

NEWS

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- Career change for a mitotic protein
- Hauling tail
- Neurons on life support
- Short proteins got no reason to leave

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- Spine actin for memory
- Motor tug-of-war is productive
- Enzyme shapes mitochondria
- Stem cells sport longest telomeres
- Myosin and kinesin collaborate

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- Richard Gardner: Nuclear garbologist

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- Gone with the Wnt/Notch: stem cells in laminopathies, progeria, and aging

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- Pushing for answers: is myosin V directly involved in moving mitochondria?

Rajeshwari R. Valiathan and Lois S. Weisman

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- Relaxing the actin cytoskeleton for adhesion and movement with Ena/VASP

Léa Trichet, Cécile Sykes, and Julie Plastino

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- Nuclear envelope defects cause stem cell dysfunction in premature-aging mice

Jesús Espada, Ignacio Varela, Ignacio Flores, Alejandro P. Ugalde, Juan Cadiñanos, Alberto M. Pendás, Colin L. Stewart, Karl Tryggvason, María A. Blasco, José M.P. Freije, and Carlos López-Otín

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- Progranulin functions as a neurotrophic factor to regulate neurite outgrowth and enhance neuronal survival

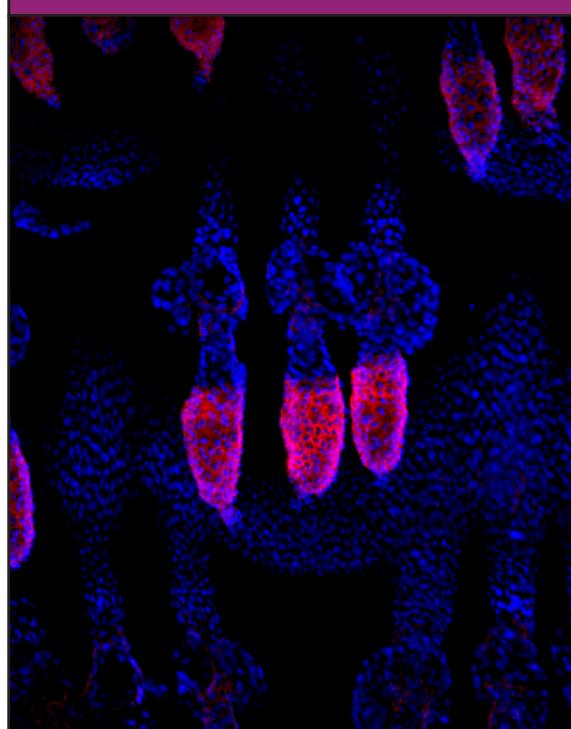
Philip Van Damme, Annelies Van Hoecke, Diether Lambrechts, Peter Vanacker, Elke Bogaert, John van Swieten, Peter Carmeliet, Ludo Van Den Bosch, and Wim Robberecht

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- Compensatory role for Pyk2 during angiogenesis in adult mice lacking endothelial cell FAK

Sara M. Weis, Ssang-Taek Lim, Kimberly M. Lutu-Fuga, Leo A. Barnes, Xiao Lei Chen, Joachim R. Göthert, Tang-Long Shen, Jun-Lin Guan, David D. Schlaepfer, and David A. Cheresh

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On the cover

Skin stem cells (red), which reside in the hair follicles, replicate sluggishly in a mouse model of the premature aging disease, Hutchinson-Gilford progeria syndrome.

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Articles

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- The eIF4E RNA regulon promotes the Akt signaling pathway
Biljana Culjkovic, Keith Tan, Slobodanka Orllicki, Abdellatif Amri,
Sylvain Meloche, and Katherine L.B. Borden

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- Plk1- and β -TrCP-dependent degradation of Bora controls mitotic progression
Akiko Seki, Judith A. Coppinger, Haining Du, Chang-Young Jang, John R. Yates III,
and Guowei Fang

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- The Clp1/Cdc14 phosphatase contributes to the robustness of cytokinesis by association with anillin-related Mid1
Dawn M. Clifford, Benjamin A. Wolfe, Rachel H. Roberts-Galbraith,
W. Hayes McDonald, John R. Yates III, and Kathleen L. Gould

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- Myt1 protein kinase is essential for Golgi and ER assembly during mitotic exit
Hiroyuki Nakajima, Shigenobu Yonemura, Masayuki Murata, Nobuhiro Nakamura,
Helen Piwnica-Worms, and Eisuke Nishida

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- Transmembrane domain-dependent partitioning of membrane proteins within the endoplasmic reticulum
Paolo Ronchi, Sara Colombo, Maura Francolini, and Nica Borgese

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- The class V myosin motor protein, Myo2, plays a major role in mitochondrial motility in *Saccharomyces cerevisiae*
Katrín Altmann, Martina Frank, Daniel Neumann, Stefan Jakobs,
and Benedikt Westermann

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- Ras signaling directs endothelial specification of VEGFR2⁺ vascular progenitor cells
Kyoko Kawasaki, Tetsuro Watabe, Hitoshi Sase, Masanori Hirashima,
Hiroshi Koide, Yasuyuki Morishita, Keiko Yuki, Toshikuni Sasaoka, Toshio Suda,
Motoya Katsuki, Kohei Miyazono, and Keiji Miyazawa

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- IP₃ sensitizes TRPV4 channel to the mechano- and osmotransducing messenger 5'-6'-epoxyeicosatrienoic acid
Jacqueline Fernandes, Ivan M. Lorenzo, Yaniré N. Andrade, Anna García-Elias,
Selma A. Serra, José M. Fernández-Fernández, and Miguel A. Valverde

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- straightjacket* is required for the synaptic stabilization of *cacophony*, a voltage-gated calcium channel α_1 subunit
Cindy V. Ly, Chi-Kuang Yao, Patrik Verstreken, Tomoko Ohshima,
and Hugo J. Bellen

Corrections

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- Proliferation-dependent and cell cycle-regulated transcription of mouse pericentric heterochromatin
Junjie Lu and David M. Gilbert

