



Cover: The mechanics of milk production. Confocal micrograph showing the mouse mammary gland during lactation. Milk-producing cells are shown in red, and milk-ejecting cells are shown in green, allowing exploration of the roles for ion channel-mediated mechanosignalling in the mammary gland. PIEZO1 Ca^{2+} -permeable ion channels are not essential for lactation or post-lactational regression. See article by T. A. Stewart et al. (jcs248849).

FIRST PERSON

First person – Rachael Norris
jcs258328

First person – Brittany J. Carr
jcs258326

First person – Leyao Shen and Deepika Sharma
jcs257998

First person – Juri Luis Habicht, Ashley Mooneyham and Asumi Hoshino
jcs258038

CELL SCIENTISTS TO WATCH

Cell scientist to watch – Anthony Roberts
jcs256172

CELL SCIENCE AT A GLANCE

Translation initiation in cancer at a glance
Smith, R. C. L., Kanellos, G., Vlahov, N., Alexandrou, C., Willis, A. E., Knight, J. R. P. and Sansom, O. J.
jcs248476

HYPOTHESIS

Hit the brakes – a new perspective on the loop extrusion mechanism of cohesin and other SMC complexes
Matityahu, A. and Onn, I.
jcs247577

REVIEW

Polarisome assembly mediates actin remodeling during polarized yeast and fungal growth
Xie, Y. and Miao, Y.
jcs247916

SHORT REPORT

The association of Plk1 with the astrin–kinastrin complex promotes formation and maintenance of a metaphase plate
Geraghty, Z., Barnard, C., Uluocak, P. and Gruneberg, U.
jcs251025

RESEARCH ARTICLES

Kindlin-2 promotes rear focal adhesion disassembly and directional persistence during cell migration
Liu, J., Liu, Z., Chen, K., Chen, W., Fang, X., Li, M., Zhou, X., Ding, N., Lei, H., Guo, C., Qian, T., Wang, Y., Liu, L., Chen, Y., Zhao, H., Sun, Y., Deng, Y. and Wu, C.
jcs244616

Switching between blebbing and lamellipodia depends on the degree of non-muscle myosin II activity
Ghosh, I., Singh, R. K., Mishra, M., Kapoor, S. and Jana, S. S.
jcs248732

Histone chaperone APLF level dictates the implantation of mouse embryos
Varghese, P. C., Rajam, S. M., Nandy, D., Jory, A., Mukherjee, A. and Dutta, D.
jcs246900

Distinct roles for prominin-1 and photoreceptor cadherin in outer segment disc morphogenesis in CRISPR-altered *X. laevis*
Carr, B. J., Stanar, P. and Moritz, O. L.
jcs253906

The protein tyrosine phosphatase PTP-PEST mediates hypoxia-induced endothelial autophagy and angiogenesis via AMPK activation
Chandel, S., Manikandan, A., Mehta, N., Nathan, A. A., Tiwari, R. K., Mohapatra, S. B., Chandran, M., Jaleel, A., Manoj, N. and Dixit, M.
jcs250274

Biphasic regulation of glutamine consumption by WNT during osteoblast differentiation
Shen, L., Sharma, D., Yu, Y., Long, F. and Karner, C. M.
jcs251645

The tight junction protein Claudin-5 limits endothelial cell motility
Yang, Z., Wu, S., Fontana, F., Li, Y., Xiao, W., Gao, Z., Krudewig, A., Affolter, M., Belting, H.-G., Abdelilah-Seyfried, S. and Zhang, J.
jcs248237

Concurrent depletion of Vps37 proteins evokes ESCRT-I destabilization and profound cellular stress responses
Kolmus, K., Erdenebat, P., Szymańska, E., Stewig, B., Goryca, K., Derezińska-Wołek, E., Szumera-Ciećkiewicz, A., Brewińska-Olchowik, M., Piwocka, K., Prochorec-Sobieszek, M., Mikula, M. and Miączyńska, M.
jcs250951

Mammary mechanobiology – investigating roles for mechanically activated ion channels in lactation and involution
Stewart, T. A., Hughes, K., Stevenson, A. J., Marino, N., Ju, A. L., Morehead, M. and Davis, F. M.
jcs248849

UNC-45A breaks the microtubule lattice independently of its effects on non-muscle myosin II
Habicht, J., Mooneyham, A., Hoshino, A., Shetty, M., Zhang, X., Emmings, E., Yang, Q., Coombes, C., Gardner, M. K. and Bazzaro, M.
jcs248815

TOOLS AND RESOURCES

Gap junction internalization and processing *in vivo*: a 3D immuno-electron microscopy study
Norris, R. P. and Terasaki, M.
jcs252726