

This information is current as
of April 23, 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>

VOL. 202 | NO. 7 | April 1, 2019 | Pages 1909–2174

IN THIS ISSUE

- 1909 **Factoring for Complement Control** *See article p. 2082*
Macaque MAITs *See article p. 2105*
Incompatibility Issues for NK Cells *See article p. 2141*
Increasing Yield and Function of Tissue-Resident Lymphocytes *See article p. 2153*

PILLARS OF IMMUNOLOGY

- 1911 On the Road to Discovering the Elusive Executioner of Pyroptosis
David E. Place and Thirumala-Devi Kanneganti
- 1913 Pillars Article: Caspase-1-Dependent Pore Formation during Pyroptosis Leads to Osmotic Lysis of Infected Host Macrophages. *Cell Microbiol.* 2006. 8: 1812–1825
Susan L. Fink and Brad T. Cookson

BRIEF REVIEWS

- 1927 An Inconvenient Variable: Sex Hormones and Their Impact on T Cell Responses
Melissa A. Brown and Maureen A. Su

CUTTING EDGE

- 1935 Cutting Edge: IL-17B Uses IL-17RA and IL-17RB to Induce Type 2 Inflammation from Human Lymphocytes
Vladimir Ramirez-Carrozzi, Naruhisa Ota, Arivazhagan Sambandam, Kit Wong, Jason Hackney, Nadia Martinez-Martin, Wenjun Ouyang, and Rajita Pappu
- 1942 Cutting Edge: G Protein Subunit β 1 Negatively Regulates NLRP3 Inflammasome Activation
Tomohiko Murakami, Lerdluck Ruengsinpinya, Eriko Nakamura, Yoshifumi Takahata, Kenji Hata, Hiroaki Okae, Shun'ichiro Taniguchi, Masafumi Takahashi, and Riko Nishimura

On the cover: Micro-computed tomography image of tibia from a mouse given a subtherapeutic dose of anti-TNF Ab to treat collagen-induced arthritis (model of human rheumatoid arthritis), showing only partial alleviation of bone surface roughness. Shen, F., A. H. Verma, A. Volk, B. Jones, B. M. Coleman, M. J. Loza, R. Malaviya, B. Moore, D. Weinstock, M. M. Elloso, S. L. Gaffen, and T. Ort. 2019. Combined blockade of TNF- α and IL-17A alleviates progression of collagen-induced arthritis without causing serious infections in mice. *J. Immunol.* 202: 2017–2026.

The Journal of Immunology (ISSN 0022-1767) is published twice each month by The American Association of Immunologists, Inc., 1451 Rockville Pike, Suite 650, Rockville, MD 20852, 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/subscription> 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/Subscription/Claims>). Reprints of individual articles are available only from authors. Periodicals postage paid at Rockville, MD 20852, 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, 1451 Rockville Pike, Suite 650, Rockville, MD 20852. Copyright © 2019 by The American Association of Immunologists, Inc.

CLINICAL AND HUMAN IMMUNOLOGY

- 1949 Differential Influence of IL-9 and IL-17 on Actin Cytoskeleton Regulates the Migration Potential of Human Keratinocytes
Sreya Das, Srisathya Srinivasan, Ankita Srivastava, Sushant Kumar, Gargi Das, Suman Das, Alka Dwivedi, Atharva Karulkar, Khushi Makkad, Richa Bilala, Ankit Gupta, Abhijeet Sawant, Chitra Nayak, Prakriti Tayalia, and Rahul Purwar
- 1962 New Insights into Lymphocyte Differentiation and Aging from Telomere Length and Telomerase Activity Measurements
Tinbinane Fali, Laura Papagno, Charles Bayard, Yanis Mouloud, Jacques Boddaert, Delphine Sauce, and Victor Appay

IMMUNE REGULATION

- 1970 Glatiramer Acetate Stimulates Regulatory B Cell Functions
Kabina Anrouche, Jacques-Olivier Pers, and Christophe Jamin

IMMUNOGENETICS

- 1981 Next Generation Sequencing of the Pig $\alpha\beta$ TCR Repertoire Identifies the Porcine Invariant NKT Cell Receptor
Guan Yang, Bianca L. Artiaga, Carrie L. Lomelino, Anitha D. Jayaprakash, Ravi Sachidanandam, Robert Mckenna, and John P. Driver
- 1992 Identification of Two Nonrearranging IgSF Genes in Chicken Reveals a Novel Family of Putative Remnants of an Antigen Receptor Precursor
Yanbin Fu, Zhi Yang, Jinwei Huang, Xueqian Cheng, Xifeng Wang, Shiping Yang, Liming Ren, Zhengxing Lian, Haitang Han, and Yaofeng Zhao

IMMUNOTHERAPY AND VACCINES

- 2005 A Combined YopB and LcrV Subunit Vaccine Elicits Protective Immunity against *Yersinia* Infection in Adult and Infant Mice
Shannon J. Heine, Olga L. Franco-Mahecha, Khandra T. Sears, Cinthia B. Drachenberg, Maarten L. van Roosmalen, Kees Leenhouts, Wendy L. Picking, and Marcela F. Pasetti

INFECTIOUS DISEASE AND HOST RESPONSE

- 2017 Combined Blockade of TNF- α and IL-17A Alleviates Progression of Collagen-Induced Arthritis without Causing Serious Infections in Mice
Fang Shen, Akash H. Verma, Amy Volk, Brian Jones, Bianca M. Coleman, Matthew J. Loza, Ravi Malaviya, Beverley Moore, Daniel Weinstock, M. Merle Elloso, Sarah L. Gaffen, and Tatiana Ort
- 2027 Monocytes Represent One Source of Bacterial Shielding from Antibiotics following Influenza Virus Infection
Karl J. Fischer, Vijaya Kumar Yajjala, Shruti Bansal, Christopher Bauer, Ruiling Chen, and Keer Sun

INNATE IMMUNITY AND INFLAMMATION

- 2035 Elevated Expression of Macrophage Migration Inhibitory Factor Promotes Inflammatory Bone Resorption Induced in a Mouse Model of Periradicular Periodontitis
Mohammed Howait, Abdullah Albassam, Chiaki Yamada, Hajime Sasaki, Laila Bahammam, Mariane Maffei Azuma, Luciano Tavares Angelo Cintra, Abhay R. Satoskar, Satoru Yamada, Robert White, Toshihisa Kawai, and Alexandru Movila
- 2044 A20 Orchestrates Inflammatory Response in the Oral Mucosa through Restraining NF- κ B Activity
Yajie Li, Erin C. Mooney, Sara E. Holden, Xia-Juan Xia, David J. Cohen, Scott W. Walsh, Averil Ma, and Sinem E. Sahingur
- 2057 Soluble Fc-Disabled Herpes Virus Entry Mediator Augments Activation and Cytotoxicity of NK Cells by Promoting Cross-Talk between NK Cells and Monocytes
Qinglai Meng, Asifa K. Zaidi, John Sedy, Armand Bensussan, and Daniel L. Popkin
- 2069 Human Blood and Tonsil Plasmacytoid Dendritic Cells Display Similar Gene Expression Profiles but Exhibit Differential Type I IFN Responses to Influenza A Virus Infection
Sindhu Vangeti, Jens Gertow, Meng Yu, Sang Liu, Faezzah Baharom, Saskia Scholz, Danielle Friberg, Magnus Starkhammar, Alexander Ahlberg, and Anna Smed-Sörensen

MOLECULAR AND STRUCTURAL IMMUNOLOGY

- 2082 Self versus Nonself Discrimination by the Soluble Complement Regulators Factor H and FHL-1
Arthur Dopler, Leonie Guntau, Markus J. Harder, Annette Palmer, Britta Höchsmann, Hubert Schrezenmeier, Thomas Simmet, Markus Huber-Lang, and Christoph Q. Schmidt

MUCOSAL IMMUNOLOGY

- 2095 Oral Treatment with BT-11 Ameliorates Inflammatory Bowel Disease by Enhancing Regulatory T Cell Responses in the Gut
Andrew Leber, Raquel Hontecillas, Victoria Zoccoli-Rodriguez, Jyoti Chauhan, and Josep Bassaganya-Riera
- 2105 MAIT Cells Upregulate $\alpha 4\beta 7$ in Response to Acute Simian Immunodeficiency Virus/Simian HIV Infection but Are Resistant to Peripheral Depletion in Pigtail Macaques
Jennifer A. Juno, Kathleen M. Wragg, Thakshila Amarasena, Bronwyn S. Meehan, Jeffrey Y. W. Mak, Ligong Liu, David P. Fairlie, James McCluskey, Sidonia B. G. Eckle, and Stephen J. Kent

SYSTEMS IMMUNOLOGY

- 2121 Hypersensitive IFN Responses in Lupus Keratinocytes Reveal Key Mechanistic Determinants in Cutaneous Lupus
Lam C. Tsoi, Grace A. Hile, Celine C. Berthier, Mrinal K. Sarkar, Tamra J. Reed, Jianhua Liu, Ranjitha Uppala, Matthew Patrick, Kalpana Raja, Xianying Xing, Enze Xing, Kevin He, Johann E. Gudjonsson, and J. Michelle Kahlenberg
- 2131 Programming Effects of Pubertal Lipopolysaccharide Treatment in Male and Female CD-1 Mice
Rupali Sharma, Spencer van Mil, Brett Melanson, Bronwen J. Thomas, Jasmine Rooke, Jean-François Mallet, Chantal Matar, Jaclyn M. Schwarz, and Nafissa Ismail

TRANSPLANTATION

- 2141 Impact of KIR/HLA Incompatibilities on NK Cell Reconstitution and Clinical Outcome after T Cell-Replete Haploidentical Hematopoietic Stem Cell Transplantation with Posttransplant Cyclophosphamide
Catherine Willem, Dhon Roméo Makanga, Thierry Guillaume, Bercelin Maniangou, Nolwenn Legrand, Katia Gagne, Pierre Peterlin, Alice Garnier, Marie C. Béné, Anne Cesbron, Amandine Le Bourgeois, Patrice Chevallier, and Christelle Retière

NOVEL IMMUNOLOGICAL METHODS

- 2153 ARTC2.2/P2RX7 Signaling during Cell Isolation Distorts Function and Quantification of Tissue-Resident CD8⁺ T Cell and Invariant NKT Subsets
Henrique Borges da Silva, Haiguang Wang, Lily J. Qian, Kristin A. Hogquist, and Stephen C. Jameson
- 2164 FLEXamers: A Double Tag for Universal Generation of Versatile Peptide-MHC Multimers
Manuel Effenberger, Andreas Stengl, Kilian Schober, Maria Gerget, Maximilian Kampick, Thomas R. Müller, Dominik Schumacher, Jonas Helma, Heinrich Leonhardt, and Dirk H. Busch

CORRECTIONS

- 2172 Correction: Dimethyl Fumarate Treatment Mediates an Anti-Inflammatory Shift in B Cell Subsets of Patients with Multiple Sclerosis
Rui Li, Ayman Rezk, Mahtab Ghadiri, Felix Luessi, Frauke Zipp, Hulun Li, Paul S. Giacomini, Jack Antel, and Amit Bar-Or

- 2173 AUTHOR INDEX