



Cover: Septins form filaments that exhibit a strong accumulation of septin subunits at the growing poles of hyphae. Endosomal transport and assembly are needed for this accumulation. Hyphae of *Ustilago maydis* expressing the septin Cdc3 fused to GFP are depicted (maximum projection of z-stack images). Fluorescence intensities are shown in pseudo-colour using warm and cold colours for high and low signal intensities, respectively. See article by Zander et al. (pp. 2778–2792).

CELL SCIENCE AT A GLANCE

- 2689 Myosin-I molecular motors at a glance
McIntosh, B. B. and Ostap, E. M.

COMMENTARY

- 2697 Uses and abuses of macropinocytosis
Bloomfield, G. and Kay, R. R.

SHORT REPORTS

- 2707 The N-terminus of survivin is a mitochondrial-targeting sequence and Src regulator
Dunajová, L., Cash, E., Markus, R., Rochette, S., Townley, A. R. and Wheatley, S. P.
- 2713 Cep78 is a new centriolar protein involved in Plk4-induced centriole overduplication
Brunk, K., Zhu, M., Bärenz, F., Kratz, A.-S., Haselmann-Weiss, U., Antony, C. and Hoffmann, I.
- 2719 DDA3 and Mdp3 modulate Kif2a recruitment onto the mitotic spindle to control minus-end spindle dynamics
Kwon, H. J., Park, J. E., Song, H. and Jang, C.-Y.
- 2726 Does Unc-GFP uncover ciliary structures in the rhabdomeric eye of *Drosophila*?
Gottardo, M., Callaini, G. and Riparbelli, M. G.

RESEARCH ARTICLES

- 2732 deleterious assembly of the lamin A/C mutant p.S143P causes ER stress in familial dilated cardiomyopathy
West, G., Gullmets, J., Virtanen, L., Li, S.-P., Keinänen, A., Shimi, T., Mauermann, M., Heliö, T., Kaartinen, M., Ollila, L., Kuusisto, J., Eriksson, J. E., Goldman, R. D., Herrmann, H. and Taimen, P.
- 2744 The Nim1 kinase Gin4 has distinct domains crucial for septin assembly, phospholipid binding and mitotic exit
Au Yong, J. Y., Wang, Y.-M. and Wang, Y.
- 2757 *Tll9*^{-/-} mice sperm flagella show shortening of doublet 7, reduction of doublet 5 polyglutamylation and a stall in beating
Konno, A., Ikegami, K., Konishi, Y., Yang, H.-J., Abe, M., Yamazaki, M., Sakimura, K., Yao, I., Shiba, K., Inaba, K. and Setou, M.

- 2767 Ccndbp1 is a new positive regulator of skeletal myogenesis

Huang, Y., Chen, B., Ye, M., Liang, P., Zhangfang, Y., Huang, J., Liu, M., Songyang, Z. and Ma, W.

- 2778 Endosomal assembly and transport of heteromeric septin complexes promote septin cytoskeleton formation
Zander, S., Baumann, S., Weidtkamp-Peters, S. and Feldbrügge, M.

- 2793 APPL1 gates long-term potentiation through its plekstrin homology domain
Fernández-Monreal, M., Sánchez-Castillo, C. and Esteban, J. A.

- 2804 Sorting nexin 9 negatively regulates invadopodia formation and function in cancer cells
Bendris, N., Stearns, C. J. S., Reis, C. R., Rodriguez-Canales, J., Liu, H., Witkiewicz, A. W. and Schmid, S. L.

- 2817 Organelle size control – increasing vacuole content activates SNAREs to augment organelle volume through homotypic fusion
Desfougères, Y., Neumann, H. and Mayer, A.

- 2829 The Rho GTPase Rif signals through IRTKS, Eps8 and WAVE2 to generate dorsal membrane ruffles and filopodia
Sudhaharan, T., Sem, K. P., Liew, H. F., Yu, Y. H., Goh, W. I., Chou, A. M. and Ahmed, S.

- 2841 CCN6 regulates mitochondrial function
Patra, M., Mahata, S. K., Padhan, D. K. and Sen, M.

- 2852 Signaling pathways controlling activity-dependent local translation of BDNF and their localization in dendritic arbor
Baj, G., Pinhero, V., Vaghi, V. and Tongiorgi, E.

TOOLS AND TECHNIQUES

- 2865 Multifunctional *in vivo* imaging of pancreatic islets during diabetes development
Li, G., Wu, B., Ward, M. G., Chong, A. C. N., Mukherjee, S., Chen, S. and Hao, M.