

## NEWS

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  - A firmer understanding of muscle fibrosis  
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- Keith Burridge: Cultivating knowledge on Rho  
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- Axon degeneration: Molecular mechanisms of a self-destruction pathway**  
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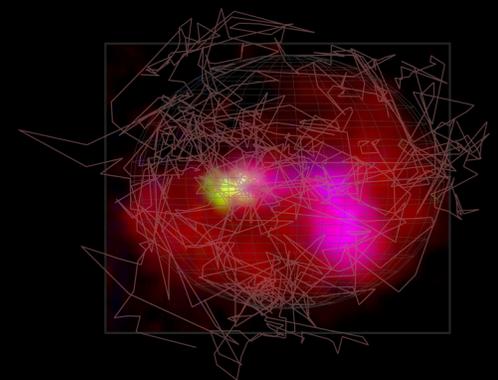
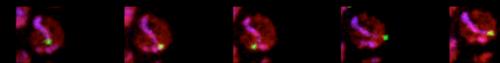
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Articles with related stories in the IN THIS ISSUE section have page numbers in **RED**; articles related to the IN FOCUS feature have page numbers in **BLUE**.



### On the cover

Wynne et al. visualize meiotic chromosome dynamics in live *C. elegans* animals. A time-lapse series (top) shows that movements of the X chromosomes (magenta) are mostly led by the pairing centers (green)—specialized chromosome regions that drive homologue pairing in early meiosis. Mapping the trajectories of multiple pairing centers on a representative nucleus (bottom) illustrates how their motions cover the nuclear envelope to help chromosomes find their homologous partner.

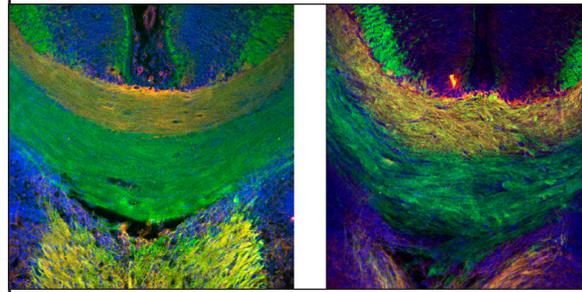
Image courtesy of David Wynne and Ofer Rog.

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- 115**  $\alpha$ -Actinin-4/FSGS1 is required for Arp2/3-dependent actin assembly at the adherens junction  
Vivian W. Tang and William M. Brieher
- 131** Structural specializations of  $\alpha_4\beta_7$ , an integrin that mediates rolling adhesion  
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- 147** A novel function for Cyclin A2: Control of cell invasion via RhoA signaling  
Nikola Arsic, Nawal Bendris, Marion Peter, Christina Begon-Pescia, Cosette Rebouissou, Gilles Gadéa, Nathalie Bouquier, Frédéric Bibeau, Bénédicte Lemmers, and Jean Marie Blanchard
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#### Corrections

- 177** EMILIN1- $\alpha_4/\alpha_9$  integrin interaction inhibits dermal fibroblast and keratinocyte proliferation  
Carla Danussi, Alessandra Petrucco, Bruna Wassermann, Eliana Pivetta, Teresa Maria Elisa Modica, Lisa Del Bel Belluz, Alfonso Colombatti, and Paola Spessotto



Zylbersztejn et al. reveal that the vesicular SNARE protein Synaptobrevin 2 is required for Semaphorin 3A-dependent axonal repulsion. Axons expressing the Semaphorin 3A co-receptor Neuropilin 1 (red) are arranged normally in a control mouse brain (left) but are disorganized in the absence of Synaptobrevin 2 (right). Image © 2012 Zylbersztejn et al. **See page 37.**