



**Cover:** Microtubules are decorated with post-translational modifications. The image shows a *Drosophila* embryo stained with antibodies for acetylated (red) and tyrosinated (blue) microtubules. Neurons (green) are particularly enriched in acetylated microtubules. See article by B. V. Jenkins et al. (pp. 4120–4131).

### FIRST PERSON

- 4073** First person – Anne Rademacher
- 4075** First person – Zhen Zhang and Yen Wei Lim
- 4077** First person – Brian Jenkins

### CELL SCIENCE AT A GLANCE

- 4079** Targeting and translocation of proteins to the endoplasmic reticulum at a glance  
**Aviram, N. and Schuldiner, M.**

### REVIEW

- 4087** The EGFR odyssey – from activation to destruction in space and time  
**Bakker, J., Spits, M., Neefjes, J. and Berlin, I.**

### RESEARCH ARTICLES

- 4097** Dynamic changes in the interchromosomal interaction of early histone gene loci during development of sea urchin  
**Matsushita, M., Ochiai, H., Suzuki, K.-i. T., Hayashi, S., Yamamoto, T., Awazu, A. and Sakamoto, N.**
- 4108** Functional analyses of the CIF1–CIF2 complex in trypanosomes identify the structural motifs required for cytokinesis  
**Hu, H., Majneri, P., Li, D., Kurasawa, Y., An, T., Dong, G. and Li, Z.**
- 4120** Effects of mutating  $\alpha$ -tubulin lysine 40 on sensory dendrite development  
**Jenkins, B. V., Saunders, H. A. J., Record, H. L., Johnson-Schlitz, D. M. and Wildonger, J.**
- 4132** Giantin-knockout models reveal a feedback loop between Golgi function and glycosyltransferase expression  
**Stevenson, N. L., Bergen, D. J. M., Skinner, R. E. H., Kague, E., Martin-Silverstone, E., Robson Brown, K. A., Hammond, C. L. and Stephens, D. J.**
- 4144** Phosphorylation of the RNA-binding protein Zfs1 modulates sexual differentiation in fission yeast  
**Navarro, F. J., Chakravarty, P. and Nurse, P.**

- 4155** CREB3L1-mediated functional and structural adaptation of the secretory pathway in hormone-stimulated thyroid cells  
**García, I. A., Torres Demichelis, V., Viale, D. L., Di Giusto, P., Ezhova, Y., Polishchuk, R. S., Sampieri, L., Martinez, H., Sztul, E. and Alvarez, C.**
- 4168** RhoC regulates the actin remodeling required for phagosome formation during Fc $\gamma$ R-mediated phagocytosis  
**Egami, Y., Kawai, K. and Araki, N.**
- 4180** Quantitative analysis of multilayer organization of proteins and RNA in nuclear speckles at super resolution  
**Fei, J., Jadaliha, M., Harmon, T. S., Li, I. T. S., Hua, B., Hao, Q., Holehouse, A. S., Reyer, M., Sun, Q., Freier, S. M., Pappu, R. V., Prasanth, K. V. and Ha, T.**

### TOOLS AND RESOURCES

- 4193** *In situ* imaging of mitochondrial translation shows weak correlation with nucleoid DNA intensity and no suppression during mitosis  
**Estell, C., Stamatidou, E., El-Messeiry, S. and Hamilton, A.**
- 4200** ImaEdge – a platform for quantitative analysis of the spatiotemporal dynamics of cortical proteins during cell polarization  
**Zhang, Z., Lim, Y. W., Zhao, P., Kanchanawong, P. and Motegi, F.**
- 4213** Real-time observation of light-controlled transcription in living cells  
**Rademacher, A., Erdel, F., Trojanowski, J., Schumacher, S. and Rippe, K.**

### CORRECTION

- 4225** Correction: The *Drosophila* centriole – conversion of doublets into triplets within the stem cell niche (doi: 10.1242/jcs.172627)  
**Gottardo, M., Callaini, G. and Riparbelli, M. G.**