



**Cover:** Airyscan confocal image of a HeLa cell infected with *Shigella flexneri*, which are forming actin tails. Bacterial DNA is shown in orange, SEPT7 in green and F-actin in red. *Shigella* MreB helps to position IcsA to form actin tails (highlighted with a 'fire' look-up table to reflect signal intensity). Image taken by Ana Teresa López Jiménez. See article by Sina Krokowski et al. (jcs.226217).

## JCS PRIZE

2018 Winner: Samantha Stehbens

**Way, M. (Editor-in-Chief)**

jcs233403

## FIRST PERSON

First person – Anthony Tran

jcs232926

First person – Sina Krokowski

jcs233155

First person – Brian Spurlock

jcs232546

First person – Shalini Roy

jcs232553

First person – Paula Slater

jcs232538

## CELL SCIENTISTS TO WATCH

Cell scientist to watch – Julien Berro

jcs233296

## REVIEWS

Engineering the cellular mechanical microenvironment – from bulk mechanics to the nanoscale

**Matellan, C. and del Río Hernández, A. E.**

jcs229013

Role of septins in microbial infection

**Van Ngo, H. and Mostowy, S.**

jcs226266

## SHORT REPORTS

ArhGEF37 assists dynamin 2 during clathrin-mediated endocytosis

**Viplav, A., Saha, T., Huertas, J., Selenschik, P., Ebrahimkuty, M. P., Grill, D., Lehigh, J., Hentschel, A., Biasizzo, M., Mengoni, S., Ahrends, R., Gerke, V., Cojocar, V., Klingauf, J. and Galic, M.**

jcs226530

*Shigella* MreB promotes polar IcsA positioning for actin tail formation

**Krokowski, S., Atwal, S., Lobato-Márquez, D., Chastanet, A., Carballido-López, R., Salje, J. and Mostowy, S.**

jcs226217

Nucleotide exchange factor Rab3GEP requires DENN and non-DENN elements for activation and targeting of Rab27a

**Sanzà, P., Evans, R. D., Briggs, D. A., Cantero, M., Montoliu, L., Patel, S., Sviderskaya, E. V., Itzen, A., Figueiredo, A. C., Seabra, M. C. and Hume, A. N.**

jcs212035

## RESEARCH ARTICLES

The N-end rule pathway and Ubr1 enforce protein compartmentalization via P2-encoded cellular location signals

**Tran, A.**

jcs231662

Sexual dimorphism, estrous cycle and laterality determine the intrinsic and synaptic properties of medial amygdala neurons in rat

**Dalpian, F., Rasia-Filho, A. A. and Calcagnotto, M. E.**

jcs227793

Crosstalk of PD-1 signaling with the SIRT1/FOXO-1 axis during the progression of visceral leishmaniasis

**Roy, S., Saha, S., Gupta, P., Ukil, A. and Das, P. K.**

jcs226274

Evidence for a regulated Ca<sup>2+</sup> entry in proximal tubular cells and its implication in calcium stone formation

**Ibeh, C.-L., Yiu, A. J., Kanaras, Y. L., Paal, E., Birnbaumer, L., Jose, P. A. and Bandyopadhyay, B. C.**

jcs225268

XMAP215 promotes microtubule–F-actin interactions to regulate growth cone microtubules during axon guidance in *Xenopus laevis*

**Slater, P. G., Cammarata, G. M., Samuelson, A. G., Magee, A., Hu, Y. and Lowery, L. A.**

jcs224311

Cortical mitochondria regulate insulin secretion by local Ca<sup>2+</sup> buffering in rodent beta cells

**Griesche, N., Sanchez, G., Hermans, C. and Idevall-Hagren, O.**

jcs228544

## TOOLS AND RESOURCES

New quantitative approach reveals heterogeneity in mitochondrial structure–function relations in tumor-initiating cells

**Spurlock, B., Gupta, P., Basu, M. K., Mukherjee, A., Hjelmeland, A. B., Darley-Usmar, V., Parker, D., Foxall, M. E. and Mitra, K.**

jcs230755

## PUBLISHER'S NOTE

Expression of Concern: A Golgi-associated protein 4.1B variant is required for assimilation of proteins in the membrane (doi:10.1242/jcs.039644)

**Kang, Q., Wang, T., Zhang, H., Mohandas, N. and An, X.**

jcs233080

## CORRECTION

Correction: Mechanical signals regulate and activate SNAIL1 protein to control the fibrogenic response of cancer-associated fibroblasts (doi:10.1242/jcs.180539)

**Zhang, K., Grither, W. R., Van Hove, S., Biswas, H., Ponik, S. M., Eliceiri, K. W., Keely, P. J. and Longmore, G. D.**

jcs232348