

Letters

- 2563 **A human equivalent of mouse B-1 cells?**
Marc Descatoire, Jean-Claude Weill, Claude-Agnès Reynaud, and Sandra Weller

The nature of circulating CD27⁺CD43⁺ B cells

Martin Perez-Andres, Christina Grosserichter-Wagener, Cristina Teodosio, Jacques J.M. van Dongen, Alberto Orfao, and Menno C. van Zelm

Human B1 cells are CD3⁻: A reply to “A human equivalent of mouse B-1 cells?” and “The nature of circulating CD27⁺CD43⁺ B cells”

Daniel O. Griffin, Nichol E. Holodick, and Thomas L. Rothstein

Brief Definitive Reports

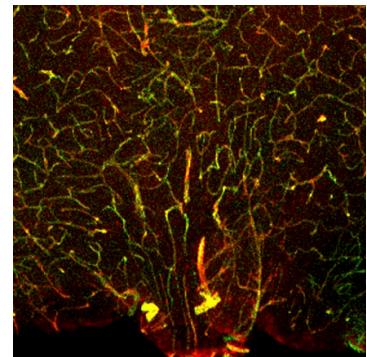
- 2571 **ETV6 mutations in early immature human T cell leukemias**
Pieter Van Vlierberghe, Alberto Ambesi-Impiombato, Arianne Perez-Garcia, J. Erika Haydu, Isaura Rigo, Michael Hadler, Valeria Tosello, Giusy Della Gatta, Elisabeth Paietta, Janis Racevskis, Peter H. Wiernik, Selina M. Luger, Jacob M. Rowe, Montserrat Rue, and Adolfo A. Ferrando
- 2581 **A genomic storm in critically injured humans**
Wenzhong Xiao, Michael N. Mindrinos, Junhee Seok, Joseph Cuschieri, Alex G. Cuenca, Hong Gao, Douglas L. Hayden, Laura Hennessy, Ernest E. Moore, Joseph P. Minei, Paul E. Bankey, Jeffrey L. Johnson, Jason Sperry, Avery B. Nathens, Timothy R. Billiar, Michael A. West, Bernard H. Brownstein, Philip H. Mason, Henry V. Baker, Celeste C. Finnerty, Marc G. Jeschke, M. Cecilia López, Matthew B. Klein, Richard L. Gamelli, Nicole S. Gibran, Brett Arnoldo, Weihong Xu, Yuping Zhang, Steven E. Calvano, Grace P. McDonald-Smith, David A. Schoenfeld, John D. Storey, J. Perren Cobb, H. Shaw Warren, Lyle L. Moldawer, David N. Herndon, Stephen F. Lowry, Ronald V. Maier, Ronald W. Davis, Ronald G. Tompkins, and the Inflammation and Host Response to Injury Large-Scale Collaborative Research Program
- 2591 **A small CD11b⁺ human B1 cell subpopulation stimulates T cells and is expanded in lupus**
Daniel O. Griffin and Thomas L. Rothstein
- 2599 **Memory B cells, but not long-lived plasma cells, possess antigen specificities for viral escape mutants**
Whitney E. Purtha, Thomas F. Tedder, Syd Johnson, Deepta Bhattacharya, and Michael S. Diamond
- 2607 **Langerhans cell antigen capture through tight junctions confers preemptive immunity in experimental staphylococcal scalded skin syndrome**
Takeshi Ouchi, Akiharu Kubo, Mariko Yokouchi, Takeya Adachi, Tetsuro Kobayashi, Daniela Y. Kitashima, Hideki Fujii, Björn E. Clausen, Shigeo Koyasu, Masayuki Amagai, and Keisuke Nagao

ON THE COVER

Ouchi et al. demonstrate that epidermal Langerhans cells are able to take up antigen through intact tight junctions and drive neutralizing antibody production specific for *Staphylococcus aureus*-derived exfoliative toxin (ET). Dermal dendritic cells are not required for this response. The authors' original image shows a hematoxylin and eosin staining of the ear skin of mice subjected to patch immunization with recombinant ET.

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- 2615 TAK1 in brain endothelial cells mediates fever and lethargy
Dirk A. Ridder, Ming-Fei Lang, Sergei Salinin, Jan-Peter Röderer, Marcel Struss, Christiane Maser-Gluth, and Markus Schwaninger

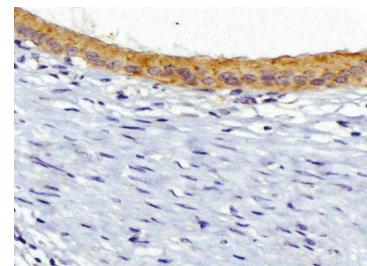


Fever and lethargy require TAK1 in brain endothelium.
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- 2625 Autophagy in antigen-presenting cells results in presentation of citrullinated peptides to CD4 T cells
Jamie M. Ireland and Emil R. Unanue
- 2633 CEACAM1 dampens antitumor immunity by down-regulating NKG2D ligand expression on tumor cells
Zhangguo Chen, Lanfen Chen, Kristi Baker, Torsten Olszak, Sebastian Zeissig, Yu-Hwa Huang, Timothy T. Kuo, Ofer Mandelboim, Nicole Beauchemin, Lewis L. Lanier, and Richard S. Blumberg

Articles

- 2641 Bone morphogenetic protein 7 in dormancy and metastasis of prostate cancer stem-like cells in bone
Aya Kobayashi, Hiroshi Okuda, Fei Xing, Puspa R. Pandey, Misako Watabe, Shigeru Hirota, Sudha K. Pai, Wen Liu, Koji Fukuda, Christopher Chambers, Andrew Wilber, and Kounosuke Watabe
- 2657 Guanylate binding protein 1 is a novel effector of EGFR-driven invasion in glioblastoma
Ming Li, Akitake Mukasa, Maria del-Mar Inda, Jianhua Zhang, Lynda Chin, Webster Cavenee, and Frank Furnari
- 2675 A genome-wide RNAi screen in mouse embryonic stem cells identifies Mp1 as a key mediator of differentiation
Bart A. Westerman, A. Koen Braat, Nicole Taub, Marko Potman, Joseph H.A. Vissers, Marleen Blom, Els Verhoeven, Hans Stoop, Ad Gillis, Arno Velds, Wouter Nijkamp, Roderick Beijersbergen, Lukas A. Huber, Leendert H.J. Looijenga, and Maarten van Lohuizen
- 2691 Clonal analysis reveals multiple functional defects of aged murine hematopoietic stem cells
Brad Dykstra, Sandra Olthof, Jaring Schreuder, Martha Ritsema, and Gerald de Haan
- 2705 Host innate recognition of an intestinal bacterial pathogen induces TRIF-dependent protective immunity
John Sotolongo, Cecilia España, Andrea Echeverry, David Sieffker, Norman Altman, Julia Zaias, Rebeca Santaolalla, Jose Ruiz, Kurt Schessier, Becky Adkins, and Masayuki Fukata
- 2717 miR-150 regulates the development of NK and iNKT cells
Natalie A. Bezman, Tirtha Chakraborty, Timothy Bender, and Lewis L. Lanier



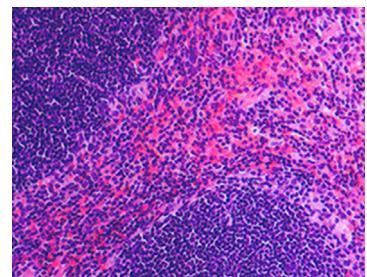
Mp1 influences pluripotency.
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- 2733** Immature B cells preferentially switch to IgE with increased direct $S\mu$ to $S\epsilon$ recombination

Duane R. Wesemann, Jennifer M. Magee, Cristian Boboila, Dinis Pedro Calado, Michael P. Gallagher, Andrew J. Portuguese, John P. Manis, Xiaolong Zhou, Mike Recher, Klaus Rajewsky, Luigi D. Notarangelo, and Frederick W. Alt

- 2747** Evolutionary genetic dissection of human interferons

Jérémie Manry, Guillaume Laval, Etienne Patin, Simona Fornarino, Yuval Itan, Matteo Fumagalli, Manuela Sironi, Magali Tichit, Christiane Bouchier, Jean-Laurent Casanova, Luis B. Barreiro, and Lluís Quintana-Murci



TRIF protects against enteric bacteria.
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Corrections

- 2761** Osteoclasts are dispensable for hematopoietic stem cell maintenance and mobilization

Kana Miyamoto, Shigeyuki Yoshida, Miyuri Kawasumi, Kazuaki Hashimoto, Tokuhiro Kimura, Yuiko Sato, Tami Kobayashi, Yoshiteru Miyauchi, Hiroko Hoshi, Ryotaro Iwasaki, Hiroya Miyamoto, Wu Hao, Hideo Morioka, Kazuhiro Chiba, Takashi Kobayashi, Hisataka Yasuda, Josef M. Penninger, Yoshiaki Toyama, Toshio Suda, and Takeshi Miyamoto