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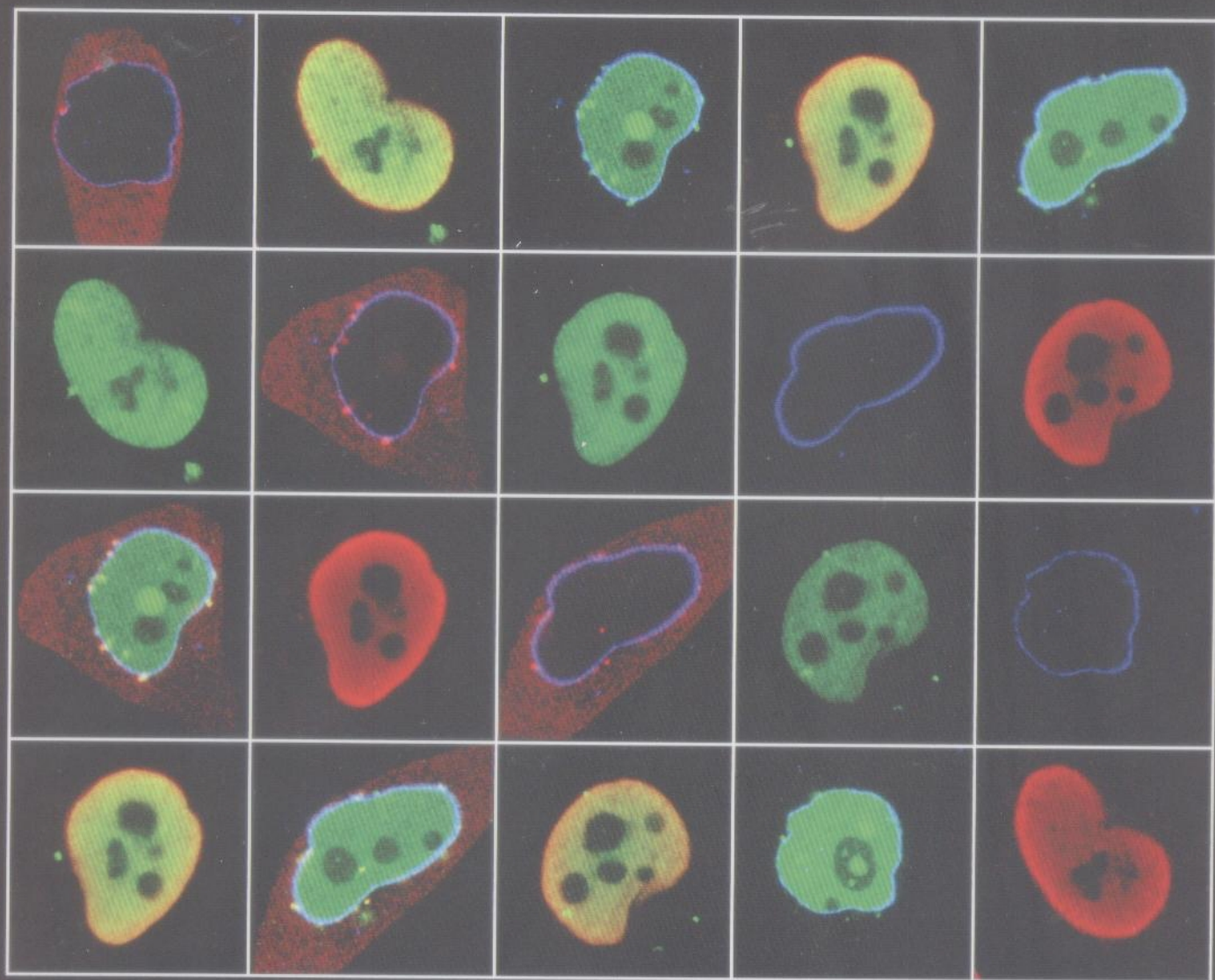
THE JOURNAL OF CELL BIOLOGY

VOL. 201, NO. 4, MAY 13, 2013

Cracking the
Oncogenic Wip

Formin Follows Bil1's
Function

Modeling Kinetochore
Dynamics



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Progerin Imposes Nuclear Import Restrictions

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Articles

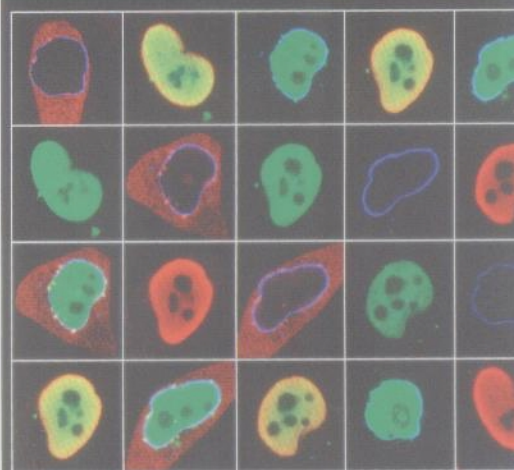
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- Chelsi J. Snow, Ashraf Dar, Anindya Dutta, Ralph H. Kehlenbach, and Bryce M. Paschal
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- The UBXN-2/p37/p47 adaptors of CDC-48/p97 regulate mitosis by limiting the centrosomal recruitment of Aurora A
- Elsa Kress, Françoise Schwager, René Holtackers, Jonas Seiler, François Prodon, Esther Zanin, Annika Eiteneuer, Mika Toya, Asako Sugimoto, Hemmo Meyer, Patrick Meraldi, and Monica Gotta

Articles with related stories in the IN THIS ISSUE section have page numbers in **RED**; articles related to the IN FOCUS feature have page numbers in **BLUE**; articles with COMMENTS have page numbers in **GREEN**.

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On the cover

Progerin (blue), a mutant form of lamin A found in patients with Hutchinson-Gilford Progeria syndrome, inhibits the nuclear import of pyruvate kinase-SV40NLS (red) but permits the import of streptavidin-SV40NLS (green). In the absence of Progerin, however, both reporter proteins are nuclear. Snow et al. reveal that larger protein cargoes, such as pyruvate kinase-SV40NLS, are more sensitive to the altered Ran GTPase distribution caused by Progerin expression. Image © 2013 Snow et al.

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Dynamic bonds and polar ejection force distribution explain kinetochore oscillations in PtK1 cells

Gul Civelekoglu-Scholey, Bin He, Muxiao Shen, Xiaohu Wan, Emanuele Roscioli, Brent Bowden, and Daniela Cimini

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Ligand-induced activation of a formin–NPF pair leads to collaborative actin nucleation

Brian R. Graziano, Erin M. Jonasson, Jessica G. Pullen, Christopher J. Gould, and Bruce L. Goode

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p53-dependent release of Alarmin HMGB1 is a central mediator of senescent phenotypes

Albert R. Davalos, Misako Kawahara, Gautam K. Malhotra, Nicholas Schaum, Jiahao Huang, Urvi Ved, Christian M. Beausejour, Jean-Philippe Coppe, Francis Rodier, and Judith Campisi

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A light-triggered protein secretion system

Daniel Chen, Emily S. Gibson, and Matthew J. Kennedy

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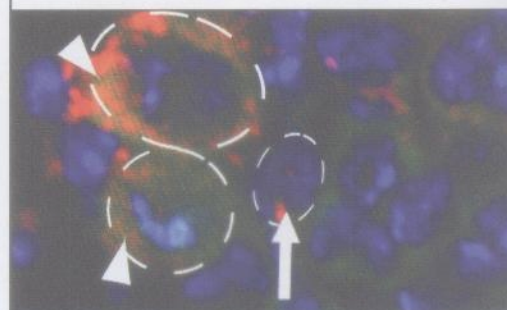
Endorepellin causes endothelial cell disassembly of actin cytoskeleton and focal adhesions through $\alpha 2 \beta 1$ integrin

Gregory Bix, Jian Fu, Eva M. Gonzalez, Laura Macro, Amy Barker, Shelly Campbell, Mary M. Zutter, Samuel A. Santoro, Jiyeun K. Kim, Magnus Höök, Charles C. Reed, and Renato V. Iozzo

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Osteoblast mineralization requires $\beta 1$ integrin/ICAP-1-dependent fibronectin deposition

Molly Brunner, Angélique Millon-Frémillon, Genevieve Chevalier, Inaam A. Nakchbandi, Deane Mosher, Marc R. Block, Corinne Albigès-Rizo, and Daniel Bouvard



Bufalino et al. examine the asymmetric segregation of damaged proteins between *Drosophila* stem cells and their progeny. Female germline stem cells (arrowheads), for example, retain proteins modified with 2,4-hydroxynonenal (red), limiting their segregation into cystoblasts (arrow), possibly because these latter cells give rise to new flies and therefore need to be protected.

Image © 2013 Bufalino et al.

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