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- Cdc6 licenses tumor growth

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- Aurora A and Aurora B jointly coordinate chromosome segregation and anaphase microtubule dynamics
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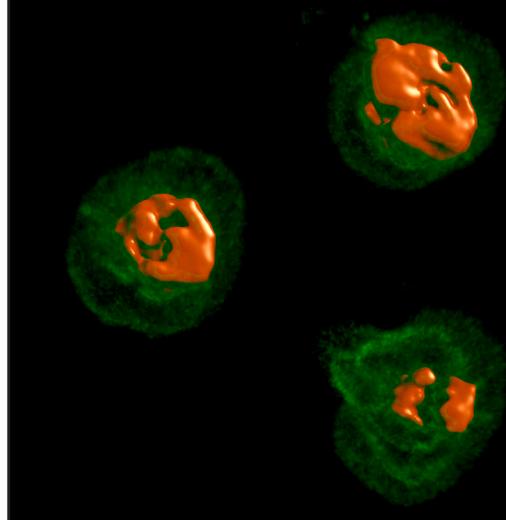
- Cdc6 expression represses E-cadherin transcription and activates adjacent replication origins
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- Reconstituted synaptotagmin I mediates vesicle docking, priming, and fusion
Zhao Wang, Huisheng Liu, Yiwen Gu, and Edwin R. Chapman



On the cover

A 3D-rendered time-lapse series shows the disassembly of the mitotic spindle (orange) after inactivation of the cyclin-dependent kinase Cdk1. Hégarat et al. reveal that spindle microtubules are stabilized in the absence of Aurora A and Aurora B activity, indicating that these two mitotic kinases regulate anaphase microtubule dynamics.

Image courtesy of Nadia Hégarat and Helfrid Hochegger.

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- 1171** Neuregulin/ErbB regulate neuromuscular junction development by phosphorylation of α -dystrobrevin

Nadine Schmidt, Mohammed Alkaaboune, Nadesan Gajendran, Isabel Martinez-Pena y Valenzuela, Sarah Wakefield, Raphael Thurnheer, and Hans Rudolf Brenner

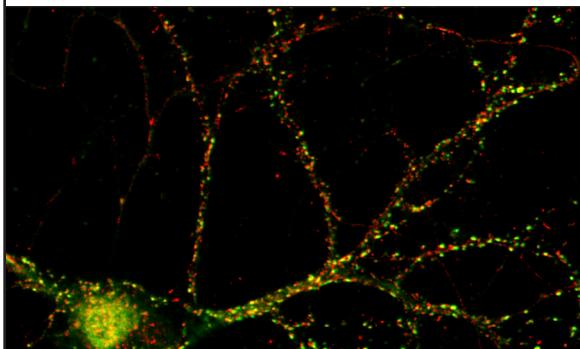
- 1185** Desmosomal cadherins utilize distinct kinesins for assembly into desmosomes

Oxana E. Nekrasova, Evangeline V. Amargo, William O. Smith, Jing Chen, Geri E. Kreitzer, and Kathleen J. Green

Corrections

- 1205** Impenetrable barriers or entry portals? The role of cell–cell adhesion during infection

Matteo Bonazzi and Pascale Cossart



Baez et al. identify S-foci, neuronal cytoplasmic granules containing the translational repressor Smaug1 (red), which control synapse formation by regulating the local translation of mRNAs encoding the kinase CaMKII α (green) and other proteins after NMDA receptor stimulation.

Image © 2011 Baez et al.

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