

## NEWS

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- Vinculin minds the gap
- As the sperm turns

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- Indirect inhibition of 26S proteasome activity in a cellular model of Huntington's disease  
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- JunB contributes to Id2 repression and the epithelial–mesenchymal transition in response to transforming growth factor- $\beta$   
Megan Gervasi, Anna Bianchi-Smiraglia, Michael Cummings, Qiao Zheng, Dan Wang, Song Liu, and Andrei V. Bakin

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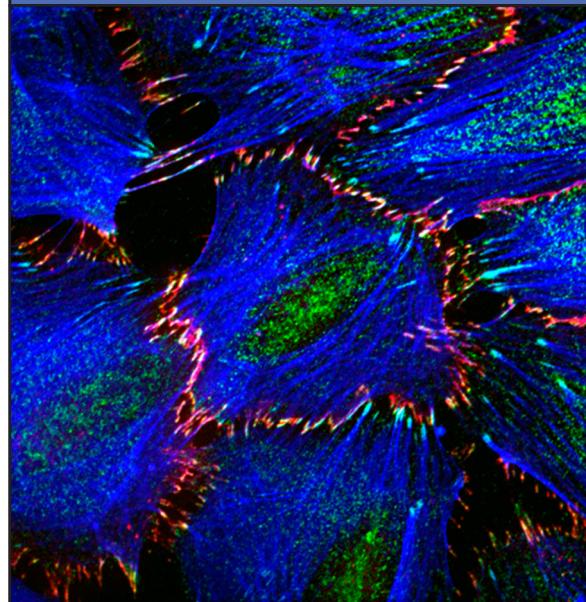
- Drosophila CK1- $\gamma$ , gilgamesh*, controls PCP-mediated morphogenesis through regulation of vesicle trafficking  
William J. Gault, Patricio Olguin, Ursula Weber, and Marek Mlodzik

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- aPKC phosphorylates JAM-A at Ser285 to promote cell contact maturation and tight junction formation  
Sandra Iden, Steve Misselwitz, Swetha S.D. Peddibhotla, Hüseyin Tuncay, Daniela Rehder, Volker Gerke, Horst Robenek, Atsushi Suzuki, and Klaus Ebnet

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- Vinculin associates with endothelial VE-cadherin junctions to control force-dependent remodeling  
Stephan Huvaneers, Joppe Oldenburg, Emma Spanjaard, Gerard van der Krogt, Ilya Grigoriev, Anna Akhmanova, Holger Rehmann, and Johan de Rooij

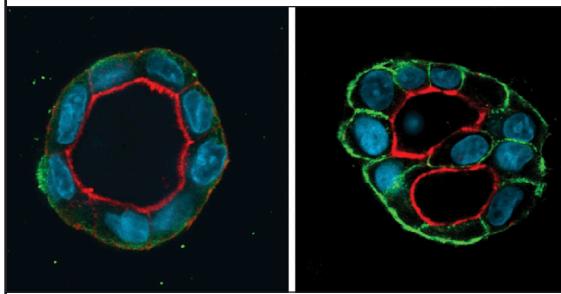


### On the cover

Endothelial cell–cell junctions containing VE-cadherin (red) are pulled by radial F-actin bundles (blue) as they remodel in response to the vascular permeability factor thrombin. Huvaneers et al. reveal that the mechanosensory protein vinculin (green) protects these junctions from opening during the remodeling process. Image courtesy of Stephan Huvaneers.

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The rate of change in  $\text{Ca}^{2+}$  concentration controls sperm chemotaxis  
Luis Alvarez, Luru Dai, Benjamin M. Friedrich, Nachiket D. Kashikar,  
Ingo Gregor, René Pascal, and U. Benjamin Kaupp



Iden et al. show that atypical protein kinase C binds and phosphorylates the junctional adhesion molecule JAM-A to promote the maturation of cell-cell contacts and tight junction formation. In 3D culture, MDCK epithelial cells usually form a spherical cyst with a single lumen (left). But the expression of a non-phosphorylatable JAM-A (green) results in cysts with multiple lumens (right).  
Image © 2012 Iden et al.  
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