

NEWS

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- Visualization of dynein-dependent microtubule gliding at the cell cortex: implications for spindle positioning
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- Multispan mitochondrial outer membrane protein Ugo1 follows a unique Mim1-dependent import pathway
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- Rb and p130 control cell cycle gene silencing to maintain the postmitotic phenotype in cardiac myocytes
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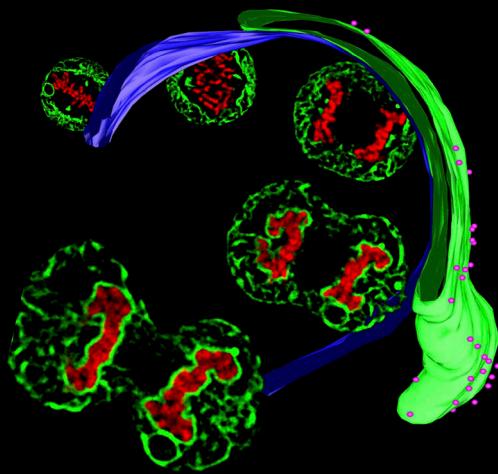
- Formation of the postmitotic nuclear envelope from extended ER cisternae precedes nuclear pore assembly
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- Spatial code recognition in neuronal RNA targeting: Role of RNA–hnRNP A2 interactions
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- The COG complex interacts directly with Syntaxin 6 and positively regulates endosome-to-TGN retrograde transport
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On the cover

Lu et al. describe how the nuclear envelope forms directly from ER cisternae before nuclear pore complexes reassemble after mitosis. In a time series of confocal micrographs, the ER (green) progressively envelopes separating chromosomes (red). The electron tomographic model shows an ER cisternae (green) contacting the surface of mitotic chromosomes (blue), where it forms the outer and inner nuclear membranes.

Image courtesy of Lu et al.

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The myosin-related motor protein Myo2 is an essential mediator of bud-directed mitochondrial movement in yeast
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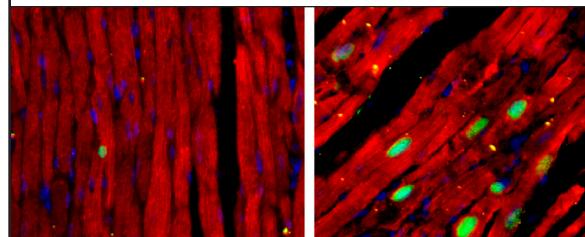
FGF and retinoic acid activity gradients control the timing of neural crest cell emigration in the trunk
Patricia L. Martínez-Morales, Ruth Diez del Corral, Isabel Olivera-Martínez, Alejandra C. Quiroga, Raman M. Das, Julio A. Barbas, Kate G. Storey, and Aixa V. Morales

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REST/NRSF governs the expression of dense-core vesicle gliosecretion in astrocytes

Ilaria Prada, Julie Marchaland, Paola Podini, Lorenzo Magrassi, Rosalba D'Alessandro, Paola Bezzi, and Jacopo Meldolesi



Sdek et al. demonstrate that Rb proteins maintain the postmitotic state of adult cardiomyocytes by recruiting heterochromatin proteins to silence proliferation-promoting genes. Compared to control tissue (left), adult cardiac muscle (red) lacking the Rb family members Rb and p130 (right) shows increased numbers of proliferative nuclei (green).
Image © 2011 Sdek et al.

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