

ON THE COVER

Wang et al. show that the transcription factor Batf is required for the induction of gut-homing receptors on T cells in response to retinoic acid. The image shows CD4⁺ (blue) and CD8⁺ (red) T cells in the small intestinal villi in wild-type mice.
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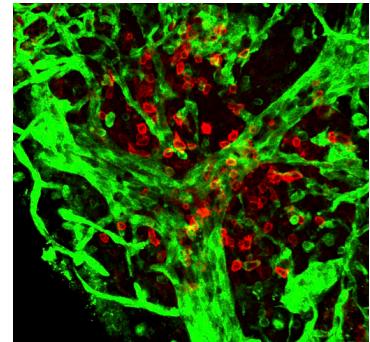
Brief Definitive Reports

- 433 Loss-of-function mutations in the IL-21 receptor gene cause a primary immunodeficiency syndrome
Daniel Kotlarz, Natalia Ziętara, Gulbu Uzel, Thomas Weidemann, Christian J. Braun, Jana Diestelhorst, Peter M. Krawitz, Peter N. Robinson, Jochen Hecht, Jacek Puchałka, E. Michael Gertz, Alejandro A. Schäffer, Monica G. Lawrence, Lela Kardava, Dietmar Pfeifer, Ulrich Baumann, Eva-Doreen Pfister, Eric P. Hanson, Axel Schambach, Roland Jacobs, Hans Kreipe, Susan Moir, Joshua D. Milner, Petra Schwille, Stefan Mundlos, and Christoph Klein
- 445 Monoclonal IgG antibodies generated from joint-derived B cells of RA patients have a strong bias toward citrullinated autoantigen recognition
Khaled Amara, Johanna Steen, Fiona Murray, Henner Morbach, Blanca M. Fernandez-Rodriguez, Vijay Joshua, Marianne Engström, Omri Snir, Lena Israelsson, Anca I. Catrina, Hedda Wardemann, Davide Corti, Eric Meffre, Lars Klareskog, and Vivianne Malmström
- 457 Germinal center B cells govern their own fate via antibody feedback
Yang Zhang, Michael Meyer-Hermann, Laura A. George, Marc Thilo Figge, Mahmood Khan, Margaret Goodall, Stephen P. Young, Adam Reynolds, Francesco Falciani, Ari Waisman, Clare A. Notley, Michael R. Ehrenstein, Marie Kosco-Vilbois, and Kai-Michael Toellner
- 465 Endothelial cell–specific lymphotoxin- β receptor signaling is critical for lymph node and high endothelial venule formation
Lucas Onder, Renzo Danuser, Elke Scandella, Sonja Firner, Qian Chai, Thomas Hehlgans, Jens V. Stein, and Burkhard Ludewig

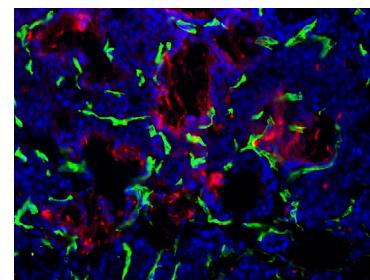
Articles

- 475 BATF is required for normal expression of gut-homing receptors by T helper cells in response to retinoic acid
Chuanwu Wang, Shankar Thangamani, Myunghoo Kim, Bon-Hee Gu, Jee H. Lee, Elizabeth J. Taparowsky, and Chang H. Kim
- 491 IL-1 enhances expansion, effector function, tissue localization, and memory response of antigen-specific CD8 T cells
Shlomo Z. Ben-Sasson, Alison Hogg, Jane Hu-Li, Paul Wingfield, Xi Chen, Michelle Crank, Stephane Caucheteux, Maya Ratner-Hurevich, Jay A. Berzofsky, Ran Nir-Paz, and William E. Paul
- 503 IL-1R1 is required for dendritic cell–mediated T cell reactivation within the CNS during West Nile virus encephalitis
Douglas M. Durrant, Michelle L. Robinette, and Robyn S. Klein

- 517 IL-27 inhibits HIV-1 infection in human macrophages by down-regulating host factor SPTBN1 during monocyte o macrophage differentiation
Lue Dai, Kristy B. Lidie, Qian Chen, Joseph W. Adelsberger, Xin Zheng, DaWei Huang, Jun Yang, Richard A. Lempicki, Tauseef Rehman, Robin L. Dewar, Yanmei Wang, Ronald L. Hornung, Kelsey A. Canizales, Stephen J. Lockett, H. Clifford Lane, and Tomozumi Imamichi
- 535 Innate lymphoid type 2 cells sustain visceral adipose tissue eosinophils and alternatively activated macrophages
Ari B. Molofsky, Jesse C. Nussbaum, Hong-Erh Liang, Steven J. Van Dyken, Laurence E. Cheng, Alexander Mohapatra, Ajay Chawla, and Richard M. Locksley
- 551 Innate Stat3-mediated induction of the antimicrobial protein Reg3 γ is required for host defense against MRSA pneumonia
Sun-Mi Choi, Jeremy P. McAleer, Mingquan Zheng, Derek A. Pociask, Mark H. Kaplan, Shulin Qin, Todd A. Reinhart, and Jay K. Kolls
- 563 Deficiency for endoglin in tumor vasculature weakens the endothelial barrier to metastatic dissemination
Charlotte Anderberg, Sara I. Cunha, Zhenhua Zhai, Eliane Cortez, Evangelia Pardali, Jill R. Johnson, Marcela Franco, Marta Páez-Ribes, Ross Cordiner, Jonas Fuxé, Bengt R. Johansson, Marie-José Goumans, Oriol Casanovas, Peter ten Dijke, Helen M. Arthur, and Kristian Pietras
- 581 p63 is an alternative p53 repressor in melanoma that confers chemoresistance and a poor prognosis
Rubeta N. Matin, Anissa Chikh, Stephanie Law Pak Chong, David Mesher, Manuela Graf, Paolo Sanza', Valentina Senatore, Maria Scatolini, Francesca Moretti, Irene M. Leigh, Charlotte M. Proby, Antonio Costanzo, Giovanna Chiorino, Rino Cerio, Catherine A. Harwood, and Daniele Bergamaschi
- 605 Cytotoxic T cells induce proliferation of chronic myeloid leukemia stem cells by secreting interferon- γ
Christian Schürch, Carsten Riether, Michael A. Amrein, and Adrian F. Ochsenbein
- 623 TGF β restores hematopoietic homeostasis after myelosuppressive chemotherapy
Fabienne Brenet, Pouneh Kermani, Roman Spektor, Shahin Rafii, Joseph M. Scandura



LTBR expression on endothelial cells is required for proper lymph node development and architecture.
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Endoglin deficiency enhances metastasis.
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Corrections

- 641 Alternative end-joining catalyzes class switch recombination in the absence of both Ku70 and DNA ligase 4
Cristian Boboila, Catherine Yan, Duane R. Wesemann, Mila Jankovic, Jing H. Wang, John Manis, Andre Nussenzweig, Michel Nussenzweig, and Frederick W. Alt