



**Cover:** Live cells of the green algae *P. margaritaceum* treated with the callose-deposition inhibitor Endosidin 7 (ES7) followed by sequential immunolabelling with the pectin cell-wall antibody (JIM5). ES7-treated cells first labelled with JIM5 (green). After ES7 removal, pectin cell walls were re-labelled with JIM5 (magenta). This sequential pectin labelling revealed some cells with irreversible cytokinesis defects and aberrant JIM5-pectin deposition in the isthmus zone (see non-separated cell in the centre) and some recovered cells showing the typical JIM5-negative isthmus band (see cells at bottom left), demonstrating an essential role for callose deposition during cytokinesis in *P. margaritaceum*. See article by D. J. Davis et al. (jcs249599).

### STICKY WICKET

Corona XVII – feeling pucky  
**Mole**  
jcs252130

Corona XVIII – words alone  
**Mole**  
jcs252908

### FIRST PERSON

First person – Destiny Davis  
jcs254649

First person – Aini Gusmira  
jcs254656

First person – Sampo Kukkurainen  
jcs254615

First person – Yutaka Takeda  
jcs254607

### OPINION

Molecular basis for KDEL-mediated retrieval of escaped ER-resident proteins – SWEET talking the COPs  
**Newstead, S. and Barr, F.**  
jcs250100

### REVIEW

Ras, PI3K and mTORC2 – three's a crowd?  
**Smith, S. F., Collins, S. E. and Charest, P. G.**  
jcs234930

### RESEARCH ARTICLES

Callose deposition is essential for the completion of cytokinesis in the unicellular alga *Penium margaritaceum*  
**Davis, D. J., Wang, M., Sørensen, I., Rose, J. K. C., Domozych, D. S. and Drakakaki, G.**  
jcs249599

Integration of JAK/STAT receptor–ligand trafficking, signalling and gene expression in *Drosophila melanogaster* cells  
**Moore, R., Vogt, K., Acosta-Martin, A. E., Shire, P., Zeidler, M. and Smythe, E.**  
jcs246199

Topical insulin application accelerates diabetic wound healing by promoting anti-inflammatory macrophage polarization  
**Yang, P., Wang, X., Wang, D., Shi, Y., Zhang, M., Yu, T., Liu, D., Gao, M., Zhang, X. and Liu, Y.**  
jcs235838

Cargo-mediated recruitment of the endocytic adaptor protein Sla1 in *S. cerevisiae*  
**Tolsma, T. O., Febvre, H. P., Olson, D. M. and Di Pietro, S. M.**  
jcs247684

Regulation of caveolae through cholesterol-depletion-dependent tubulation mediated by PACSIN2  
**Gusmira, A., Takemura, K., Lee, S. Y., Inaba, T., Hanawa-Suetsugu, K., Oono-Yakura, K., Yasuhara, K., Kitao, A. and Suetsugu, S.**  
jcs246785

The F1 loop of the talin head domain acts as a gatekeeper in integrin activation and clustering  
**Kukkurainen, S., Azizi, L., Zhang, P., Jacquier, M.-C., Baikoghli, M., von Essen, M., Tuukkanen, A., Laitaoja, M., Liu, X., Rahikainen, R., Orłowski, A., Jänis, J., Määttä, J. A. E., Varjosalo, M., Vattulainen, I., Róg, T., Svergun, D., Cheng, R. H., Wu, J., Hytönen, V. P. and Wehrle-Haller, B.**  
jcs239202

Invariant chain regulates endosomal fusion and maturation through an interaction with the SNARE Vti1b  
**Margiotta, A., Frei, D. M., Sendstad, I. H., Janssen, L., Neeffes, J. and Bakke, O.**  
jcs244624

Amalgam regulates the receptor tyrosine kinase pathway through Sprouty in glial cell development in the *Drosophila* larval brain  
**Ariss, M. M., Terry, A. R., Islam, A. B. M. M. K., Hay, N. and Frolov, M. V.**  
jcs250837

The centriole protein CEP76 negatively regulates PLK1 activity in the cytoplasm for proper mitotic progression  
**Takeda, Y., Yamazaki, K., Hashimoto, K., Watanabe, K., Chinen, T. and Kitagawa, D.**  
jcs241281