

## NEWS

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#### Aster migration determines the length scale of nuclear separation in the *Drosophila* syncytial embryo

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Boris Baibakov, Nathan A. Boggs, Belinda Yauger, Galina Baibakov, and Jurrien Dean

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#### Nuclear-localized focal adhesion kinase regulates inflammatory VCAM-1 expression

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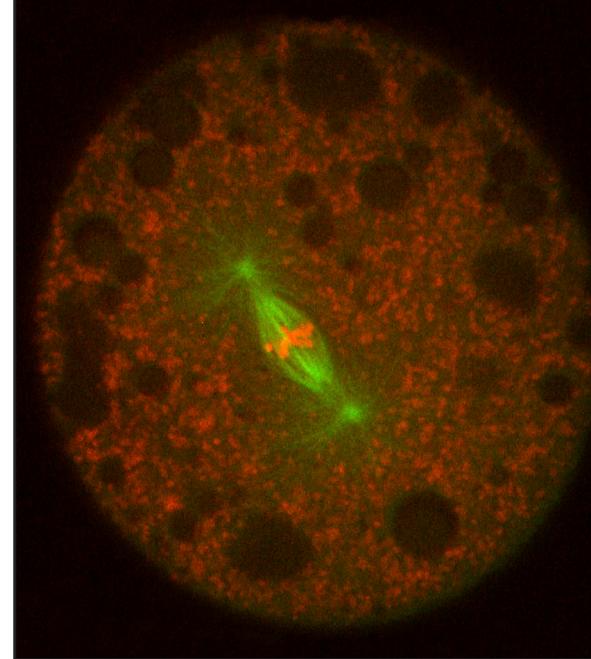
#### Nuclear envelope morphology constrains diffusion and promotes asymmetric protein segregation in closed mitosis

Barbara Boettcher, Tatiana T. Marquez-Lago, Mathias Bayer, Eric L. Weiss, and Yves Barral

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#### Arp2/3 complex-dependent actin networks constrain myosin II function in driving retrograde actin flow

Qing Yang, Xiao-Feng Zhang, Thomas D. Pollard, and Paul Forscher



### On the cover

Telley et al. develop a cell-free assay to determine how nuclei disperse through the syncitium of early *Drosophila* embryos. Condensed chromosomes (red) align on a metaphase spindle (green) in a droplet of cytoplasm extracted from a preblastoderm embryo. After anaphase, the newly formed nuclei are spatially separated by the migration of the microtubule asters through the cytoplasm. Image courtesy of Ivo A. Telley.

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Follistatin-mediated skeletal muscle hypertrophy is regulated by Smad3 and mTOR independently of myostatin

Catherine E. Winbanks, Kate L. Weeks, Rachel E. Thomson, Patricio V. Sepulveda, Claudia Beyer, Hongwei Qian, Justin L. Chen, James M. Allen, Graeme I. Lancaster, Mark A. Febbraio, Craig A. Harrison, Julie R. McMullen, Jeffrey S. Chamberlain, and Paul Gregorevic

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Sarcospan-dependent Akt activation is required for utrophin expression and muscle regeneration

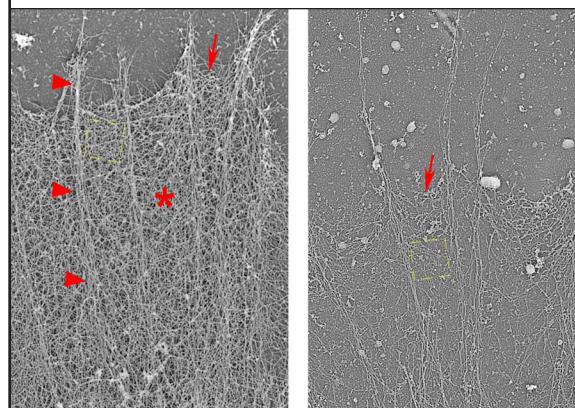
Jamie L. Marshall, Johan Holmberg, Eric Chou, Amber C. Ocampo, Jennifer Oh, Joy Lee, Angela K. Peter, Paul T. Martin, and Rachelle H. Crosbie-Watson

#### Corrections

**1029**

Cardiolipin defines the interactome of the major ADP/ATP carrier protein of the mitochondrial inner membrane

Steven M. Claypool, Yavuz Oktay, Pinmanee Boontheung, Joseph A. Loo, and Carla M. Koehler



The leading edge of a control neuronal growth cone (left) contains both filopodial actin bundles (arrowheads) and a dense meshwork called the actin veil (asterisk). Treatment with an inhibitor of the Arp2/3 actin-nucleation complex (right) reduces the density of the actin veil and retracts its outer edge (arrow).

Image © 2012 Yang et al.

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