

NEWS

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- A kinase makes a connection

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p63 regulates *Satb1* to control tissue-specific chromatin remodeling during development of the epidermis

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MCPH1 regulates chromosome condensation and shaping as a composite modulator of condensin II

Daisuke Yamashita, Keishi Shintomi, Takao Ono, Ioannis Gavvovidis, Detlev Schindler, Heidemarie Neitzel, Marc Trimborn, and Tatsuya Hirano

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CENP-C recruits M18BP1 to centromeres to promote CENP-A chromatin assembly

Ben Moree, Corey B. Meyer, Colin J. Fuller, and Aaron F. Straight

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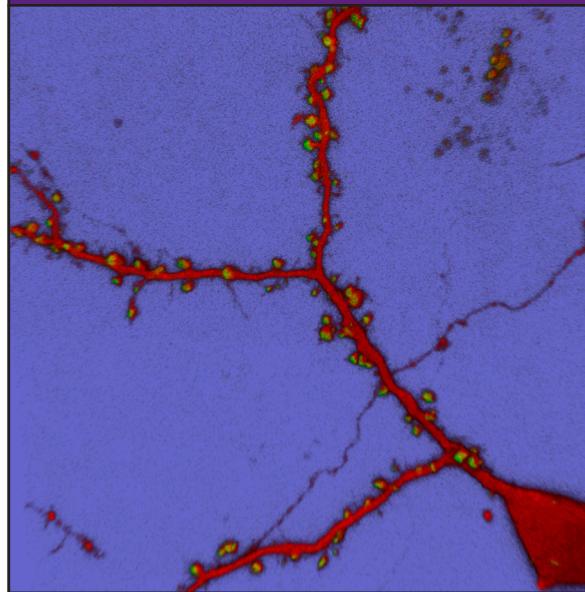
Arf6 regulates AP-1B-dependent sorting in polarized epithelial cells

Elina Shteyn, Lucy Pigati, and Heike Fölsch

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Targeting of the Arpc3 actin nucleation factor by miR-29a/b regulates dendritic spine morphology

Giordano Lippi, Joern R. Steinert, Emma L. Marczylo, Sabina D’Oro, Roberto Fiore, Ian D. Forsythe, Gerhard Schrott, Michele Zoli, Pierluigi Nicotera, and Kenneth W. Young



On the cover

A mouse hippocampal neuron (red) shows numerous mushroom-shaped dendritic spines enriched in PSD-95 (green) along its dendrites. Lippi et al. reveal that the morphology of these structures is modulated by the expression of miRNAs that target the Arpc3 actin-nucleation factor.

Image courtesy of Kenneth Young.

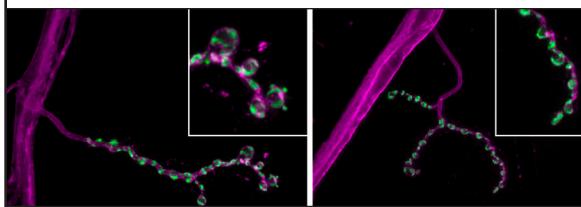
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GRK5 promotes F-actin bundling and targets bundles to membrane structures to control neuronal morphogenesis
Yuejun Chen, Feifei Wang, Hui Long, Ying Chen, Ziyang Wu, and Lan Ma

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S6 kinase localizes to the presynaptic active zone and functions with PDK1 to control synapse development
Ling Cheng, Cody Locke, and Graeme W. Davis



Cheng et al. reveal that S6 kinase localizes to presynaptic active zones, where it regulates synapse development. Although neuromuscular junctions from flies lacking S6 kinase (right) have similar numbers of presynaptic boutons (green) compared to wild-type flies (left), the boutons are smaller in size and have fewer sites of neurotransmitter release. Neuron membranes are labeled magenta.
Image © 2011 Cheng et al.

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