



**Cover:** A multiciliated cell from the *Xenopus* epidermis is shown, NME5–GFP marks the axonemes (green) and Clamp–RFP marks the axoneme tips (red). Membrane-localised BFP provides contrast. In this issue, Tu et al. report an *in vivo* protein localization screen in multiciliated cells that reveals a wide range of novel localization patterns in these cells and provides new insights into the links between cilia and the actin cytoskeleton. (Photo Credit: Yun Ma). See article by F. Tu et al. (jcs206565).

## STICKY WICKET

Raining sideways I  
**Mole**  
jcs214387

## FIRST PERSON

First person – Zhiyi Lv  
jcs215699

First person – Prajakta Gosavi  
jcs215640

First person – Justyna Meissner  
jcs215624

First person – Sandra Vidak  
jcs215632

First person – Guillaume Hatte  
jcs215608

## REVIEWS

Image co-localization – co-occurrence versus correlation  
**Aaron, J. S., Taylor, A. B. and Chew, T.-L.**  
jcs211847

From the unfolded protein response to metabolic diseases – lipids under the spotlight  
**Ho, N., Xu, C. and Thibault, G.**  
jcs199307

Recent insights into the cellular and molecular determinants of aging  
**Ruan, L., Zhang, X. and Li, R.**  
jcs210831

Mitotic spindles revisited – new insights from 3D electron microscopy  
**Müller-Reichert, T., Kiewisz, R. and Redemann, S.**  
jcs211383

## SHORT REPORTS

Yeast cells contain a heterogeneous population of peroxisomes that segregate asymmetrically during cell division  
**Kumar, S., de Boer, R. and van der Klei, I. J.**  
jcs207522

The ARF guanine nucleotide exchange factor GBF1 is targeted to Golgi membranes through a PIP-binding domain  
**Meissner, J. M., Bhatt, J. M., Lee, E., Styers, M. L., Ivanova, A. A., Kahn, R. A. and Sztul, E.**  
jcs210245

F-box proteins Pof3 and Pof1 regulate Wee1 degradation and mitotic entry in fission yeast  
**Qiu, C., Yi, Y.-yuan, Lucena, R., Wu, M.-juan, Sun, J.-hao, Wang, X., Jin, Q.-wen and Wang, Y.**  
jcs202895

Protein localization screening *in vivo* reveals novel regulators of multiciliated cell development and function  
**Tu, F., Sedzinski, J., Ma, Y., Marcotte, E. M. and Wallingford, J. B.**  
jcs206565

## RESEARCH ARTICLES

Calcium signaling mediates five types of cell morphological changes to form neural rosettes  
**Hříbková, H., Grabiec, M., Klemová, D., Slaninová, I. and Sun, Y.-M.**  
jcs206896

The Golgi ribbon in mammalian cells negatively regulates autophagy by modulating mTOR activity  
**Gosavi, P., Houghton, F. J., McMillan, P. J., Hanssen, E. and Gleeson, P. A.**  
jcs211987

EFA6 proteins regulate lumen formation through  $\alpha$ -actinin 1  
**Milanini, J., Fayad, R., Partisani, M., Lecine, P., Borg, J.-P., Franco, M. and Luton, F.**  
jcs209361

Nucleoplasmic lamins define growth-regulating functions of lamina-associated polypeptide 2 $\alpha$  in progeria cells  
**Vidak, S., Georgiou, K., Fichtinger, P., Naetar, N., Dechat, T. and Foisner, R.**  
jcs208462

The tail domain of the *Aspergillus fumigatus* class V myosin MyoE orchestrates septal localization and hyphal growth  
**Renshaw, H., Vargas-Muñiz, J. M., Juvvadi, P. R., Richards, A. D., Waitt, G., Soderblom, E. J., Moseley, M. A. and Steinbach, W. J.**  
jcs205955

Non-equivalence of nuclear import among nuclei in multinucleated skeletal muscle cells  
**Cutler, A. A., Jackson, J. B., Corbett, A. H. and Pavlath, G. K.**  
jcs207670

Abscisic acid – an anti-angiogenic phytohormone that modulates the phenotypical plasticity of endothelial cells and macrophages  
**Chaour, J., Lee, S., Ravichandra, A. and Chaour, B.**  
jcs210492

MARCKS-related protein regulates cytoskeletal organization at cell–cell and cell–substrate contacts in epithelial cells  
**Van Itallie, C. M., Tietgens, A. J., Aponte, A., Gucek, M., Cartagena-Rivera, A. X., Chadwick, R. S. and Anderson, J. M.**  
jcs210237

Tight junctions negatively regulate mechanical forces applied to adherens junctions in vertebrate epithelial tissue  
**Hatte, G., Prigent, C. and Tassan, J.-P.**  
jcs208736

Blood vitronectin is a major activator of LIF and IL-6 in the brain through integrin–FAK and uPAR signaling  
**Keasey, M. P., Jia, C., Pimentel, L. F., Sante, R. R., Lovins, C. and Hagg, T.**  
jcs202580

Stress-activated MAPKs and CRM1 regulate the subcellular localization of Net1A to control cell motility and invasion  
**Ulu, A., Oh, W., Zuo, Y. and Frost, J. A.**  
jcs204644

BMSCs ameliorate septic coagulopathy by suppressing inflammation in cecal ligation and puncture-induced sepsis  
**Xu, S., Zhou, Z., Li, H., Liu, Z., Pan, X., Wang, F., Huang, Y., Li, X., Xiao, Y., Pan, J., Wang, C. and Li, D.**  
jcs211151

Rheb localized on the Golgi membrane activates lysosome-localized mTORC1 at the Golgi–lysosome contact site  
**Hao, F., Kondo, K., Itoh, T., Ikari, S., Nada, S., Okada, M. and Noda, T.**  
jcs208017

## TOOLS AND RESOURCES

A ‘molecular guillotine’ reveals the interphase function of Kinesin-5  
**Lv, Z., Rosenbaum, J., Aspelmeier, T. and Großhans, J.**  
jcs210583

## CORRECTIONS

Correction: Control of Cdc6 accumulation by Cdk1 and MAPK is essential for completion of oocyte meiotic divisions in *Xenopus* (doi:10.1242/jcs.166553)

**Daldello, E. M., Le, T., Poulhe, R., Jesus, C., Haccard, O. and Dupré, A.**  
jcs215293

Correction: Mind the (sr)GAP – roles of Slit–Robo GAPs in neurons, brains and beyond (doi: 10.1242/jcs.207456)

**Lucas, B. and Hardin, J.**  
jcs215392