

PEOPLE & IDEAS

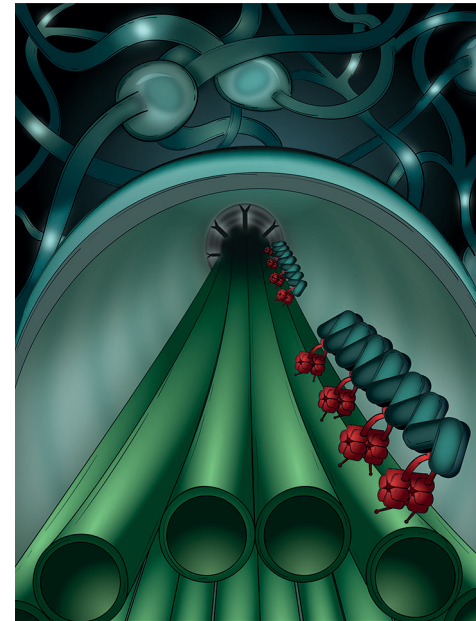
- e202112049 **Rushika M. Perera: Lysosomes unveil what cancer cells hide**
Lucia Morgado-Palacin

SPOTLIGHTS

- e202111032 **Stressed-out yeast do not pass GO**
Hilary A. Collier
- e202112057 **Thank ORP9 for FFAT: With endosomal ORP10, it's fission accomplished!**
Louise H. Wong, Andrea Martello, and Emily R. Eden
- e202111008 **The ideo of MARCH5: The E3 ligase essential for peroxisome degradation by pexophagy**
Harald W. Platta and Ralf Erdmann
- e202112015 **IFT trains overcome an NPHP module barrier at the transition zone**
Kwangjin Park and Michel R. Leroux

ARTICLES

- e202103171 **Cell cycle-independent integration of stress signals by Xbp1 promotes Non-G1/G0 quiescence entry**
Orlando Argüello-Miranda, Ashley J. Marchand, Taylor Kennedy, Marielle A.X. Russo, and Jungsik Noh
- e202104099 **Pcp1/pericentrin controls the SPB number in fission yeast meiosis and ploidy homeostasis**
Qian Zhu, Zhaodi Jiang, and Xiangwei He
- e202007209 **Astral microtubule cross-linking safeguards uniform nuclear distribution in the *Drosophila* syncytium**
Ojas Deshpande, Jorge de-Carvalho, Diana V. Vieira, and Ivo A. Telley
- e202105092 **LUBAC regulates ciliogenesis by promoting CP110 removal from the mother centriole**
Xiao-Lin Shen, Jin-Feng Yuan, Xuan-He Qin, Guang-Ping Song, Huai-Bin Hu, Hai-Qing Tu, Zeng-Qing Song, Pei-Yao Li, Yu-Ling Xu, Sen Li, Xiao-Xiao Jian, Jia-Ning Li, Chun-Yu He, Xi-Ping Yu, Li-Yun Liang, Min Wu, Qiu-Ying Han, Kai Wang, Ai-Ling Li, Tao Zhou, Yu-Cheng Zhang, Na Wang, and Hui-Yan Li
- e202102110 **CEP97 phosphorylation by Dyrk1a is critical for centriole separation during multiciliogenesis**
Moonsup Lee, Kunio Nagashima, Jaeho Yoon, Jian Sun, Ziqiu Wang, Christina Carpenter, Hyun-Kyung Lee, Yoo-Seok Hwang, Christopher J. Westlake, and Ira O. Daar
- e202103141 **PI4P/PS countertransport by ORP10 at ER-endosome membrane contact sites regulates endosome fission**
Asami Kawasaki, Akiko Sakai, Hiroki Nakanishi, Junya Hasegawa, Tomohiko Taguchi, Junko Sasaki, Hiroyuki Arai, Takehiko Sasaki, Michihiro Igarashi, and Fubito Nakatsu
- e202103199 **Clathrin adaptors mediate two sequential pathways of intra-Golgi recycling**
Jason C. Casler, Natalie Johnson, Adam H. Krahn, Areti Pantazopoulou, Kasey J. Day, and Benjamin S. Glick
- e202103156 **Ubiquitin ligase MARCH5 localizes to peroxisomes to regulate pexophagy**
Jun Zheng, Xi Chen, Qiang Liu, Guisheng Zhong, and Min Zhuang



ON THE COVER

Artistic representation of dynein-2 molecular motors (red) powering retrograde intraflagellar transport (IFT) on axonemal microtubules (green). This retrograde IFT machinery advances toward the ciliary transition zone barrier (dark grey at the end of the microtubule tracks), which they need to cross in order to exit the cilium.
Image © Maria J.G. De-Castro, 2021
<https://doi.org/10.1083/jcb.202010178>

e202012097 **pVHL-mediated SMAD3 degradation suppresses TGF- β signaling**
Jun Zhou, Yasamin Dabiri, Rodrigo A. Gama-Brambila, Shahrouz Ghafoory, Mukaddes Altinbay, Arianeb Mehrabi, Mohammad Golriz, Biljana Blagojevic, Stefanie Reuter, Kang Han, Anna Seidel, Ivan Đikić, Stefan Wölfel, and Xinlai Cheng

e202103033 **CHMP2B regulates TDP-43 phosphorylation and cytotoxicity independent of autophagy via CK1**
Xue Deng, Xing Sun, Wenkai Yue, Yongjia Duan, Rirong Hu, Kai Zhang, Jiangxia Ni, Jihong Cui, Qiangqiang Wang, Yelin Chen, Ang Li, and Yanshan Fang

e202010178 **WDR60-mediated dynein-2 loading into cilia powers retrograde IFT and transition zone crossing**
Ana R.G. De-Castro, Diogo R.M. Rodrigues, Maria J.G. De-Castro, Neide Vieira, Cármen Vieira, Ana X. Carvalho, Reto Gassmann, Carla M.C. Abreu, and Tiago J. Dantas

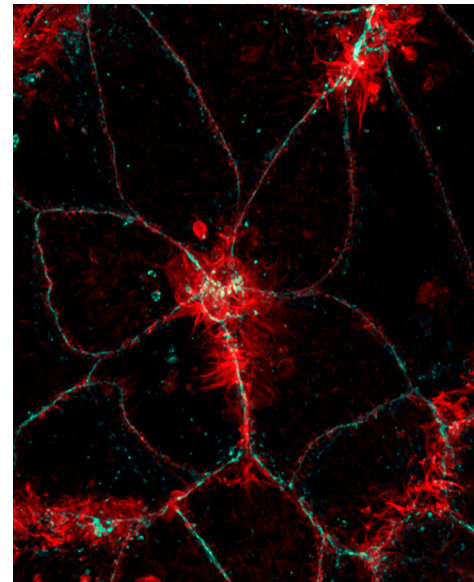
e202103074 **Micron-scale supramolecular myosin arrays help mediate cytoskeletal assembly at mature adherens junctions**
Hui-Chia Yu-Kemp, Rachel A. Szymanski, Daniel B. Cortes, Nicole C. Gadda, Madeline L. Lillich, Amy S. Maddox, and Mark Peifer

TOOLS

e202106170 **Volumetric morphometry reveals spindle width as the best predictor of mammalian spindle scaling**
Tobias Kletter, Sebastian Reusch, Tommaso Cavazza, Nils Dempewolf, Christian Tischer, and Simone Reber

e202106044 **Quantitative correlative microscopy reveals the ultrastructural distribution of endogenous endosomal proteins**
Jan van der Beek, Cecilia de Heus, Nalan Liv, and Judith Klumperman

e202106100 **Shared and specific functions of Arfs 1-5 at the Golgi revealed by systematic knockouts**
Mirjam Pennauer, Katarzyna Buczak, Cristina Prescianotto-Baschong, and Martin Spiess



Caco-2 cells expressing GFP-tagged E-cadherin (cyan) and Actin (red) stained with phalloidin. Cells were treated with the Rho-associated protein kinase inhibitor Y-27632 and imaged 240 mins after cell-cell junction formation.
Image © Yu-Kemp et al., 2021
<https://doi.org/10.1083/jcb.202103074>