



Cover: During the first meiotic division of a *Caenorhabditis elegans* primary spermatocyte, centralspindlin and contractile ring components accumulate at the equatorial cortex initiating contractile ring assembly prior to the segregation of homologous chromosomes. This image from a time-lapse sequence captures the gonad of a *C. elegans* hermaphrodite expressing GFP-tagged anillin (green) and mCherry-tagged histone H2B (magenta) at the fourth larval stage. The primary spermatocyte situated at the proximal end of the rachis has not yet entered anaphase I, yet anillin accumulates at the equatorial cortex. See article by X. Wang et al. (jcs238543).

FIRST PERSON

First person – Miguel Burgos
jcs258444

First person – Jennifer Potter-Birriel
jcs258442

First person – Xiangchuan Wang
jcs258445

First person – Anthony Ravussin
jcs258441

First person – Fatemeh Mazloumi Gavvani
jcs258440

CELL SCIENTISTS TO WATCH

Cell scientist to watch – Janet Iwasa
jcs257030

REVIEWS

Trio family proteins as regulators of cell migration and morphogenesis in development and disease – mechanisms and cellular contexts
Bircher, J. E. and Koleske, A. J.
jcs248393

Fueling the cytoskeleton – links between cell metabolism and actin remodeling
DeWane, G., Salvi, A. M. and DeMali, K. A.
jcs248385

Emerging functions of cytoskeletal proteins in immune diseases
Tur-Gracia, S. and Martinez-Quiles, N.
jcs253534

RESEARCH ARTICLES

Long-term segmentation-free assessment of head–flagellum movement and intracellular calcium in swimming human sperm
Corkidi, G., Hernández-Herrera, P., Montoya, F., Gadélha, H. and Darszon, A.
jcs250654

Ca²⁺ elevations disrupt interactions between intraflagellar transport and the flagella membrane in *Chlamydomonas*
Fort, C., Collingridge, P., Brownlee, C. and Wheeler, G.
jcs253492

Identification of mutants with increased variation in cell size at onset of mitosis in fission yeast
Scotchman, E., Kume, K., Navarro, F. J. and Nurse, P.
jcs251769

A region of SLBP outside the mRNA-processing domain is essential for deposition of histone mRNA into the *Drosophila* egg
Potter-Birriel, J. M., Gonsalvez, G. B. and Marzluff, W. F.
jcs251728

The p.E152K-STIM1 mutation deregulates Ca²⁺ signaling contributing to chronic pancreatitis

Burgos, M., Philippe, R., Antigny, F., Buscaglia, P., Masson, E., Mukherjee, S., Dubar, P., Le Maréchal, C., Campeotto, F., Lebonvallet, N., Frieden, M., Llopis, J., Domingo, B., Stathopoulos, P. B., Ikura, M., Brooks, W., Guida, W., Chen, J.-M., Ferec, C., Capiod, T. and Mignen, O.
jcs244012

The phosphatidylinositol 3-phosphate-binding protein SNX4 controls ATG9A recycling and autophagy

Ravussin, A., Brech, A., Tooze, S. A. and Stenmark, H.
jcs250670

Nuclear upregulation of class I phosphoinositide 3-kinase p110 β correlates with high 47S rRNA levels in cancer cells

Mazloumi Gavvani, F., Karlsson, T., Tangen, I. L., Morovicz, A. P., Arnesen, V. S., Turcu, D. C., Ninzima, S., Spang, K., Krakstad, C., Guillermet-Guibert, J. and Lewis, A. E.
jcs246090

Extracellular MIF, but not its homologue D-DT, promotes fibroblast motility independently of its receptor complex CD74/CD44

Szczeńniak, P., Henke, T., Fröhlich, S., Plessmann, U., Urlaub, H., Leng, L., Bucala, R., Grosse, R., Meinhardt, A. and Klug, J.
jcs217356

L-selectin regulates human neutrophil transendothelial migration

Rahman, I., Collado Sánchez, A., Davies, J., Rzeniewicz, K., Abukszem, S., Joachim, J., Hoskins Green, H. L., Killock, D., Sanz, M. J., Charras, G., Parsons, M. and Ivetic, A.
jcs250340

Poly(ADP-ribosyl)ation temporally confines SUMO-dependent ataxin-3 recruitment to control DNA double-strand break repair

Pfeiffer, A., Herzog, L. K., Luijsterburg, M. S., Shah, R. G., Rother, M. B., Stoy, H., Kühbacher, U., van Attikum, H., Shah, G. M. and Dantuma, N. P.
jcs247809

Cortical recruitment of centralspindlin and RhoA effectors during meiosis I of *Caenorhabditis elegans* primary spermatocytes

Wang, X., Zhang, D., Zheng, C., Wu, S., Glotzer, M. and Tse, Y. C.
jcs238543

Cyclophilin A is a mitochondrial factor that forms complexes with p23 – correlative evidence for an anti-apoptotic action

Daneri-Becerra, C., Valeiras, B., Gallo, L. I., Lagadari, M. and Galigniana, M. D.
jcs253401

AMPK signaling mediates synphilin-1-induced hyperphagia and obesity in *Drosophila*

Liu, J., Wang, X., Ma, R., Li, T., Guo, G., Ning, B., Moran, T. H. and Smith, W. W.
jcs247742

Protein kinase C α regulates the nucleocytoplasmic shuttling of KRIT1

De Luca, E., Perrelli, A., Swamy, H., Nitti, M., Passalacqua, M., Furfaro, A. L., Salzano, A. M., Scaloni, A., Glading, A. J. and Retta, S. F.

jcs250217

BMP4 activates the Wnt–*Lin28A*–*Blimp1*–Wnt pathway to promote primordial germ cell formation via altering H3K4me2

Zuo, Q., Jin, K., Wang, M., Zhang, Y., Chen, G. and Li, B.

jcs249375

The 20S proteasome activator PA28 γ controls the compaction of chromatin

Fesquet, D., Lières, D., Grimaud, C., Viganò, C., Méchali, F., Boulon, S., Coux, O., Bonne-Andrea, C. and Baldin, V.

jcs257717

Defining endogenous TACC3–chTOG–clathrin–GTSE1 interactions at the mitotic spindle using induced relocalization

Ryan, E. L., Shelford, J., Massam-Wu, T., Bayliss, R. and Royle, S. J.

jcs255794