



**Cover:** The intracellular pathogen *Leishmania amazonensis* (red) invading a fibroblast through its flagellar end and fusing with host cell lysosomes (green) prior to complete parasite internalization. The accompanying paper show that these parasites subvert host cell lysosomes involved in the physiological process of plasma membrane repair to induce internalization in non-professional phagocytes. See article by V. S. Cavalcante-Costa et al. (jcs.226183).

## EDITORIAL

Thank you to our peer reviewers in 2018

**Way, M. (Editor-in-Chief) and Ahmad, S. (Executive Editor)**

jcs231480

## STICKY WICKET

Noir II – the art of murder

**Mole**

jcs230979

## FIRST PERSON

First person – Victor Cavalcante-Costa

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First person – Natania Casden

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First person – Fujian Lu

jcs231183

First person – Qiyu Wang

jcs231175

First person – Ralitza Staneva

jcs231449

## CELL SCIENCE AT A GLANCE

Dynein activators and adaptors at a glance

**Olenick, M. A. and Holzbaur, E. L. F.**

jcs227132

## REVIEW

Message in a vesicle – trans-kingdom intercommunication at the vector–host interface

**Chávez, A. S. O., O'Neal, A. J., Santambrogio, L., Kotsyfakis, M. and Pedra, J. H. F.**

jcs224212

## RESEARCH ARTICLES

VEGFR2 survival and mitotic signaling depends on joint activation of associated C3ar1/C5ar1 and IL-6R-gp130

**Hwang, M.-S., Strainic, M. G., Pohlmann, E., Kim, H., Pluskota, E., Ramirez-Bergeron, D. L., Plow, E. F. and Medof, M. E.**

jcs219352

Arp2/3-branched actin regulates microtubule acetylation levels and affects mitochondrial distribution

**Shi, P., Wang, Y., Huang, Y., Zhang, C., Li, Y., Liu, Y., Li, T., Wang, W., Liang, X. and Wu, C.**

jcs226506

PCNT is critical for the association and conversion of centrioles to centrosomes during mitosis

**Kim, J., Kim, J. and Rhee, K.**

jcs225789

PML is recruited to heterochromatin during S phase and represses DAXX-mediated histone H3.3 chromatin assembly

**Shastrula, P. K., Sierra, I., Deng, Z., Keeney, F., Hayden, J. E., Lieberman, P. M. and Janicki, S. M.**

jcs220970

*Leishmania amazonensis* hijacks host cell lysosomes involved in plasma membrane repair to induce invasion in fibroblasts

**Cavalcante-Costa, V. S., Costa-Reginaldo, M., Queiroz-Oliveira, T., Oliveira, A. C. S., Couto, N. F., dos Anjos, D. O., Lima-Santos, J., Andrade, L. O., Horta, M. F. and Castro-Gomes, T.**

jcs226183

An essential role for dNTP homeostasis following CDK-induced replication stress

**Pai, C.-C., Hsu, K.-F., Durley, S. C., Keszthelyi, A., Kearsey, S. E., Rallis, C., Folkes, L. K., Deegan, R., Wilkins, S. E., Pfister, S. X., De León, N., Schofield, C. J., Bähler, J., Carr, A. M. and Humphrey, T. C.**

jcs226969

Imaging elemental events of store-operated  $\text{Ca}^{2+}$  entry in invading cancer cells with plasmalemmal targeted sensors

**Lu, F., Sun, J., Zheng, Q., Li, J., Hu, Y., Yu, P., He, H., Zhao, Y., Wang, X., Yang, S. and Cheng, H.**

jcs224923

An alternative membrane topology permits lipid droplet localization of peroxisomal fatty acyl-CoA reductase 1

**Exner, T., Romero-Brey, I., Yifrach, E., Rivera-Monroy, J., Schrul, B., Zouboulis, C. C., Stremmel, W., Honsho, M., Bartenschlager, R., Zalckvar, E., Poppelreuther, M. and Füllekrug, J.**

jcs223016

Tau modulates Schwann cell proliferation, migration and differentiation following peripheral nerve injury

**Yi, S., Liu, Q., Wang, X., Qian, T., Wang, H., Zha, G., Yu, J., Wang, P., Gu, X., Chu, D. and Li, S.**

jcs222059

Phosphorylation of the Bruchpilot N-terminus in *Drosophila* unlocks axonal transport of active zone building blocks

**Driller, J. H., Lützkendorf, J., Depner, H., Siebert, M., Kuropka, B., Weise, C., Piao, C., Petzoldt, A. G., Lehmann, M., Stelzl, U., Zahedi, R., Sickmann, A., Freund, C., Sigrist, S. J. and Wahl, M. C.**

jcs225151

Deficiency of Fhl2 leads to delayed neuronal cell migration and premature astrocyte differentiation

**Kim, S. Y., Völkl, S., Ludwig, S., Schneider, H., Wixler, V. and Park, J.**

jcs228940

Cancer cells in the tumor core exhibit spatially coordinated migration patterns

**Staneva, R., El Marjou, F., Barbazan, J., Krndija, D., Richon, S., Clark, A. G. and Vignjevic, D. M.**

jcs220277

Polyubiquitylation of  $\alpha$ -tubulin at K304 is required for flagellar disassembly in *Chlamydomonas*

**Wang, Q., Peng, Z., Long, H., Deng, X. and Huang, K.**

jcs229047

## TOOLS AND RESOURCES

An approach for accelerated isolation of genetically manipulated cell clones with reduced clonal variability

**Casden, N. and Behar, O.**

jcs217661

CryoAPEX – an electron tomography tool for subcellular localization of membrane proteins

**Sengupta, R., Poderycki, M. J. and Mattoo, S.**

jcs222315

## CORRECTIONS

Correction: The PIKfyve complex regulates the early melanosome homeostasis required for physiological amyloid formation (doi:10.1242/jcs.229500)

**Bissig, C., Croisé, P., Heiligenstein, X., Hurbain, I., Lenk, G. M., Kaufman, E., Sannerud, R., Annaert, W., Meisler, M. H., Weisman, L. S., Raposo, G. and van Niel, G.**

jcs231746

Correction: The zinc-finger protein CLAMP promotes *gypsy* chromatin insulator function in *Drosophila* (doi:10.1242/jcs.226092)

**Bag, I., Dale, R. K., Palmer, C. and Lei, E. P.**

jcs231977