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- 2601 **An actin shell delays oocyte chromosome capture by microtubules**
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- 2605 **Sorting the trash: Micronucleophagy gets selective**
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- 2609 **A new look for the growing microtubule end?**
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- 2613 **Directed migration: Cells navigate by extracellular vesicles**
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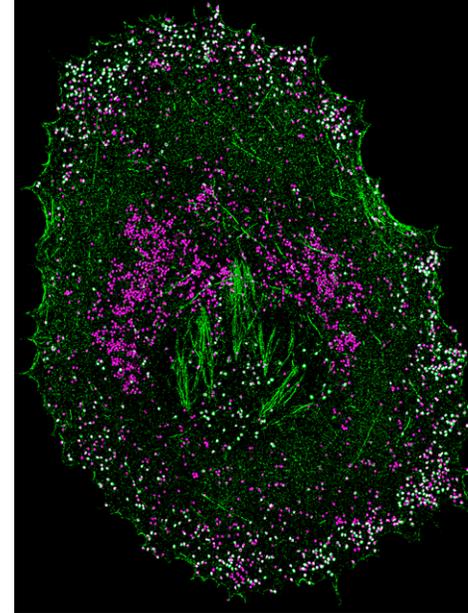
- 2615 **Posttranscriptional regulation of T helper cell fate decisions**
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- 2633 **Autophagosomal YKT6 is required for fusion with lysosomes independently of syntaxin 17**
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- 2647 **Microtubules assemble near most kinetochores during early prometaphase in human cells**
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- 2661 **F-Actin nucleated on chromosomes coordinates their capture by microtubules in oocyte meiosis**
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- 2675 **CLIP and cohibin separate rDNA from nucleolar proteins destined for degradation by nucleophagy**
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- 2691 **Microtubules grow by the addition of bent guanosine triphosphate tubulin to the tips of curved protofilaments**
 J. Richard McIntosh, Eileen O'Toole, Garry Morgan, Jotham Austin, Evgeniy Ulyanov, Fazoil Ataullakhanov, and Nikita Gudimchuk
- 2709 **Myosin VI and branched actin filaments mediate membrane constriction and fission of melanosomal tubule carriers**
 Léa Ripoll, Xavier Heiligenstein, Ilse Hurbain, Lia Domingues, Florent Figon, Karl J. Petersen, Megan K. Dennis, Anne Houdusse, Michael S. Marks, Graça Raposo, and Cédric Delevoye



ON THE COVER

An Airyscan confocal image of a HeLa cell 8 hours after infection with vaccinia virus shows that during its egress the virus (purple) on the plasma membrane recruits SEPT7 (green). The virus appears white where it overlaps with SEPT7. Image © Pfanzelter et al., 2018. See page 2911.

- 2727 **Endosomal TLR3, TLR7, and TLR8 control neuronal morphology through different transcriptional programs**
Yun-Fen Hung, Chiung-Ya Chen, Yi-Chun Shih, Hsin-Yu Liu, Chiao-Ming Huang, and Yi-Ping Hsueh
- 2743 **Atg9 establishes Atg2-dependent contact sites between the endoplasmic reticulum and phagophores**
Rubén Gómez-Sánchez, Jaqueline Rose, Rodrigo Guimarães, Muriel Mari, Daniel Papinski, Ester Rieter, Willie J. Geerts, Ralph Hardenberg, Claudine Kraft, Christian Ungermann, and Fulvio Reggiori
- 2765 **GATOR1-dependent recruitment of FLCN-FNIP to lysosomes coordinates Rag GTPase heterodimer nucleotide status in response to amino acids**
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- 2777 **Fibronectin rescues estrogen receptor α from lysosomal degradation in breast cancer cells**
Rocío G. Sampayo, Andrés M. Toscani, Matthew G. Rubashkin, Kate Thi, Luciano A. Masullo, Ianina L. Violi, Jonathon N. Lakins, Alfredo Cáceres, William C. Hines, Federico Coluccio Leskow, Fernando D. Stefani, Dante R. Chialvo, Mina J. Bissell, Valerie M. Weaver, and Marina Simian
- 2799 **Integrin $\alpha 4 \beta 7$ switches its ligand specificity via distinct conformer-specific activation**
ShiHui Wang, ChenYu Wu, YueBin Zhang, QingLu Zhong, Hao Sun, WenPeng Cao, GaoXiang Ge, GuoHui Li, X. Frank Zhang, and JianFeng Chen
- 2813 **Vav3-induced cytoskeletal dynamics contribute to heterotypic properties of endothelial barriers**
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- 2831 **Actin filaments partition primary cilia membranes into distinct fluid corrals**
Sungsu Lee, Han Yen Tan, Ivayla I. Geneva, Aleksandr Kruglov, and Peter D. Calvert
- 2851 **SPATA7 maintains a novel photoreceptor-specific zone in the distal connecting cilium**
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- 2867 **Interaction of heterotrimeric kinesin-II with IFT-B-connecting tetramer is crucial for ciliogenesis**
Teruki Funabashi, Yohei Katoh, Misato Okazaki, Maho Sugawa, and Kazuhisa Nakayama
- 2877 **A Ca^{2+} -stimulated exosome release pathway in cancer cells is regulated by Munc13-4**
Scott W. Messenger, Sang Su Woo, Zhongze Sun, and Thomas F.J. Martin
- 2891 **Extracellular vesicles direct migration by synthesizing and releasing chemotactic signals**
Paul W. Kriebel, Ritankar Majumdar, Lisa M. Jenkins, Hiroshi Senoo, Weiye Wang, Sonia Ammu, Song Chen, Kedar Narayan, Miho Iijima, and Carole A. Parent
- 2911 **Septins suppress the release of vaccinia virus from infected cells**
Julia Pfanzelter, Serge Mostowy, and Michael Way

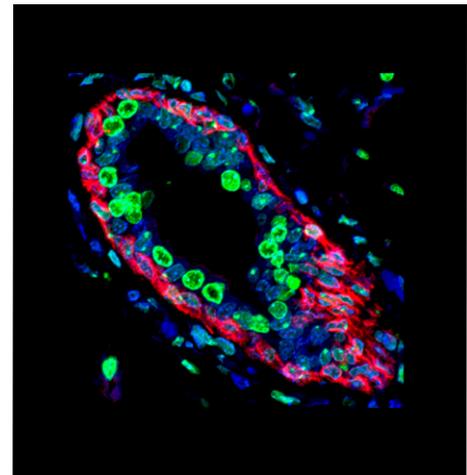


Image shows heterogeneous expression of the histone methyltransferase EZH2 in the mouse mammary epithelium. Mammary ducts from ovariectomized mice treated with 17β -estradiol and progesterone were labeled with DAPI to stain nuclei (blue), basal lineage marker cytokeratin 14 (red), and the epigenetic master-regulator EZH2 (green).
Image © Casey et al., 2018.
See page 2951.

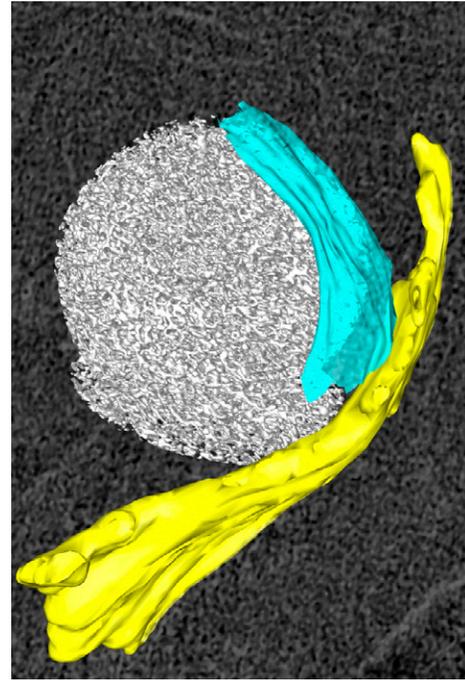
TOOLS

2931 **A timer for analyzing temporally dynamic changes in transcription during differentiation in vivo**

David Bending, Paz Prieto Martín, Alina Paduraru, Catherine Ducker, Erik Marzaganov, Marie Laviro, Satsuki Kitano, Hitoshi Miyachi, Tessa Crompton, and Masahiro Ono

2951 **Mammary molecular portraits reveal lineage-specific features and progenitor cell vulnerabilities**

Alison E. Casey, Ankit Sinha, Rajat Singhania, Julie Livingstone, Paul Waterhouse, Pirashaanthy Tharmapalan, Jennifer Cruickshank, Mona Shehata, Erik Drysdale, Hui Fang, Hyeyeon Kim, Ruth Isserlin, Swneke Bailey, Tiago Medina, Genevieve Deblois, Yu-Jia Shiah, Dalia Barsyte-Lovejoy, Stefan Hofer, Gary Bader, Mathieu Lupien, Cheryl Arrowsmith, Stefan Knapp, Daniel De Carvalho, Hal Berman, Paul C. Boutros, Thomas Kislinger, and Rama Khokha



A model based on immunoelectron tomography shows a phagophore (blue) in close connection with the endoplasmic reticulum (yellow) and in the process of sequestering an Ape1 oligomer (white sphere) during autophagy in the yeast *Saccharomyces cerevisiae*. Image © Gómez-Sánchez et al., 2018. See page 2743.