



Cover: Growth-arrested mammalian cells display reduced mitochondrial dynamics and a concomitant decrease in mitochondrial association with the endoplasmic reticulum. This de-tethering of these organelles ultimately causes reduced compartment-specific activity of mTORC1 complex, leading to polysomal retention and reduced export of miRNAs. The 3D rendering of mitochondrial structures from a proliferating HeLa cell (yet to reach growth arrest) shown here depicts the highly branched mitochondrial network in a gradient of dark pink to off-white according to individual strand lengths. The blue to green colour marks the degree of association of the mitochondria and endoplasmic reticulum at specific points. See article by S. Chatterjee et al. (jcs250241).

STICKY WICKETS

Corona XXVII – see rule #1

Mole

jcs257741

Corona XXVIII – the Rashomon gate

Mole

jcs258202

OBITUARY

Remembering Angelika Amon (1967–2020)

Hochwagen, A. and Berchowitz, L. E.

jcs257444

FIRST PERSON

First person – Patricia Joyce Brooks

jcs258004

First person – Carlos Martín-Rodríguez

jcs258012

First person – Matías Capella

jcs258020

CELL SCIENTISTS TO WATCH

Cell scientist to watch – Christine Faulkner

jcs256826

CELL SCIENCE AT A GLANCE

Tumour-directed microenvironment remodelling at a glance

Boyle, S. T., Johan, M. Z. and Samuel, M. S.

jcs247783

REVIEWS

The journey of Ca²⁺ through the cell – pulsing through the network of ER membrane contact sites

Cremer, T., Neefjes, J. and Berlin, I.

jcs249136

Notch in mechanotransduction – from molecular mechanosensitivity to tissue mechanostasis

Stassen, O. M. J. A., Ristori, T. and Sahlgren, C. M.

jcs250738

RESEARCH ARTICLES

Sec71 separates Golgi stacks in *Drosophila* S2 cells

Fujii, S., Kurokawa, K., Tago, T., Inaba, R., Takiguchi, A., Nakano, A., Satoh, T. and Satoh, A. K.

jcs245571

Mitochondria control mTORC1 activity-linked compartmentalization of eIF4E to regulate extracellular export of microRNAs

Chatterjee, S., Chakrabarty, Y., Banerjee, S., Ghosh, S. and Bhattacharyya, S. N.

jcs250241

A novel mitosis-specific Cep215 domain interacts with Cep192 and phosphorylated Aurora A for organization of spindle poles

Kuriyama, R. and Fisher, C. R.

jcs240267

Retromer retrieves the Wilson disease protein ATP7B from endolysosomes in a copper-dependent manner

Das, S., Maji, S., Ruturaj, Bhattacharya, I., Saha, T., Naskar, N. and Gupta, A.

jcs246819

Disrupting polycystin-2 EF hand Ca²⁺ affinity does not alter channel function or contribute to polycystic kidney disease

Vien, T. N., Ng, L. C. T., Smith, J. M., Dong, K., Krappitz, M., Gainullin, V. G., Fedeles, S., Harris, P. C., Somlo, S. and DeCaen, P. G.

jcs255562

EGFRvIII uses intrinsic and extrinsic mechanisms to reduce glioma adhesion and increase migration

Banisadr, A., Eick, M., Beri, P., Parisian, A. D., Yeoman, B., Placone, J. K., Engler, A. J. and Furnari, F.

jcs247189

TrkB deubiquitylation by USP8 regulates receptor levels and BDNF-dependent neuronal differentiation

Martín-Rodríguez, C., Song, M., Anta, B., González-Calvo, F. J., Deogracias, R., Jing, D., Lee, F. S. and Arevalo, J. C.

jcs247841

CD301 mediates fusion in IL-4-driven multinucleated giant cell formation

Brooks, P. J., Wang, Y., Magalhaes, M. A., Glogauer, M. and McCulloch, C. A.

jcs248864

ESCRT recruitment by the *S. cerevisiae* inner nuclear membrane protein Heh1 is regulated by Hub1-mediated alternative splicing

Capella, M., Martín Caballero, L., Pfander, B., Braun, S. and Jentsch, S.

jcs250688

The budding yeast Start repressor Whi7 differs in regulation from Whi5, emerging as a major cell cycle brake in response to stress

Méndez, E., Gomar-Alba, M., Bañó, M. C., Mendoza, M., Quilis, I. and Igual, J. C.

jcs251413

A piggybacking mechanism enables peroxisomal localization of the glyoxylate cycle enzyme Mdh2 in yeast

Gabay-Maskit, S., Cruz-Zaragoza, L. D., Shai, N., Eisenstein, M., Bibi, C., Cohen, N., Hansen, T., Yifrach, E., Harpaz, N., Belostotsky, R., Schliebs, W., Schuldiner, M., Erdmann, R. and Zalckvar, E.

jcs244376

Sequential peripheral enrichment of H2A.Zac and H3K9me2 during trophoblast differentiation in human embryonic stem cells

Kafer, G. R., Tanaka, Y., Rillo-Bohn, R., Shimizu, E., Hasegawa, K. and Carlton, P. M.

jcs245282

TOOLS AND RESOURCES

Trackosome: a computational toolbox to study the spatiotemporal dynamics of centrosomes, nuclear envelope and cellular membrane
Castro, D., Nunes, V., Lima, J. T., Ferreira, J. G. and Aguiar, P.
jcs252254

CORRECTION

Correction: HECT E3 ubiquitin ligases – emerging insights into their biological roles and disease relevance

Wang, Y., Argiles-Castillo, D., Kane, E. I., Zhou, A. and Spratt, D. E.

jcs258087