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Two HeLa daughter cells expressing EphB2 (cyan) remain connected by a long intercellular bridge filled with tubulin (red). Jungas et al. show that activation of EphB2 leads to abscission delay at the end of cell division. Image © 2016 Jungas et al. See page 555.

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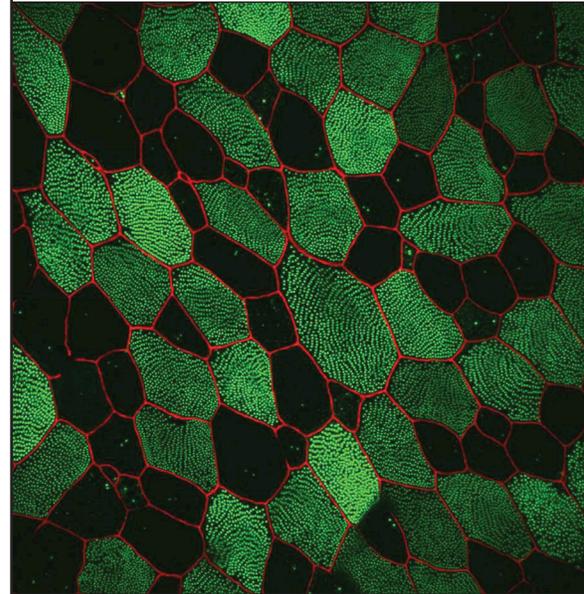
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An siRNA screen for ATG protein depletion reveals the extent of the unconventional functions of the autophagy proteome in virus replication

Mario Mauthe, Martijn Langereis, Jennifer Jung, Xingdong Zhou, Alex Jones, Wienand Omta, Sharon A. Tooze, Björn Stork, Søren Riis Paludan, Tero Ahola, David Egan, Christian Behrends, Michal Mokry, Cornelis de Haan, Frank van Kuppeveld, and Fulvio Reggiori



Herawati et al. developed a long-term, high-resolution, live imaging system in cultured mouse tracheal multiciliated cells (MCCs), which have large numbers of basal bodies (BBs), short cylindrical structures at the base of mature cilia. They found that during MCC differentiation, BBs adopt four stereotypical patterns, from a clustering “flore” pattern to the linear “alignment.” In a mature MCC, hundreds of BBs are linearly aligned, as shown by GFP-centrin2. Cell boundary is marked by ZO-1 (red).

Image © 2016 Herawati et al.

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