

## NEWS

### In This Issue

**596**

- HIV-1 makes a pore adjustment
- Sphingolipid puts the squeeze on apoptotic cells
- Bigger isn't better  
B. Short

### In Focus

**597**

- Titin isn't a sleeping giant  
B. Short

### People & Ideas

**598**

- Harvey McMahon: Ahead of the curve on membrane dynamics  
B. Short

### In Memoriam

**601**

- Richard G.W. Anderson (1940–2011) and the birth of receptor-mediated endocytosis  
M.S. Brown and J.L. Goldstein

## REVIEWS

### Comments

**605**

- Seed and grow: a two-step model for nuclear body biogenesis  
Miroslav Dundr

### Reviews

**607**

- Lymphatic vascular morphogenesis in development, physiology, and disease  
Stefan Schulte-Merker, Amélie Sabine, and Tatiana V. Petrova

## RESEARCH ARTICLES

### Reports

**619**

- HIV-1 remodels the nuclear pore complex  
Anne Monette, Nelly Panté, and Andrew J. Moulard

**633**

- NPHP4, a cilia-associated protein, negatively regulates the Hippo pathway  
Sandra Habbig, Malte P. Bartram, Roman U. Müller, Ricarda Schwarz, Nikolaos Andriopoulos, Shuhua Chen, Josef G. Sägmüller, Martin Hoehne, Volker Burst, Max C. Liebau, H. Christian Reinhardt, Thomas Benzing, and Bernhard Schermer

**643**

- Dual-mode of insulin action controls GLUT4 vesicle exocytosis  
Yingke Xu, Bradley R. Rubin, Charisse M. Orme, Alexander Karpikov, Chenfei Yu, Jonathan S. Bogan, and Derek K. Toomre

**655**

- RhoA and RhoC have distinct roles in migration and invasion by acting through different targets  
Francisco M. Vega, Gilbert Fruhwirth, Tony Ng, and Anne J. Ridley

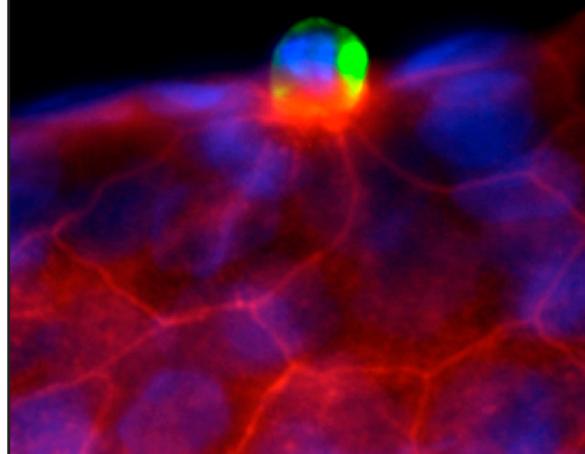
**667**

- Epithelial cell extrusion requires the sphingosine-1-phosphate receptor 2 pathway  
Yapeng Gu, Tetyana Forostyan, Roger Sabbadini, and Jody Rosenblatt

### Articles

**677**

- Drosophila* histone locus bodies form by hierarchical recruitment of components  
Anne E. White, Brandon D. Burch, Xiao-cui Yang, Pamela Y. Gasdaska, Zbigniew Dominski, William F. Marzluff, and Robert J. Duronio



### On the cover

An apoptotic cell (green) is extruded from the zebrafish larval epidermis by an actin (red) and myosin ring that forms in the adjacent live cells. Gu et al. reveal that dying cells tell their neighbors to squeeze them out of the tissue by producing the sphingolipid sphingosine-1-phosphate. Image by Tetyana Forostyan, © 2011 Gu et al.

See page 667.

**695**

Tuberous sclerosis complex and Myc coordinate the growth and division of *Drosophila* intestinal stem cells  
Alla Amcheslavsky, Naoto Ito, Jin Jiang, and Y. Tony Ip

**711**

Centrobin–tubulin interaction is required for centriole elongation and stability  
Radhika Gudi, Chaozhong Zou, Jun Li, and Qingshen Gao

**727**

The conversion of centrioles to centrosomes: essential coupling of duplication with segregation  
Won-Jing Wang, Rajesh Kumar Soni, Kunihiro Uryu, and Meng-Fu Bryan Tsou

**741**

Asymmetric properties of the *Chlamydomonas reinhardtii* cytoskeleton direct rhodopsin photoreceptor localization  
Telsa M. Mittelmeier, Joseph S. Boyd, Mary Rose Lamb, and Carol L. Dieckmann

**755**

Two MAPK-signaling pathways are required for mitophagy in *Saccharomyces cerevisiae*  
Kai Mao, Ke Wang, Mantong Zhao, Tao Xu, and Daniel J. Klionsky

**769**

Sarm1, a negative regulator of innate immunity, interacts with syndecan-2 and regulates neuronal morphology  
Chiung-Ya Chen, Chia-Wen Lin, Chiung-Ying Chang, Si-Tse Jiang, and Yi-Ping Hsueh

**785**

Titin visualization in real time reveals an unexpected level of mobility within and between sarcomeres  
Katharina da Silva Lopes, Agnieszka Pietas, Michael H. Radke, and Michael Gotthardt



PC3 cells (left) adopt an elongated shape in the absence of RhoA (middle) but spread out when RhoC is depleted (right). Vega et al. demonstrate that these two closely related GTPases have different effects on cell morphology and migration because they interact with different effector proteins.

Image © 2011 Vega et al.

See page 655.