

NEWS

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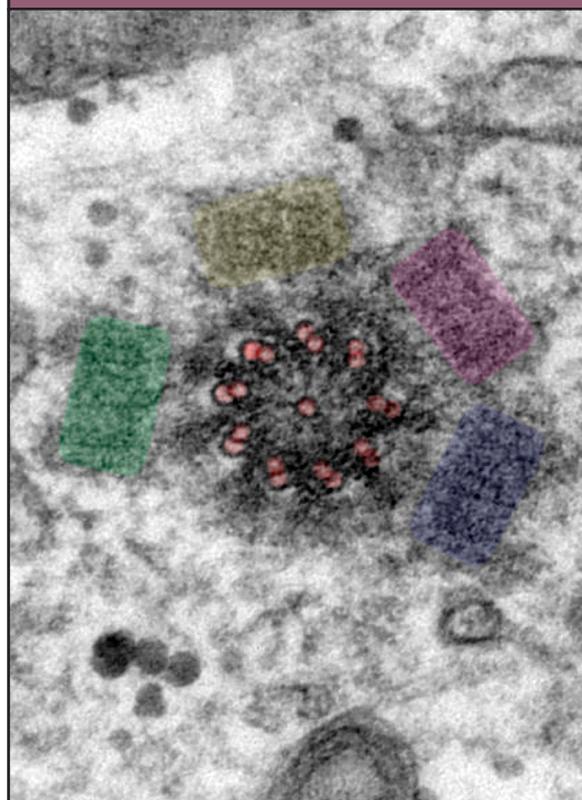
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- Redox amplification of apoptosis by caspase-dependent cleavage of glutaredoxin 1 and S-glutathionylation of Fas
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- Actin filament dynamics are dominated by rapid growth and severing activity in the *Arabidopsis* cortical array
- Christopher J. Staiger, Michael B. Sheahan, Parul Khurana, Xia Wang, David W. McCurdy, and Laurent Blanchoin



On the cover

The SCF ubiquitin ligase prevents centriole reduplication by targeting the kinase Plk4 for degradation. Expression of a non-degradable form of Plk4 allows a mother centriole (red) to assemble multiple daughters (colored blocks).

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281 Essential and unique roles of PIP5K- γ and - α in Fc γ receptor-mediated phagocytosis
Yuntao S. Mao, Masaki Yamaga, Xiaohui Zhu, Yongjie Wei, Hui-Qiao Sun, Jing Wang, Mia Yun, Yanfeng Wang, Gilbert Di Paolo, Michael Bennett, Ira Mellman, Charles S. Abrams, Pietro De Camilli, Christopher Y. Lu, and Helen L. Yin

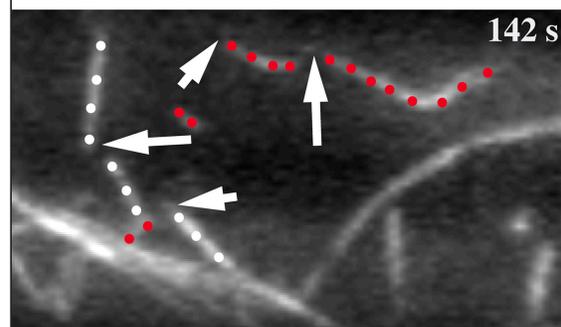
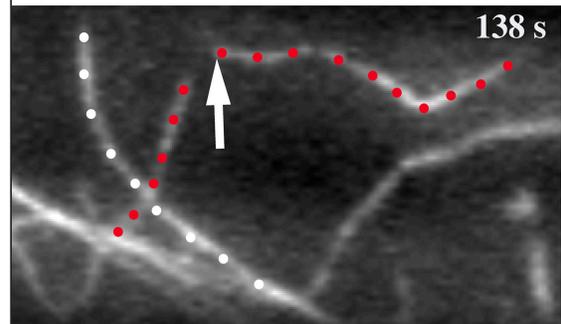
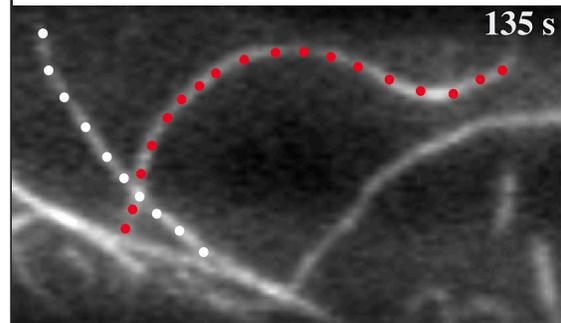
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323 Antagonism between Smad1 and Smad2 signaling determines the site of distal visceral endoderm formation in the mouse embryo
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Corrections

335 Coordinated control of self-renewal and differentiation of neural stem cells by Myc and the p19^{ARF}-p53 pathway
Motoshi Nagao, Kenneth Campbell, Kevin Burns, Chia-Yi Kuan, Andreas Trumpp, and Masato Nakafuku



Rather than “treadmilling” like animal cell actin filaments, Staiger et al. find that plant cell actin dynamics rely on rapid polymerization followed by severing events (arrows).
See page 269.