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- Misshapen decreases integrin levels to promote epithelial motility and planar polarity in *Drosophila*
Lindsay Lewellyn, Maureen Cetera, and Sally Horne-Badovinac

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- Mice deficient in *Epg5* exhibit selective neuronal vulnerability to degeneration
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- CUL4B promotes replication licensing by up-regulating the CDK2–CDC6 cascade
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- Pericentric chromatin loops function as a nonlinear spring in mitotic force balance
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On the cover

Lewellyn et al. describe how the protein kinase Misshapen decreases integrin levels to promote the migration of follicle cells during *Drosophila* egg chamber morphogenesis. In an egg chamber stained for cortical actin (red), wild-type follicle cells (marked with GFP, green) break away from a group of immotile, Misshapen-null cells and bisect the oocyte by invading the inner germ cell cluster. Image © 2013 Lewellyn et al.

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MISP is a novel Plk1 substrate required for proper spindle orientation and mitotic progression

Mei Zhu, Florian Settele, Sachin Kotak, Luis Sanchez-Pulido, Lena Ehret, Chris P. Ponting, Pierre Gönczy, and Ingrid Hoffmann

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Bidirectional Ca²⁺ signaling occurs between the endoplasmic reticulum and acidic organelles

Anthony J. Morgan, Lianne C. Davis, Siegfried K.T.Y. Wagner, Alexander M. Lewis, John Parrington, Grant C. Churchill, and Antony Galione

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The C8ORF38 homologue Sicily is a cytosolic chaperone for a mitochondrial complex I subunit

Ke Zhang, Zhihong Li, Manish Jaiswal, Vafa Bayat, Bo Xiong, Hector Sandoval, Wu-Lin Charng, Gabriela David, Claire Haueter, Shinya Yamamoto, Brett H. Graham, and Hugo J. Bellen

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Vps35 loss promotes hyperresorptive osteoclastogenesis and osteoporosis via sustained RANKL signaling

Wen-Fang Xia, Fu-Lei Tang, Lei Xiong, Shan Xiong, Ji-Ung Jung, Dae-Hoon Lee, Xing-Sheng Li, Xu Feng, Lin Mei, and Wen-Cheng Xiong

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A novel single-cell screening platform reveals proteome plasticity during yeast stress responses

Michal Breker, Melissa Gymrek, and Maya Schuldiner

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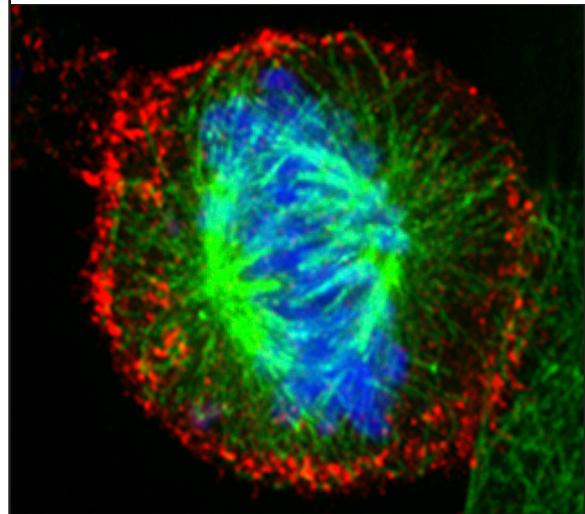
Akt regulates L-type Ca²⁺ channel activity by modulating Ca_vα1 protein stability

Daniele Catalucci, Deng-Hong Zhang, Jaime DeSantiago, Franck Aimond, Guillaume Barbara, Jean Chemin, Désiré Bonci, Eckard Picht, Francesca Rusconi, Nancy D. Dalton, Kirk L. Peterson, Sylvain Richard, Donald M. Bers, Joan Heller Brown, and Gianluigi Condorelli

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***Drosophila* PATJ supports adherens junction stability by modulating Myosin light chain activity**

Arnab Sen, Zsanett Nagy-Zsvér-Vadas, and Michael P. Krahn



Zhu et al. identify MISP (red), an actin-associated protein that stabilizes the attachment of astral microtubules (green) to the cell cortex, thereby promoting mitotic spindle positioning.

Image © 2013 Zhu et al.

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