



Cover: Fluorescence micrograph of human osteosarcoma U2OS cells fixed and stained for actin (pseudo-coloured in the image). Cells display a variety of different actin-based structures including stress fibres, lamellipodia and filopodia. These structures are dynamic, enabling changes to cellular morphology and behaviour. Images were acquired using a Zeiss LSM 880 Airyscan microscope. See article by L. E. Young et al. (jcs220814).

FIRST PERSON

First person – Ahmed Elbediwy
jcs226845

First person – Kaiyuan Wu
jcs226548

First person – Yihua Wang
jcs226407

First person – Sei Yoshida
jcs226373

CELL SCIENTISTS TO WATCH

Cell Scientist to Watch – Tobias Zech
jcs227223

CELL SCIENCE AT A GLANCE

Functions of actin in mouse oocytes at a glance
Uraji, J., Scheffler, K. and Schuh, M.
jcs218099

REVIEW

N ϵ -lysine acetylation in the endoplasmic reticulum – a novel cellular mechanism that regulates proteostasis and autophagy
Farrugia, M. A. and Puglielli, L.
jcs221747

SHORT REPORT

Enigma proteins regulate YAP mechanotransduction
Elbediwy, A., Vanyai, H., Diaz-de-la-Loza, M.-D.-C., Frith, D., Snijders, A. P. and Thompson, B. J.
jcs221788

RESEARCH ARTICLES

Mechanically stimulated ATP release from mammalian cells: systematic review and meta-analysis
Mikolajewicz, N., Mohammed, A., Morris, M. and Komarova, S. V.
jcs223354

The RHEB–mTOR axis regulates expression of *Tf2* transposons in fission yeast
Nakase, Y. and Matsumoto, T.
jcs221457

The AAA ATPase Afg1 preserves mitochondrial fidelity and cellular health by maintaining mitochondrial matrix proteostasis
Germany, E. M., Zahayko, N., Huebsch, M. L., Fox, J. L., Prahlad, V. and Khalimonchuk, O.
jcs219956

The topology of the lymphotoxin β receptor that accumulates upon endolysosomal dysfunction dictates the NF- κ B signaling outcome

Banach-Orłowska, M., Jastrzębski, K., Cendrowski, J., Maksymowicz, M., Wojciechowska, K., Korostyński, M., Moreau, D., Gruenberg, J. and Miaczynska, M.
jcs218883

LCP1 preferentially binds clasped α M β 2 integrin and attenuates leukocyte adhesion under flow

Tseng, H.-Y., Samarelli, A. V., Kammerer, P., Scholze, S., Ziegler, T., Immler, R., Zent, R., Sperandio, M., Sanders, C. R., Fässler, R. and Böttcher, R. T.
jcs218214

Lipid bilayer stress-activated IRE-1 modulates autophagy during endoplasmic reticulum stress

Koh, J. H., Wang, L., Beaudoin-Chabot, C. and Thibault, G.
jcs217992

Fibronectin regulates growth factor signaling and cell differentiation in primary lens cells

VanSlyke, J. K., Boswell, B. A. and Musil, L. S.
jcs217240

GCN5L1 interacts with α TAT1 and RanBP2 to regulate hepatic α -tubulin acetylation and lysosome trafficking

Wu, K., Wang, L., Chen, Y., Pirooznia, M., Singh, K., Wälde, S., Kehlenbach, R. H., Scott, I., Gucek, M. and Sack, M. N.
jcs221036

Constitutive P2Y₂ receptor activity regulates basal lipolysis in human adipocytes

Ali, S. B., Turner, J. J. O. and Fountain, S. J.
jcs221994

Axonal degeneration induced by glutamate excitotoxicity is mediated by necroptosis

Hernández, D. E., Salvadores, N. A., Moya-Alvarado, G., Catalán, R. J., Bronfman, F. C. and Court, F. A.
jcs214684

Nuclear entry and export of FIH are mediated by HIF1 α and exportin1, respectively

Wang, Y., Zhong, S., Schofield, C. J., Ratcliffe, P. J. and Lu, X.
jcs219782

Dorsal ruffles enhance activation of Akt by growth factors

Yoshida, S., Pacitto, R., Sesi, C., Kotula, L. and Swanson, J. A.
jcs220517