

ON THE COVER

Hara-Chikuma et al. demonstrate that the water/glycerol channel aquaporin-3 (AQP3) regulates chemokine-dependent trafficking of T cells to inflamed skin via uptake of hydrogen peroxide (H₂O₂). Image shows an abstraction of T cells (green) expressing AQP3 receptors (blue) with H₂O₂ uptake (yellow) migrating to the skin (red). Artwork by Rachel Urkowitz (rachelurk@earthlink.net).

See page 1743

Brief Definitive Reports

- 1703 TRAF-interacting protein (TRIP) negatively regulates IFN- β production and antiviral response by promoting proteasomal degradation of TANK-binding kinase 1

Meng Zhang, Lijuan Wang, Xueying Zhao, Kai Zhao, Hong Meng, Wei Zhao, and Chengjiang Gao

- 1713 Neuropilin-1 distinguishes natural and inducible regulatory T cells among regulatory T cell subsets *in vivo*

Mahesh Yadav, Cedric Louvet, Dan Davini, James M. Gardner, Marc Martinez-Llordella, Samantha Bailey-Bucktrout, Bryan A. Anthony, Francis M. Sverdrup, Richard Head, Daniel J. Kuster, Peter Ruminski, David Weiss, David Von Schack, and Jeffrey A. Bluestone

Articles

- 1723 Neuropilin 1 is expressed on thymus-derived natural regulatory T cells, but not mucosa-generated induced Foxp3⁺ T reg cells

Jonathan M. Weiss, Angelina M. Bilate, Michael Gobert, Yi Ding, Maria A. Curotto de Lafaille, Christopher N. Parkhurst, Huizhong Xiong, Jayashree Dolpady, Alan B. Frey, Maria Grazia Ruocco, Yi Yang, Stefan Floess, Jochen Huehn, Soyoung Oh, Ming O. Li, Rachel E. Nicl, Alexander Y. Rudensky, Michael L. Dustin, Dan R. Littman, and Juan J. Lafaille

- 1743 Chemokine-dependent T cell migration requires aquaporin-3-mediated hydrogen peroxide uptake

Mariko Hara-Chikuma, Shunsuke Chikuma, Yoshinori Sugiyama, Kenji Kabashima, Alan S. Verkman, Shintaro Inoue, and Yoshiki Miyachi

- 1753 Schistosome-derived omega-1 drives Th2 polarization by suppressing protein synthesis following internalization by the mannose receptor

Bart Everts, Leonie Hussaarts, Nicole N. Driessen, Moniek H.J. Meevissen, Gabriele Schramm, Alwin J. van der Ham, Barbara van der Hoeven, Thomas Scholzen, Sven Burgdorf, Markus Mohrs, Edward J. Pearce, Cornelis H. Hokke, Helmut Haas, Hermelijn H. Smits, and Maria Yazdanbakhsh

- 1769 Autoreactive T cells bypass negative selection and respond to self-antigen stimulation during infection

Sarah Enouz, Lucie Carrié, Doron Merkler, Michael J. Bevan, and Dietmar Zehn

- 1781 Reduced TCR signaling potential impairs negative selection but does not result in autoimmune disease

SuJin Hwang, Ki-Duk Song, Renaud Lesourne, Jan Lee, Julia Pinkhasov, LiQi Li, Dalal El-Khoury, and Paul E. Love

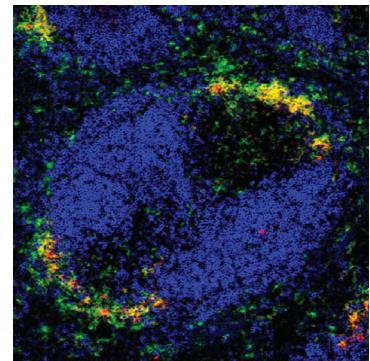
- 1797 Dual-reactive B cells are autoreactive and highly enriched in the plasmablast and memory B cell subsets of autoimmune mice

Emilie M. Fournier, Maria-Gabriela Velez, Katelyn Leahy, Cristina L. Swanson, Anatoly V. Rubtsov, Raul M. Torres, and Roberta Pelanda

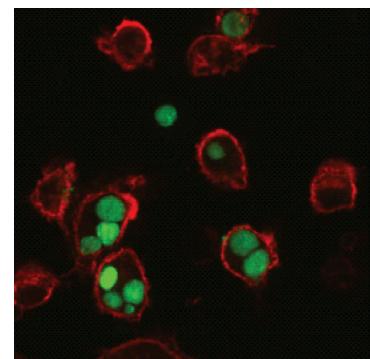
- 1813 Macrophages induce differentiation of plasma cells through CXCL10/IP-10
Wei Xu, HyeMee Joo, Sandra Clayton, Melissa Dullaers, Marie-Cecile Herve, Derek Blankenship, Maria Teresa De La Morena, Robert Balderas, Capucine Picard, Jean-Laurent Casanova, Virginia Pascual, SangKon Oh, and Jacques Banchereau
- 1825 Extrafollicular B cell activation by marginal zone dendritic cells drives T cell-dependent antibody responses
Craig P. Chappell, Kevin E. Draves, Natalia V. Giltay, and Edward A. Clark
- 1841 Bcl6 expression specifies the T follicular helper cell program in vivo
Xindong Liu, Xiaowei Yan, Bo Zhong, Roza I. Nurieva, Aibo Wang, Xiaohu Wang, Natalia Martin-Orozco, Yihong Wang, Seon Hee Chang, Enric Esplugues, Richard A. Flavell, Qiang Tian, and Chen Dong
- 1853 LAPCs promote follicular helper T cell differentiation of Ag-primed CD4⁺ T cells during respiratory virus infection
Jae-Kwang Yoo, Eleanor N. Fish, and Thomas J. Braciale
- 1869 Cancer immunoediting by the innate immune system in the absence of adaptive immunity
Timothy O'Sullivan, Robert Saddawi-Konefka, William Vermi, Catherine M. Koebel, Cora Arthur, J. Michael White, Ravi Uppaluri, Daniel M. Andrews, Shin Foong Ngiow, Michele W.L. Teng, Mark J. Smyth, Robert D. Schreiber, and Jack D. Bui
- 1883 Disruption of SIRP α signaling in macrophages eliminates human acute myeloid leukemia stem cells in xenografts
Alexandre P.A. Theocharides, Liqing Jin, Po-Yan Cheng, Tatiana K. Prasolava, Andrei V. Malko, Jenny M. Ho, Armando G. Poepli, Nico van Rooijen, Mark D. Minden, Jayne S. Danska, John E. Dick, and Jean C.Y. Wang

Corrections

- 1901 Constitutive intestinal NF- κ B does not trigger destructive inflammation unless accompanied by MAPK activation
Monica Guma, Dariusz Stepiak, Helena Shaked, Martina E. Spehlmann, Steve Shenouda, Hilde Cheroutre, Ildelfonso Vicente-Suarez, Lars Eckmann, Martin F. Kagnoff, and Michael Karin



DC-mediated B cell activation.
[See page 1825](#)



SIRP α directs macrophage removal of AML stem cells.
[See page 1883](#)