



**Cover:** Inhibition of the ESCRT-III subunit Vps32 induces the accumulation of the G protein-coupled receptor Smoothed (Smo) and the activation of Hedgehog signaling. Shown here is a *Drosophila melanogaster* late third instar wing disc immunostained to show Smo (green) and Ci (red) expression when Vps32 is knocked down through RNA interference. (For details, see K. Jiang et al., jcs211367).

## EDITORIAL

2018 – Continuous publication and beyond

**Ahmad S. (Executive Editor)**

jcs214841

## FIRST PERSON

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jcs214221

First person – Alexander Buffone, Jr

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First person – Kengo Takahashi

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First person – Shweta Yadav

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First person – Kosuke Shiraishi

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First person – Avinash Persaud

jcs214239

## CELL SCIENTISTS TO WATCH

Cell scientist to watch–David Bryant

jcs213181

## MEETING REPORT

Meeting report – shining light on septins

**Caudron, F. and Yadav, S.**

jcs213702

## CELL SCIENCE AT A GLANCE

Tks adaptor proteins at a glance

jcs203661

## REVIEWS

Spatial effects – site-specific regulation of actin and microtubule organization by septin GTPases

**Spiliotis, E. T.**

jcs207555

Reconsidering an active role for G-actin in cytoskeletal regulation

**Skruber, K., Read, T.-A. and Vitriol, E. A.**

jcs203760

## SHORT REPORT

Steric hindrance in the upper 50 kDa domain of the motor Myo2p leads to cytokinesis defects in fission yeast

**Palani, S., Srinivasan, R., Zambon, P., Kamnev, A., Gayathri, P. and Balasubramanian, M. K.**

jcs205625

## RESEARCH ARTICLES

Migration against the direction of flow is LFA-1-dependent in human hematopoietic stem and progenitor cells

**Buffone, A., Jr, Anderson, N. R. and Hammer, D. A.**

jcs205575

Rap1B promotes VEGF-induced endothelial permeability and is required for dynamic regulation of the endothelial barrier

**Lakshmikanthan, S., Sobczak, M., Li Calzi, S., Shaw, L., Grant, M. B. and Chrzanowska-Wodnicka, M.**

jcs207605

PAWS1 controls cytoskeletal dynamics and cell migration through association with the SH3 adaptor CD2AP

**Cummins, T. D., Wu, K. Z. L., Bozatz, P., Dingwell, K. S., Macartney, T. J., Wood, N. T., Varghese, J., Gourlay, R., Campbell, D. G., Prescott, A., Griffis, E., Smith, J. C. and Sapkota, G. P.**

jcs202390

TGF- $\beta$  induces oncofetal fibronectin that, in turn, modulates TGF- $\beta$  superfamily signaling in endothelial cells

**Ventura, E., Weller, M., Macnair, W., Eschbach, K., Beisel, C., Cordazzo, C., Claassen, M., Zardi, L. and Burghardt, I.**

jcs209619

Yeast Hog1 proteins are sequestered in stress granules during high-temperature stress

**Shiraishi, K., Hioki, T., Habata, A., Yurimoto, H. and Sakai, Y.**

jcs209114

Glucose deprivation induces primary cilium formation through mTORC1 inactivation

**Takahashi, K., Nagai, T., Chiba, S., Nakayama, K. and Mizuno, K.**

jcs208769

The methyltransferase SET9 regulates TGFB1 activation of renal fibroblasts via interaction with SMAD3

**Shuttleworth, V. G., Gaughan, L., Nawafa, L., Mooney, C. A., Cobb, S. L., Sheerin, N. S. and Logan, I. R.**

jcs207761

NudE regulates dynein at kinetochores but is dispensable for other dynein functions in the *C. elegans* early embryo

**Simões, P. A., Celestino, R., Carvalho, A. X. and Gassmann, R.**

jcs212159

RDGB $\alpha$  localization and function at membrane contact sites is regulated by FFAT–VAP interactions

**Yadav, S., Thakur, R., Georgiev, P., Deivasigamani, S., Krishnan, H., Ratnaparkhi, G. and Raghu, P.**

jcs207985

Dynamins inhibitors block activation of mTORC1 by amino acids independently of dynamins

**Persaud, A., Cormerais, Y., Pouyssegur, J. and Rotin, D.**

jcs211755

An intracellular activation of Smoothed that is independent of Hedgehog stimulation in *Drosophila*

**Jiang, K., Liu, Y., Zhang, J. and Jia, J.**  
jcs211367

Two spatially distinct kinesin-14 proteins, Pkl1 and Klp2, generate collaborative inward forces against kinesin-5 Cut7 in *S. pombe*

**Yukawa, M., Yamada, Y., Yamauchi, T. and Toda, T.**  
jcs210740

A novel fluorescent reporter detects plastic remodeling of mitochondria–ER contact sites

**Yang, Z., Zhao, X., Xu, J., Shang, W. and Tong, C.**  
jcs208686

A self-inhibitory interaction within Nup155 and membrane binding are required for nuclear pore complex formation

**De Magistris, P., Tatarek-Nossol, M., Dewor, M. and Antonin, W.**  
jcs208538

Distinct roles for plasma membrane PtdIns(4)P and PtdIns(4,5)P<sub>2</sub> during receptor-mediated endocytosis in yeast

**Yamamoto, W., Wada, S., Nagano, M., Aoshima, K., Siekhaus, D. E., Toshima, J. Y. and Toshima, J.**  
jcs207696

A CK1 FRET biosensor reveals that DDX3X is an essential activator of CK1 $\epsilon$

**Dolde, C., Bischof, J., Grüter, S., Montada, A., Halekotte, J., Peifer, C., Kalbacher, H., Baumann, U., Knippschild, U. and Suter, B.**  
jcs207316

Restricted cell functions on micropillars are alleviated by surface-nanocoating with amino groups

**Moerke, C., Staehlke, S., Rebl, H., Finke, B. and Nebe, J. B.**  
jcs207001

Prolines in the  $\alpha$ -helix confer the structural flexibility and functional integrity of importin- $\beta$

**Kumeta, M., Konishi, H. A., Zhang, W., Sakagami, S. and Yoshimura, S. H.**  
jcs206326

Loss of ADAM9 expression impairs  $\beta$ 1 integrin endocytosis, focal adhesion formation and cancer cell migration

**Mygind, K. J., Schwarz, J., Sahgal, P., Ivaska, J. and Kveiborg, M.**  
jcs205393

## TOOLS AND RESOURCES

High-content tripartite split-GFP cell-based assays to screen for modulators of small GTPase activation

**Koraïchi, F., Gence, R., Bouchenot, C., Grosjean, S., Lajoie-Mazenc, I., Favre, G. and Cabantous, S.**  
jcs210419

## CORRECTION

Leucine-rich repeat-containing 8B protein is associated with the endoplasmic reticulum Ca<sup>2+</sup> leak in HEK293 cells (doi: 10.1242/jcs.203646)

**Ghosh, A., Khandelwal, N., Kumar, A. and Bera, A. K.**  
jcs213447