

SPOTLIGHTS

- e202001159 **Heparan sulfate and clusterine: Cleaning squad for extracellular protein degradation**
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- e202001185 **MapPing PI inside cells brings new light to polyphosphoinositide biology**
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- e201912100 **Peroxisome prognostications: Exploring the birth, life, and death of an organelle**
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- e201906039 **Mps1-mediated release of Mad1 from nuclear pores ensures the fidelity of chromosome segregation**
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- e201905144 **Aurora B kinase is recruited to multiple discrete kinetochore and centromere regions in human cells**
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- e201907087 **Untangling the contribution of Haspin and Bub1 to Aurora B function during mitosis**
Michael A. Hadders, Sanne Hindriksen, My Anh Truong, Aditya N. Mhaskar, J. Pepijn Wopken, Martijn J.M. Vromans, and Susanne M.A. Lens

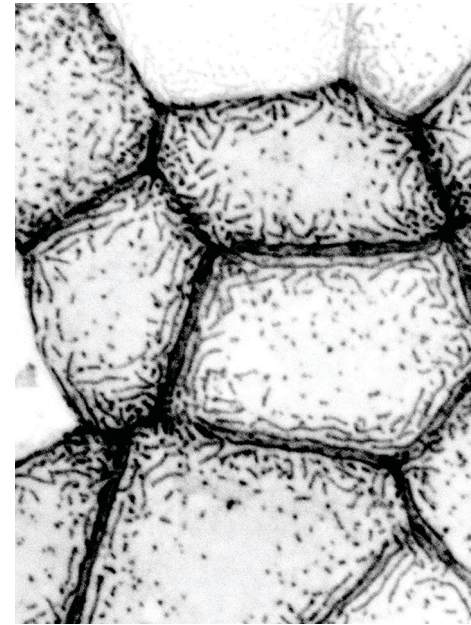
- e201907136 **Nek2 kinase displaces distal appendages from the mother centriole prior to mitosis**
Linda Viol, Shoji Hata, Ana Pastor-Peidro, Annett Neuner, Florian Murke, Patrick Wuchter, Anthony D. Ho, Bernd Giebel, and Gislene Pereira

- e201906031 **Differential turnover of Nup188 controls its levels at centrosomes and role in centriole duplication**
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- e201905091 **ESCRT-III-mediated membrane fusion drives chromosome fragments through nuclear envelope channels**
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- e201908195 **Active diffusion in oocytes nonspecifically centers large objects during prophase I and meiosis I**
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- e201906147 **CDK1 couples proliferation with protein synthesis**
Katharina Haneke, Johanna Schott, Doris Lindner, Anne Kruse Hollensen, Christian Kroun Damgaard, Cyril Mongis, Michael Knop, Wilhelm Palm, Alessia Ruggieri, and Georg Stoecklin



ON THE COVER

Image shows confocal maximum intensity projections of zebrafish periderm cells expressing Life-Act-GFP (black) to highlight actin in microridges, apical protrusions that form a maze-like pattern on cell surfaces.

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<https://doi.org/10.1083/jcb.201904144>

- e201905228 **Trpm1 controls actomyosin contractility and couples migration to phagocytosis in fly macrophages**
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- e201908142 **Dynamics of Auxilin 1 and GAK in clathrin-mediated traffic**
Kangmin He, Eli Song, Srigokul Upadhyayula, Song Dang, Raphael Gaudin, Wesley Skillern, Kevin Bu, Benjamin R. Capraro, Iris Rapoport, Ilja Kusters, Minghe Ma, and Tom Kirchhausen
- e201902127 **TORC1 regulates vacuole membrane composition through ubiquitin- and ESCRT-dependent microautophagy**
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- e201904113 **ALIX- and ESCRT-III-dependent sorting of tetraspanins to exosomes**
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- e201808017 **An early endosome-derived retrograde trafficking pathway promotes secretory granule maturation**
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- e201904144 **Cortical contraction drives the 3D patterning of epithelial cell surfaces**
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- e201903135 **Syncrip/hnRNP Q is required for activity-induced Msp300/Nesprin1 expression and new synapse formation**
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- e201911126 **Heparan sulfate is a clearance receptor for aberrant extracellular proteins**
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- e201907013 **Spatiotemporal control of phosphatidic acid signaling with optogenetic, engineered phospholipase Ds**
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- e201906127 **Probing the subcellular distribution of phosphatidylinositol reveals a surprising lack at the plasma membrane**
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- e201906130 **Defining the subcellular distribution and metabolic channeling of phosphatidylinositol**
Joshua G. Pemberton, Yeun Ju Kim, Jana Humpolickova, Andrea Eisenreichova, Nivedita Sengupta, Daniel J. Toth, Evzen Boura, and Tamas Balla

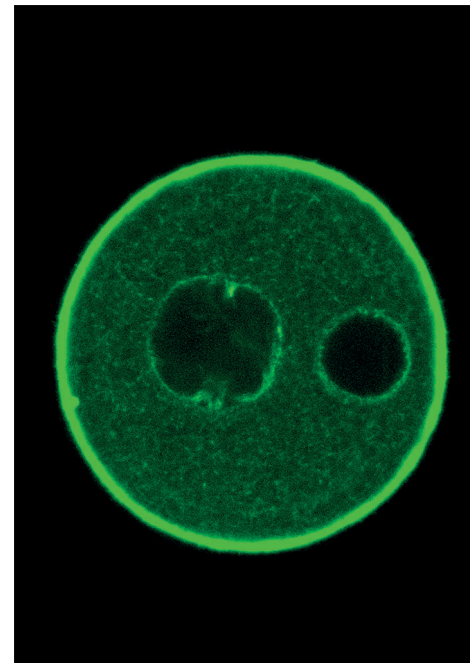


Image shows a mouse prophase I oocyte, with its large nucleus (left side), injected with an oil droplet (right side), and expressing the GFP-UtrCH probe, which labels F-actin. Image © Colin et al., 2020
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