of a Human Cervical CD4+ T Cell Subset Coexpressing Multiple Markers of HIV Susceptibility
Lyle R. McKinnon, Billy Nyanga, Duncan Chege, Preston Izuzula, Makoubu Kimani, Sanja Huibner, Lawrence Gelmon, Katherine E. Block, Claudia Cicala, A. Omu Anzala, James Arthos, Joshua Kimani, and Rupert Kaul

Hck Tyrosine Kinase Regulates TLR4-Induced TNF and IL-6 Production via AP-1
Maria J. Smolinska, Theresa H. Page, Ania M. Urbaniak, Brenda E. Mutch, and Nicole J. Horwood

Mammalian Target of Rapamycin Inhibition in Macrophages of Asymptomatic HIV+ Persons Reverses the Decrease in TLR-α–Mediated TNF-α Release through Prolongation of MAPK Pathway Activation
Xin Li, Xinhua Han, Juliana Llano, Medhavi Bole, Xiuqin Zhou, Katharine Swan, Asha Anandaiah, Benjamin Nelson, Naimish R. Patel, Peter S. Reinach, Henry Koziel, and Souvenir D. Tachado

Eosinophils Regulate Dendritic Cells and Th2 Pulmonary Immune Responses following Allergen Provocation
Elizabeth A. Jacobsen, Katie R. Zellner, Dana Colbert, Nancy A. Lee, and James J. Lee
Mapping the Transcriptional Machinery of the IL-8 Gene in Human Bronchial Epithelial Cells
Valentino Bezzerri, Monica Borgatti, Alesia Finotti, Anna Tamanini, Roberto Gambari, and Giulio Cabrini

Attenuated Atherosclerotic Lesions in apoE-Fcγ-Chain-Deficient Hyperlipidemic Mouse Model Is Associated with Inhibition of Th17 Cells and Promotion of Regulatory T Cells
Hang Pong Ng, Ramona L. Burris, and Shanmugam Nagarajan

Integrin αvβ5-Mediated TGF-β Activation by Airway Smooth Muscle Cells in Asthma
Amanda L. Tatler, Alison E. John, Lia Jolly, Anthony Halgood, Jo Porte, Chris Brightling, Alan J. Knox, Linhua Pang, Dean Sheppard, Xiaohui Huang, and Gisli Jenkins

The Role for Decorin in Delayed-Type Hypersensitivity
Daniela G. Seidler, Negia A. Mohamed, Carla Bocian, Anika Stadtmann, Sven Hermann, Klaus Schäfers, Michael Schäfers, Renato V. Iozzo, Alexander Zabrock, and Martin Götte

Adenosinergic Regulation of the Expansion and Immunosuppressive Activity of CD11b+Gr1+ Cells
Sergey Ryzhov, Sergey V. Novitskiy, Anna E. Goldstein, Asel Biktasova, Michael Blackburn, Italo Biaggioni, Mikhail M. Dikov, and Igor Feoktistov

CLINICAL IMMUNOLOGY

Pilot Clinical Trial of Type 1 Dendritic Cells Loaded with Autologous Tumor Lysates Combined with GM-CSF, Pegylated IFN, and Cyclophosphamide for Metastatic Cancer Patients

Inflammasome Activation of IL-18 Results in Endothelial Progenitor Cell Dysfunction in Systemic Lupus Erythematosus
J. Michelle Kahlenberg, Seth G. Thacker, Celine C. Berthier, Clemens D. Cohen, Matthias Kretzler, and Mariana J. Kaplan

CORRECTIONS

Correction: Distinct Roles of IL-23 and IL-17 in the Development of Psoriasis-Like Lesions in a Mouse Model
Kimiko Nakajima, Takashi Kanda, Mikiro Takashii, Takeo Shiga, Ken Miyoshi, Hideki Nakajima, Reiko Kamijima, Masahito Tarutani, Jacqueline M. Benson, M. Merle Elloso, Lester L. Gutshall, Michael F. Naso, Yoichiro Isoakura, John DiGiovanni, and Shigetoshi Sano

Correction: Basophils Amplify Type 2 Immune Responses, but Do Not Serve a Protective Role, during Chronic Infection of Mice with the Filarial Nematode Litomosoides sigmodontis
Marina N. Torrero, Marc P. Hübner, David Larson, Hajime Karasuyama, and Edward Mitre

Correction: TNF Mediates the Sustained Activation of Nrf2 in Human Monocytes
Stuart A. Rushworth, Subbarh Shah, and David J. MacEwan

AUTHOR INDEX