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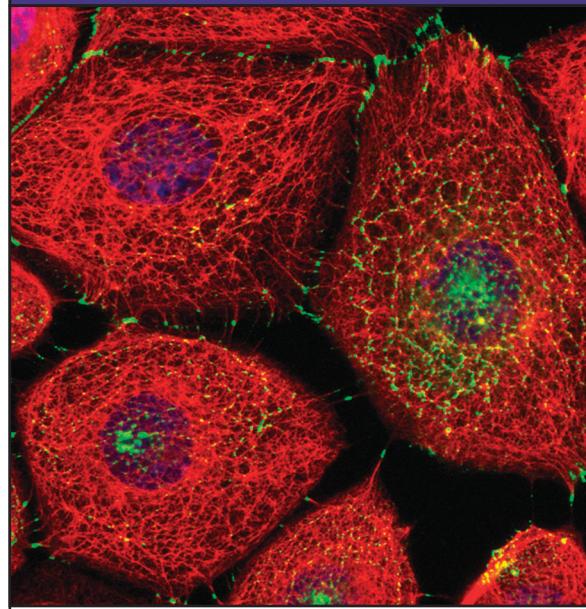
- DNA2 drives processing and restart of reversed replication forks in human cells
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- Three distinct ribosome assemblies modulated by translation are the building blocks of polysomes
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On the cover

Albrecht et al. demonstrate that phosphorylation and methylation of the desmosomal protein desmoplakin is required for the proper assembly of intercellular adhesions. A mutation linked to arrhythmogenic cardiomyopathy abolishes one of desmoplakin's methylation sites, and a version of the protein carrying this mutation (green) shows increased association with keratin intermediate filaments (red), thereby delaying its assembly into intercellular junctions. DNA is labeled blue.

Image © 2015 Albrecht et al.
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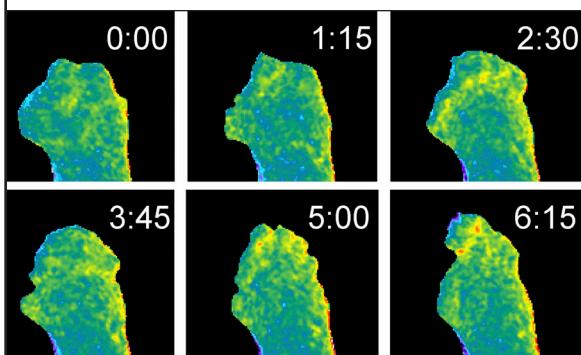
GSK3- and PRMT1-dependent modifications of desmoplakin control desmoplakin–cytoskeleton dynamics
Lauren V. Albrecht, Lichao Zhang, Jeffrey Shabanowitz, Enkhsaikhan Purevjav, Jeffrey A. Towbin, Donald F. Hunt, and Kathleen J. Green

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Regulation of C-X-C chemokine gene expression by keratin 17 and hnRNP K in skin tumor keratinocytes
Byung Min Chung, Artem Arutyunov, Erika Ilagan, Nu Yao, Marsha Wills-Karp, and Pierre A. Coulombe

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DENND2B activates Rab13 at the leading edge of migrating cells and promotes metastatic behavior
Maria S. Ioannou, Emily S. Bell, Martine Girard, Mathilde Chaineau, Jason N.R. Hamlin, Mark Daubaras, Anie Monast, Morag Park, Louis Hodgson, and Peter S. McPherson



Time-lapse imaging of a FRET-based bio-sensor shows that the small GTPase Rab13 is activated (yellow) at the leading edge of a migrating breast epithelial cell by the exchange factor DENND2B. Ioannou et al. reveal that Rab13 activation promotes cancer cell invasion and metastasis.
Image © 2015 Ioannou et al.
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