



Cover: The image depicts a mouse oocyte at around metaphase-I of the meiotic cell cycle. The oocyte was fixed and stained for actin filaments (magenta), phosphorylated ezrin/radixin/moesin (green), and chromosomes (orange). Before release from prophase arrest, the oocyte was injected with a cRNA encoding LIMK1, in order to force cofilin phosphorylation and inactivation. The culture medium was also supplemented with 100 µM CK-666 in order to inhibit the Arp2/3 complex. These treatments promoted extensive elongation of membrane microvilli and their cytoplasmic actin rootlets, while the cytoplasmic F-actin mesh was depleted. See article by A. Bourdais et al. (jcs259237).

FIRST PERSON

First person – Keiichiro Sakai
jcs259652

First person – Shekhar Saha
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First person – Alessandra da Silva Dantas
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First person – Jia Yu and Pei-Ju Liao
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First person – Akruti Shah
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First person – Nadine Pollak
jcs259602

MEETING REPORT

Meeting report – the ever-fascinating world of septins
Baillet, A., McMurray, M. A. and Oakes, P. W.
jcs259552

REVIEW

The role of mitochondrial dynamics in mtDNA maintenance
Sabouny, R. and Shutt, T. E.
jcs258944

RESEARCH ARTICLES

The laminin-binding integrins regulate nuclear factor κB-dependent epithelial cell polarity and inflammation
Yazlovitskaya, E. M., Plosa, E., Bock, F., Viquez, O. M., Mernaugh, G., Gewin, L. S., De Arcangelis, A., Georges-Labouesse, E., Sonnenberg, A., Blackwell, T. S., Pozzi, A. and Zent, R.
jcs259161

Force-induced changes of α-catenin conformation stabilize vascular junctions independently of vinculin
Duong, C. N., Brückner, R., Schmitt, M., Nottebaum, A. F., Braun, L. J., Meyer zu Brickwedde, M., Ipe, U., vom Bruch, H., Schöler, H. R., Trapani, G., Trappmann, B., Ebrahimi-Kutty, M. P., Huvemeers, S., de Rooij, J., Ishiyama, N., Ikura, M. and Vestweber, D.
jcs259012

Structural model of human PORCN illuminates disease-associated variants and drug-binding sites
Yu, J., Liao, P.-J., Xu, W., Jones, J. R., Everman, D. B., Flanagan-Steet, H., Keller, T. H. and Virshup, D. M.
jcs259383

Cofilin regulates actin network homeostasis and microvilli length in mouse oocytes

Bourdais, A., Dehapiot, B. and Halet, G.
jcs259237

The tumor-suppressive long noncoding RNA DRAIC inhibits protein translation and induces autophagy by activating AMPK

Saha, S., Zhang, Y., Wilson, B., Abounader, R. and Dutta, A.
jcs259306

A single-molecule localization microscopy method for tissues reveals nonrandom nuclear pore distribution in *Drosophila*

Cheng, J., Allgeyer, E. S., Richens, J. H., Dzafic, E., Palandri, A., Lewkow, B., Sirinakis, G. and St Johnston, D.
jcs259570

IP6K1 upregulates the formation of processing bodies by influencing protein-protein interactions on the mRNA cap

Shah, A. and Bhandari, R.
jcs259117

Cell cycle progression and transmitotic apoptosis resistance promote escape from extrinsic apoptosis

Pollak, N., Lindner, A., Imig, D., Kuritz, K., Fritze, J. S., Decker, L., Heinrich, I., Stadager, J., Eisler, S., Stöhr, D., Allgöwer, F., Scheurich, P. and Rehm, M.
jcs258966

Crosstalk between the calcineurin and cell wall integrity pathways prevents chitin overexpression in *Candida albicans*
da Silva Dantas, A., Nogueira, F., Lee, K. K., Walker, L. A., Edmondson, M., Brand, A. C., Lenardon, M. D. and Gow, N. A. R.
jcs258889

WTS-1/LATS regulates endocytic recycling by restraining F-actin assembly in a synergistic manner

Zhang, H., Cheng, Z., Li, W., Hu, J., Zhao, L., Chen, D., Gao, J., Chen, J., Yan, Y., Lin, L. and Shi, A.
jcs259085

DUSP6 regulates radiosensitivity in glioblastoma by modulating the recruitment of phosphorylated DNAPKcs at DNA double-strand breaks

Nair, J., Syed, S. B., Mahaddalkar, T., Ketkar, M., Thorat, R., Goda, J. S. and Dutt, S.
jcs259520

ALG2 regulates type I interferon responses by inhibiting STING trafficking

Ji, W., Zhang, L., Xu, X. and Liu, X.
jcs259060

Frizzled3 inhibits Vangl2–Prickle3 association to establish planar cell polarity in the vertebrate neural plate
Chuykin, I., Itoh, K., Kim, K. and Sokol, S. Y.
jcs258864

Near-infrared imaging in fission yeast using a genetically encoded phycocyanobilin biosynthesis system
Sakai, K., Kondo, Y., Fujioka, H., Kamiya, M., Aoki, K. and Goto, Y.
jcs259315

TOOLS AND RESOURCES

Establishment and analysis of conditional Rab1- and Rab5-knockout cells using the auxin-inducible degron system
Hatoyama, Y., Homma, Y., Hiragi, S. and Fukuda, M.
jcs259184