

NEWS

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M. Leslie

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N. LeBrasseur

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- To die or not to die—a role for Fork head
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- SYCE2 is required for synaptonemal complex assembly, double strand break repair, and homologous recombination
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- Chromosome breakage after G2 checkpoint release
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- Functional genomics identifies a Myb domain-containing protein family required for assembly of CENP-A chromatin
Paul S. Maddox, Francie Hyndman, Joost Monen, Karen Oegema, and Arshad Desai

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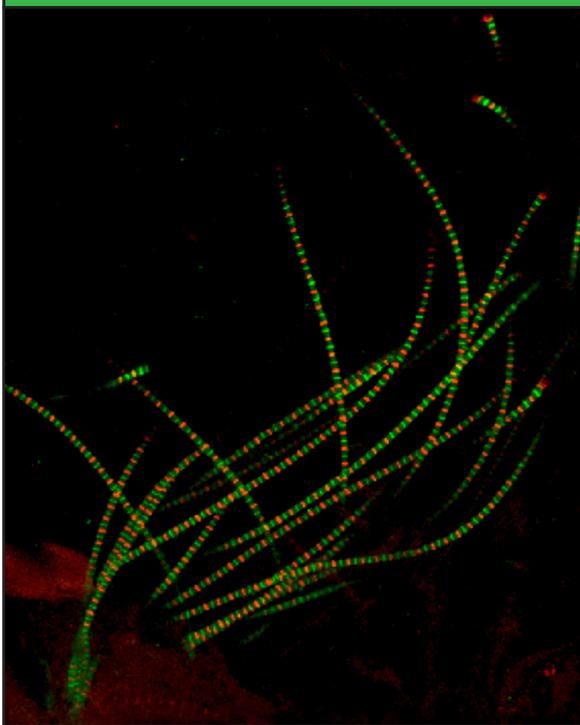
- Xenopus tropicalis* egg extracts provide insight into scaling of the mitotic spindle
Katherine S. Brown, Michael D. Blower, Thomas J. Maresca, Timothy C. Grammer, Richard M. Harland, and Rebecca Heald

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- Exo70p mediates the secretion of specific exocytic vesicles at early stages of the cell cycle for polarized cell growth
Bing He, Fengong Xi, Jian Zhang, Daniel TerBush, Xiaoyu Zhang, and Wei Guo

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- Requirement of ZO-1 for the formation of belt-like adherens junctions during epithelial cell polarization
Junichi Ikenouchi, Kazuaki Umeda, Sachiko Tsukita, Mikio Furuse, and Shoichiro Tsukita



On the cover

Fly myofibrils (shown) are abnormal in the absence of SMN, which associates with α -actinin (red) to form thin filaments. Mutations in human SMN cause spinal muscular atrophy.

See page 831.

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Absence of integrin-mediated TGF β 1 activation in vivo recapitulates the phenotype of TGF β 1-null mice

Zhiwei Yang, Zhenyu Mu, Branka Dabovic, Vladimir Jurukovski, Dawen Yu, Joanne Sung, Xiaozhong Xiong, and John S. Munger

Articles

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Propagation of centromeric chromatin requires exit from mitosis

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Critical requirement for cell cycle inhibitors in sustaining nonproliferative states

Deborah Pajalunga, Alessia Mazzola, Anna Maria Salzano, Maria Grazia Biferi, Gabriele De Luca, and Marco Crescenzi

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A CDK-related kinase regulates the length and assembly of flagella in *Chlamydomonas*

Lai-Wa Tam, Nedra F. Wilson, and Paul A. Lefebvre

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A *Drosophila melanogaster* model of spinal muscular atrophy reveals a function for SMN in striated muscle

T.K. Rajendra, Graydon B. Gonsalvez, Michael P. Walker, Karl B. Shpargel, Helen K. Salz, and A. Gregory Matera

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Fork head controls the timing and tissue selectivity of steroid-induced developmental cell death

Chike Cao, Yanling Liu, and Michael Lehmann

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Identification of prothymosin- α 1, the necrosis–apoptosis switch molecule in cortical neuronal cultures

Hiroshi Ueda, Ryousuke Fujita, Akira Yoshida, Hayato Matsunaga, and Mutsumi Ueda

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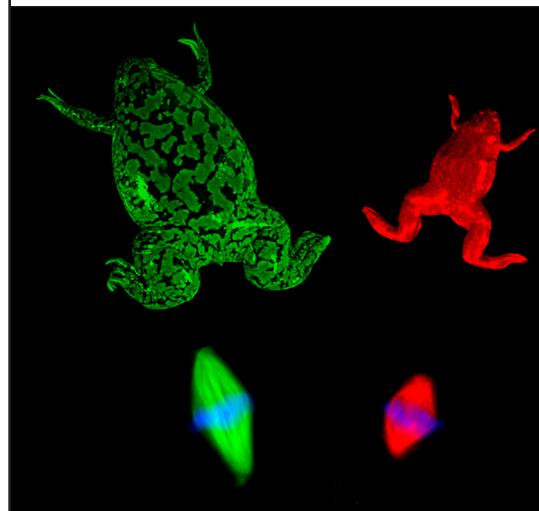
The Par polarity complex regulates Rap1- and chemokine-induced T cell polarization

Audrey Gérard, Alexander E.E. Mertens, Rob A. van der Kammen, and John G. Collard

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Syk, c-Src, the $\alpha\beta\gamma\delta$ 3 integrin, and ITAM immunoreceptors, in concert, regulate osteoclastic bone resorption

Wei Zou, Hideki Kitaura, Jennifer Reeve, Fanxin Long, Victor L.J. Tybulewicz, Sanford J. Shattil, Mark H. Ginsberg, F. Patrick Ross, and Steven L. Teitelbaum



Spindles (bottom) are ~30% longer in *Xenopus laevis* (green) than in its smaller, faster-breeding relative, *X. tropicalis* (red). See page 765.