



**Cover:** An image of HeLa cell plated on the substrate coated by an animal lectin, galectin-8. F-actin is labelled in green and myosin-IIA in magenta. Galectin-8 promotes the formation of numerous filopodia and lamellipodia in adherent cells, but not the actomyosin bundles usually found in cells spreading on substrates coated by fibronectin. See article by W. Li et al. (jcs252221).

### STICKY WICKET

Corona XXXV – the year of living virtually

#### Mole

jcs258692

### FIRST PERSON

First person – Aleena Arakaki

jcs258754

First person – Kara Stark

jcs258752

First person – Wenhong Li

jcs258682

First person – Mariana Castro Dias

jcs258753

First person – Fumiya Okawa, Yutaro Hama and Sidi Zhang

jcs258751

First person – Yukako Nishimura

jcs258593

### CELL SCIENTISTS TO WATCH

Cell scientist to watch – Julia Cordero

jcs258668

### REVIEWS

CRISPR-Cas tools to study gene function in cytokinesis

**Husser, M. C., Skaik, N., Martin, V. J. J. and Piekny, A.**

jcs254409

The role of nuclear  $Ca^{2+}$  in maintaining neuronal homeostasis and brain health

**Mozolewski, P., Jeziorek, M., Schuster, C. M., Bading, H., Frost, B. and Dobrowolski, R.**

jcs254904

Emerging evidence for kindlin oligomerization and its role in regulating kindlin function

**Bu, W., Levitskaya, Z., Tan, S.-M. and Gao, Y.-G.**

jcs256115

### RESEARCH ARTICLES

Precise levels of the *Drosophila* adaptor protein Dreadlocks maintain the size and stability of germline ring canals

**Stark, K., Crowe, O. and Lewellyn, L.**

jcs254730

*De novo* formation of early endosomes during Rab5-to-Rab7a transition

**Skjeldal, F. M., Haugen, L. H., Mateus, D., Frei, D. M., Rødseth, A. V., Hu, X. and Bakke, O.**

jcs254185

Differential cellular responses to adhesive interactions with galectin-8- and fibronectin-coated substrates

**Li, W., Sancho, A., Chung, W.-L., Vinik, Y., Groll, J., Zick, Y., Medalia, O., Bershadsky, A. D. and Geiger, B.**

jcs252221

Ribosome quality control activity potentiates vaccinia virus protein synthesis during infection

**Sundaramoorthy, E., Ryan, A. P., Fulzele, A., Leonard, M., Daugherty, M. D. and Bennett, E. J.**

jcs257188

Evolution and insights into the structure and function of the DedA superfamily containing TMEM41B and VMP1

**Okawa, F., Hama, Y., Zhang, S., Morishita, H., Yamamoto, H., Levine, T. P. and Mizushima, N.**

jcs255877

Brain endothelial tricellular junctions as novel sites for T cell diapedesis across the blood–brain barrier

**Castro Dias, M., Odriozola Quesada, A., Soldati, S., Bösch, F., Gruber, I., Hildbrand, T., Sönmez, D., Khire, T., Witz, G., McGrath, J. L., Piontek, J., Kondoh, M., Deutsch, U., Zuber, B. and Engelhardt, B.**

jcs253880

The formin inhibitor SMIFH2 inhibits members of the myosin superfamily

**Nishimura, Y., Shi, S., Zhang, F., Liu, R., Takagi, Y., Bershadsky, A. D., Viasnoff, V. and Sellers J. R.**

jcs253708

AKR1B10 negatively regulates autophagy through reducing GAPDH upon glucose starvation in colon cancer

**Li, W., Liu, C., Huang, Z., Shi, L., Zhong, C., Zhou, W., Meng, P., Li, Z., Wang, S., Luo, F., Yan, J. and Wu, T.**

jcs255273

$\alpha$ -Arrestin ARRDC3 tumor suppressor function is linked to GPCR-induced TAZ activation and breast cancer metastasis

**Arakaki, A. K. S., Pan, W.-A., Wedegaertner, H., Roca-Mercado, I., Chinn, L., Gujral, T. S. and Trejo, J.A.**

jcs254888

Tyrosine sulfation and O-glycosylation of chemoattractant receptor GPR15 differentially regulate interaction with GPR15L

**Okamoto, Y. and Shikano, S.**

jcs247833

Identification of a novel Bax–Cdk1 signalling complex that links activation of the mitotic checkpoint to apoptosis

**Darweesh, O., Al-Shehri, E., Falquez, H., Lauterwasser, J., Edlich, F. and Patel, R.**

jcs244152

### TOOLS AND RESOURCES

A robust and flexible CRISPR/Cas9-based system for neutrophil-specific gene inactivation in zebrafish

**Wang, Y., Hsu, A. Y., Walton, E. M., Park, S. J., Syahirah, R., Wang, T., Zhou, W., Ding, C., Lemke, A. P., Zhang, G.J., Tobin, D. M. and Deng, Q.**

jcs258574