

## NEWS

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- Licensing factors lose their credentials
- n-Syb makes a dangerous delivery
- DGK- $\alpha$  keeps integrins close to the edge

M. Leslie

### In Focus

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- Spare the Rod1, spoil transporter endocytosis

M. Leslie

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- Tobias Walther: Floating ideas on lipids

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- FAK and talin: who is taking whom to the integrin engagement party?

Bryan Serrels and Margaret C. Frame

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- The Ras protein superfamily: Evolutionary tree and role of conserved amino acids

Ana Maria Rojas, Gloria Fuentes, Antonio Rausell, and Alfonso Valencia

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### Reports

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- Novel plant SUN-KASH bridges are involved in RanGAP anchoring and nuclear shape determination

Xiao Zhou, Katja Graumann, David E. Evans, and Iris Meier

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- Quantitative analysis of the lipidomes of the influenza virus envelope and MDCK cell apical membrane

Mathias J. Gerl, Julio L. Sampaio, Severino Urban, Lucie Kalvodova, Jean-Marc Verbavatz, Beth Binnington, Dirk Lindemann, Clifford A. Lingwood, Andrej Shevchenko, Cornelia Schroeder, and Kai Simons

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- FAK promotes recruitment of talin to nascent adhesions to control cell motility

Christine Lawson, Ssang-Taek Lim, Sean Uryu, Xiao Lei Chen, David A. Calderwood, and David D. Schlaepfer

### Articles

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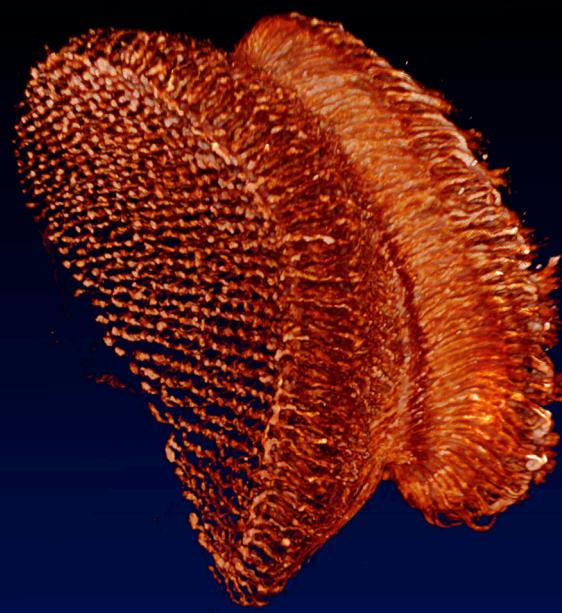
- The dynamics of replication licensing in live *Caenorhabditis elegans* embryos

Remi Sonneville, Matthieu Querenet, Ashley Craig, Anton Gartner, and J. Julian Blow

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- A molecular switch on an arrestin-like protein relays glucose signalling to transporter endocytosis

Michel Becuwe, Neide Vieira, David Lara, Jéssica Gomes-Rezende, Carina Soares-Cunha, Margarida Casal, Rosine Hagenauer-Tsapis, Olivier Vincent, Sandra Paiva, and Sébastien Léon



### On the cover

A 3D visualization shows the photoreceptor projections in an adult *Drosophila* brain. Haberman et al. reveal that, in addition to regulating synaptic vesicle exocytosis, the SNARE protein Synaptobrevin also promotes endolysosomal degradation. Loss of this degradation mechanism in photoreceptors leads to adult-onset neurodegeneration.

Image courtesy of Robin Hiesinger.

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The synaptic vesicle SNARE neuronal Synaptobrevin promotes endolysosomal degradation and prevents neurodegeneration  
Adam Haberman, W. Ryan Williamson, Daniel Epstein, Dong Wang, Srisha Rina, Ian A. Meinertzhangen, and P. Robin Hiesinger

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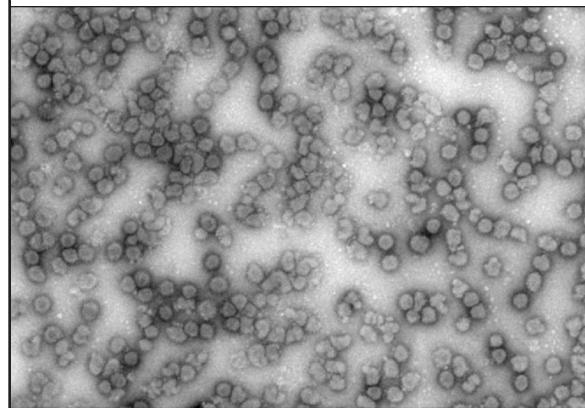
Diacylglycerol kinase  $\alpha$  controls RCP-dependent integrin trafficking to promote invasive migration  
Elena Rainero, Patrick T. Caswell, Patricia A.J. Muller, Joan Grindlay, Mary W. McCaffrey, Qifeng Zhang, Michael J.O. Wakelam, Karen H. Vousden, Andrea Graziani, and Jim C. Norman

**Corrections**

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Desmosomal cadherins utilize distinct kinesins for assembly into desmosomes

Oxana E. Nekrasova, Evangeline V. Amargo, William O. Smith, Jing Chen, Geri E. Kreitzer, and Kathleen J. Green



An electron micrograph shows a batch of purified influenza virus particles. Gerl et al. analyze the lipid composition of the viral envelope and find that it is enriched in sphingolipids and cholesterol obtained from the host cell's apical membrane during viral budding.  
Image © 2012 Gerl et al.  
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