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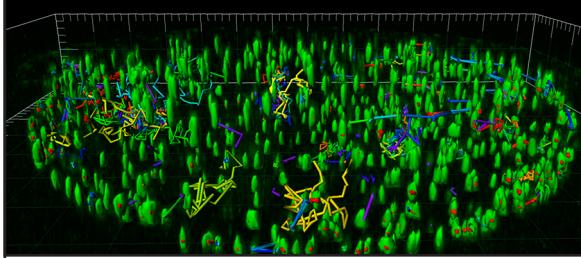
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- A biosensor of local kinesin activity reveals roles of PKC and EB1 in KIF17 activation
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On the cover

As depicted in this 3D reconstruction of a *Tetrahymena thermophila* cell, secretory granules known as mucocysts (green) move through the cytoplasm to dock at the plasma membrane. Colored lines show the trajectories of the mobile mucocyst pool. Briguglio et al. reveal that the sortilin family of lysosomal sorting receptors deliver non-aggregated cargo proteins to the granules.

Image © 2013 Briguglio et al., and prepared with the help of Christine Labno.
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The histone demethylase LSD1/KDM1A promotes the DNA damage response

Nima Mosammaparast, Haeyoung Kim, Benoit Laurent, Yu Zhao, Hui Jun Lim, Mona C. Majid, Sebastian Dango, Yuying Luo, Kristina Hempel, Mathew E. Sowa, Steven P. Gygi, Hanno Steen, J. Wade Harper, Bruce Yankner, and Yang Shi

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A novel chromatin tether domain controls topoisomerase II α dynamics and mitotic chromosome formation

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Opposing actions of septins and Sticky on Anillin promote the transition from contractile to midbody ring

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Rebecca A. Green, Jonathan R. Mayers, Shaohe Wang, Lindsay Lewellyn, Arshad Desai, Anjon Audhya, and Karen Oegema

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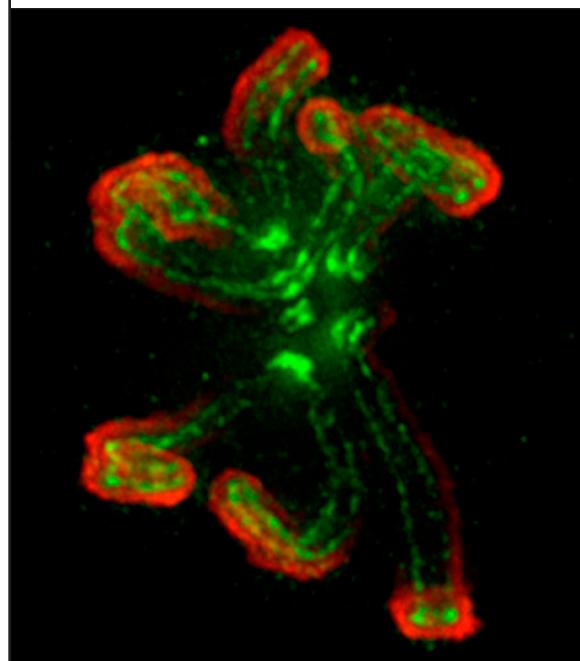
Synaptic NMDA receptor stimulation activates PP1 by inhibiting its phosphorylation by Cdk5

Hailong Hou, Lu Sun, Benjamin A. Siddoway, Ronald S. Petralia, Hongtian Yang, Hua Gu, Angus C. Nairn and Houhui Xia

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Lysosomal sorting receptors are essential for secretory granule biogenesis in *Tetrahymena*

Joseph S. Briguglio, Santosh Kumar, and Aaron P. Turkewitz



Lane et al. identify a chromatin tether domain in topoisomerase II α that mediates the enzyme's interaction with DNA and histone H3 and facilitates the formation of mitotic chromosomes. On the large mitotic chromosomes of *M. muntjac* cells, topoisomerase II α (green) shows little overlap with histone H3 phosphorylated on serine 28 (red), a modification that inhibits the interaction between the two proteins.
Image © 2013 Lane et al.
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