

## NEWS

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- Epiblast cells CLASP onto the basement membrane
- Bruchpilot readies synaptic vesicles for release
- Phosphorylation helps Atg18 get the vacuole in shape

Ben Short

### In Focus

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- Aurora B helps the central spindle measure up

Ben Short

### People & Ideas

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- Jody Rosenblatt: To extrude apically or basally, that is the question

Caitlin Sedwick

## RESEARCH ARTICLES

### Articles

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- Aurora B suppresses microtubule dynamics and limits central spindle size by locally activating KIF4A  
Ricardo Nunes Bastos, Sapan R. Gandhi, Ryan D. Baron, Ulrike Gruneberg, Erich A. Nigg, and Francis A. Barr

**623**

- Aurora B and Kif2A control microtubule length for assembly of a functional central spindle during anaphase  
Ryota Uehara, Yuki Tsukada, Tomoko Kamasaki, Ina Poser, Kinya Yoda, Daniel W. Gerlich, and Gohta Goshima

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- Epiblast integrity requires CLASP and Dystroglycan-mediated microtubule anchoring to the basal cortex  
Yukiko Nakaya, Eriko W. Sukowati, and Guojun Sheng

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- The GEF Bcr activates RhoA/MAL signaling to promote keratinocyte differentiation via desmoglein-1  
Adi D. Dubash, Jennifer L. Koetsier, Evangeline V. Amargo, Nicole A. Najor, Robert M. Harmon, and Kathleen J. Green

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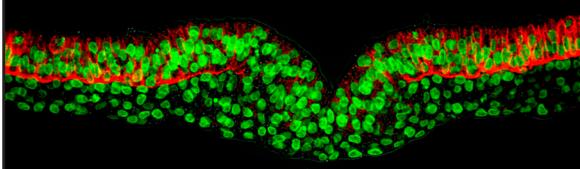
- The Bruchpilot cytomatrix determines the size of the readily releasable pool of synaptic vesicles  
Tanja Matkovic, Matthias Siebert, Elena Knoche, Harald Depner, Sara Mertel, David Owald, Manuela Schmidt, Ulrich Thomas, Albert Sickmann, Dirk Kamin, Stefan W. Hell, Jörg Bürger, Christina Hollmann, Thorsten Mielke, Carolin Wichmann, and Stephan J. Sigrist

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- Atg18 phosphoregulation controls organellar dynamics by modulating its phosphoinositide-binding activity  
Naoki Tamura, Masahide Oku, Moemi Ito, Nobuo N. Noda, Fuyuhiko Inagaki, and Yasuyoshi Sakai

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- hGAAP promotes cell adhesion and migration via the stimulation of store-operated  $\text{Ca}^{2+}$  entry and calpain 2  
Nuno Saraiva, David L. Prole, Guia Carrara, Benjamin F. Johnson, Colin W. Taylor, Maddy Parsons, and Geoffrey L. Smith



### On the cover

A cross-section through the primitive streak of an early chick embryo shows how the cell adhesion protein  $\beta$ -dystroglycan (red) is down-regulated in epiblast cells undergoing epithelial-to-mesenchymal transition during gastrulation. Nakaya et al. reveal how this process is regulated by the CLASP family of microtubule plus-end tracking proteins. Nuclei are labeled green.  
Image © 2013 Nakaya et al.

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## Corrections

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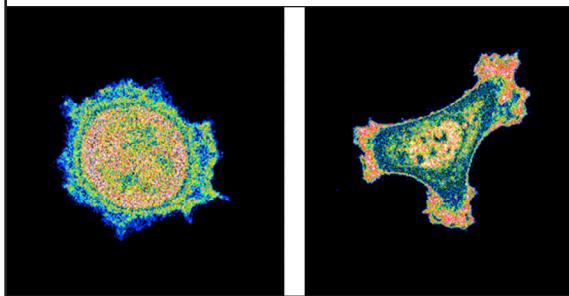
### Complete repair of dystrophic skeletal muscle by mesoangioblasts with enhanced migration ability

Beatriz G. Galvez, Maurilio Sampaolesi, Silvia Brunelli, Diego Covarello, Manuela Gavina, Barbara Rossi, Gabriela Constantin, Yvan Torrente, and Giulio Cossu

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### The tumor suppressor CDKN3 controls mitosis

Grzegorz Nalepa, Jill Barnholtz-Sloan, Rikki Enzor, Dilip Dey, Ying He, Jeff R. Gehlhausen, Amalia S. Lehmann, Su-Jung Park, Yanzhu Yang, Xianlin Yang, Shi Chen, Xiaowei Guan, Yanwen Chen, Jamie Renbarger, Feng-Chun Yang, Luis F. Parada, and Wade Clapp



A FRET-based biosensor monitors the activity of the calcium-activated protease calpain in a control cell (left) and a cell overexpressing the Golgi anti-apoptotic protein hGAAP (right). hGAAP enhances calpain activity (red) near the plasma membrane, thereby promoting focal adhesion turnover and cell migration.  
Image © 2013 Saraiva et al.

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