



Cover: Tubulin post-translational modifications in cell migration. The structured illumination microscopy image shows migrating astrocytes stained for tubulin (magenta), acetylated tubulin (cyan) and detyrosinated tubulin (yellow); the nucleus (grey) was stained using ProLong gold with DAPI. See article by B. Bance et al. (jcs225805).

FIRST PERSON

First person – Bertille Bance and Shailaja Seetharaman
jcs231936

First person – Ioanna-Maria Gkotinakou
jcs231191

First person – Norman R. Groves
jcs231944

First person – Juan Tao
jcs231951

CELL SCIENTISTS TO WATCH

Interview with 2019 Hooke medal winner Eugenia Piddini
jcs231803

Cell scientist to watch – Pleasantine Mill
jcs231381

CELL SCIENCE AT A GLANCE

Survivin at a glance
Wheatley, S. P. and Altieri, D. C.
jcs223826

REVIEW

Bacterial mechanosensing: the force will be with you, always
Gordon, V. D. and Wang, L.
jcs227694

SHORT REPORT

Microtubule acetylation but not detyrosination promotes focal adhesion dynamics and astrocyte migration
Bance, B., Seetharaman, S., Leduc, C., Boëda, B. and Etienne-Manneville, S.
jcs225805

RESEARCH ARTICLES

Phosphorylation at distinct subcellular locations underlies specificity in mTORC2-mediated activation of SGK1 and Akt
Gleason, C. E., Oses-Prieto, J. A., Li, K. H., Saha, B., Situ, G., Burlingame, A. L. and Pearce, D.
jcs224931

ERK1/2 phosphorylates HIF-2 α and regulates its activity by controlling its CRM1-dependent nuclear shuttling
Gkotinakou, I.-M., Befani, C., Simos, G. and Liakos, P.
jcs225698

DSS-induced damage to basement membranes is repaired by matrix replacement and crosslinking
Howard, A. M., LaFever, K. S., Fenix, A. M., Scurr, C. R., Lau, K. S., Burnette, D. T., Bhave, G., Ferrell, N. and Page-McCaw, A.
jcs226860

NH_X-type Na⁺(K⁺)/H⁺ antiporters are required for TGN/EE trafficking and endosomal ion homeostasis in *Arabidopsis thaliana*

Dragwidge, J. M., Scholl, S., Schumacher, K. and Gendall, A. R.
jcs226472

Distinct functions of a cGMP-dependent protein kinase in nerve terminal growth and synaptic vesicle cycling

Dason, J. S., Allen, A. M., Vasquez, O. E. and Sokolowski, M. B.
jcs227165

VAPB depletion alters neuritogenesis and phosphoinositide balance in motoneuron-like cells: relevance to VAPB-linked amyotrophic lateral sclerosis

Genevini, P., Colombo, M. N., Venditti, R., Marcuzzo, S., Colombo, S. F., Bernasconi, P., De Matteis, M. A., Borgese, N. and Navone, F.
jcs220061

Import of extracellular ATP in yeast and man modulates AMPK and TORC1 signalling

Forte, G. M., Davie, E., Lie, S., Franz-Wachtel, M., Ovens, A. J., Wang, T., Oakhill, J. S., Maček, B., Hagan, I. M. and Petersen, J.
jcs223925

Organization and function of tension-dependent complexes at adherens junctions

Rauskolb, C., Cervantes, E., Madere, F. and Irvine, K. D.
jcs224063

SUMOylation of the nuclear pore complex basket is involved in sensing cellular stresses

Folz, H., Niño, C. A., Taranum, S., Caesar, S., Latta, L., Waharte, F., Salamero, J., Schlenstedt, G. and Dargemont, C.
jcs224279

Drosophila Ptp4E regulates vesicular packaging for monoamine-neuropeptide co-transmission

Tao, J., Bulgari, D., Berkhoudt, D. A., Calderon, M. J., Watkins, S. C., Fonseca Velez, H. J., Sabeva, N., Deitcher, D. L. and Levitan, E. S.
jcs224568

TMEM30A deficiency in endothelial cells impairs cell proliferation and angiogenesis

Zhang, S., Liu, W., Yang, Y., Sun, K., Li, S., Xu, H., Yang, M., Zhang, L. and Zhu, X.
jcs225052

NIK–IKK complex interaction controls NF- κ B-dependent inflammatory activation of endothelium in response to LT β R ligation

Kucharzewska, P., Maracle, C. X., Jeucken, K. C. M., van Hamburg, J. P., Israelsson, E., Furber, M., Tas, S. W. and Olsson, H. K.
jcs225615

A nuclear localization signal targets tail-anchored membrane proteins to the inner nuclear envelope in plants
Groves, N. R., McKenna, J. F., Evans, D. E., Graumann, K. and Meier, I.
jcs226134

Talin-mediated force transmission and talin rod domain unfolding independently regulate adhesion signaling
Rahikainen, R., Öhman, T., Turkki, P., Varjosalo, M. and Hytönen, V. P.
jcs226514