

Brief Definitive Reports

- 633 Mechanisms of necroptosis in T cells
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- 643 Nucleic acid recognition by Toll-like receptors is coupled to stepwise processing by cathepsins and asparagine endopeptidase
Sarah E. Ewald, Alex Engel, Jiyoun Lee, Miqi Wang, Matthew Bogyo, and Gregory M. Barton
- 653 Clonal selection in xenografted human T cell acute lymphoblastic leukemia recapitulates gain of malignancy at relapse
Emmanuelle Clappier, Bastien Gerby, François Sigaux, Marc Delord, Farah Touzri, Lucie Hernandez, Paola Ballerini, André Baruchel, Françoise Pflumio, and Jean Soulier

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- 663 Repression of tumor suppressor miR-451 is essential for NOTCH1-induced oncogenesis in T-ALL
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- 677 Notch signaling in stomach epithelial stem cell homeostasis
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- 689 A GATA4-regulated tumor suppressor network represses formation of malignant human astrocytomas
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- 703 Structure of the human activating natural cytotoxicity receptor NKp30 bound to its tumor cell ligand B7-H6
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- 715 G-CSF influences mouse skeletal muscle development and regeneration by stimulating myoblast proliferation
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- 729 Viral infection prevents diabetes by inducing regulatory T cells through NKT cell–plasmacytoid dendritic cell interplay
Julien Diana, Vedran Brezar, Lucie Beaudoin, Marc Dalod, Andrew Mellor, Anna Tafuri, Matthias von Herrath, Christian Boitard, Roberto Mallone, and Agnès Lehuen

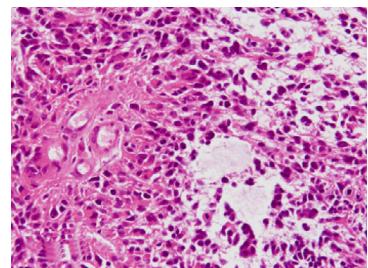


ON THE COVER

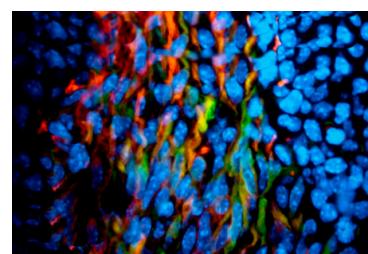
Kim and Shivdasani find that Notch signaling is needed for gastric stem cell maintenance, and that it influences gastric tumorigenesis in a cell context-dependent manner in mice. The image depicts an abstraction of the stomach glands of mice that express fluorescent proteins and were used for fate mapping studies. Artwork by Rachel Urkowitz (rach-elurk@earthlink.net).

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- 747** Migration of cytotoxic lymphocytes in cell cycle permits local MHC I-dependent control of division at sites of viral infection
Silvia S. Kang, Jasmin Herz, Jiyun V. Kim, Debasis Nayak, Phillip Stewart-Hutchinson, Michael L. Dustin, and Dorian B. McGavern
- 761** Prostaglandin E2 suppresses the differentiation of retinoic acid-producing dendritic cells in mice and humans
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- 775** Regulation of T cell receptor signaling by activation-induced zinc influx
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- 787** Transcriptional regulation of the Th17 immune response by IKK α
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- 797** Herpesvirus entry mediator (TNFRSF14) regulates the persistence of T helper memory cell populations
Pejman Soroosh, Taylor A. Doherty, Takanori So, Amit Kumar Mehta, Naseem Khorram, Paula S. Norris, Stefanie Scheu, Klaus Pfeffer, Carl Ware, and Michael Croft
- 811** A novel isoform of the Ly108 gene ameliorates murine lupus
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- 823** NFATc1 affects mouse splenic B cell function by controlling the calcineurin–NFAT signaling network
Sankar Bhattacharyya, Jolly Deb, Amiya K. Patra, Duong Anh Thuy Pham, Wen Chen, Martin Vaeth, Friederike Berberich-Siebelt, Stefan Klein-Hessling, Edward D. Lamperti, Kurt Reifenberg, Julia Jellusova, Astrid Schweizer, Lars Nitschke, Ellen Leich, Andreas Rosenwald, Cornelia Brunner, Swen Engelmann, Ursula Bommhardt, Andris Avots, Martin R. Müller, Eisaku Kondo, and Edgar Serfling
- 841** Genetic determination of the cellular basis of the sympathetic regulation of bone mass accrual
Daisuke Kajimura, Eiichi Hinoi, Mathieu Ferron, Aruna Kode, Kyle J. Riley, Bin Zhou, X. Edward Guo, and Gerard Karsenty
- 853** Selective stimulation of IL-4 receptor on smooth muscle induces airway hyperresponsiveness in mice
Charles Perkins, Noriko Yanase, George Smulian, Lucy Gildea, Tatyana Orekov, Crystal Potter, Frank Brombacher, Bruce Aronow, Marsha Wills-Karp, and Fred D. Finkelman



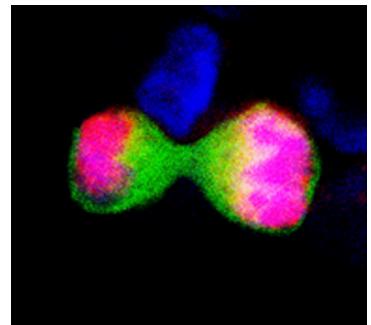
GATA4 represses astrocytoma formation.
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G-CSF promotes skeletal muscle regeneration.
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Corrections

- 869 Contribution of IL-17-producing $\gamma\delta$ T cells to the efficacy of anticancer chemotherapy
Yuting Ma, Laetitia Aymeric, Clara Locher, Stephen R. Mattarollo, Nicolas F. Delahaye, Pablo Pereira, Laurent Boucontet, Lionel Apetoh, François Ghiringhelli, Noëlia Casares, Juan José Lasarte, Goro Matsuzaki, Koichi Ikuta, Bernard Ryffel, Kamel Benlagha, Antoine Tesnière, Nicolas Ibrahim, Julie Déchanet-Merville, Nathalie Chaput, Mark J. Smyth, Guido Kroemer, and Laurence Zitvogel
- 871 Human B1 cells in umbilical cord and adult peripheral blood express the novel phenotype CD20⁺CD27⁺CD43⁺CD70⁻
Daniel O. Griffin, Nichol E. Holodick, and Thomas L. Rothstein



Cytotoxic T cells divide during migration.

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