

## NEWS

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- The downside of microtubule stability
- CD44's nuclear road trip
- How a membrane gets the bends

M. Leslie

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- Muscle atrophy through thick but not thin

M. Leslie

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- The role of aneuploidy in promoting and suppressing tumors  
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- Dynamic instability of microtubules requires dynamin 2 and is impaired in a Charcot-Marie-Tooth mutant  
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- Acetylation and activation of STAT3 mediated by nuclear translocation of CD44  
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- Mammalian Fat and Dachsous cadherins regulate apical membrane organization in the embryonic cerebral cortex  
Takashi Ishiuchi, Kazuyo Misaki, Shigenobu Yonemura, Masatoshi Takeichi, and Takuji Tanoue

### Articles

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- Localization of recombination proteins and Srs2 reveals anti-recombinase function in vivo  
Rebecca C. Burgess, Michael Lisby, Veronika Altmannova, Lumir Krejci, Patrick Sung, and Rodney Rothstein

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- Loss of spindle assembly checkpoint-mediated inhibition of Cdc20 promotes tumorigenesis in mice  
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- Role of Inn1 and its interactions with Hof1 and Cyk3 in promoting cleavage furrow and septum formation in *S. cerevisiae*  
Ryuichi Nishihama, Jennifer H. Schreiter, Masayuki Onishi, Elizabeth A. Vallen, Julia Hanna, Katarina Moravcevic, Margaret F. Lippincott, Haesun Han, Mark A. Lemmon, John R. Pringle, and Erfei Bi

**1013**

- Sphingomyelin synthase-related protein SMSr controls ceramide homeostasis in the ER  
Ana M. Vacaru, Fikadu G. Tafesse, Philipp Ternes, Vangelis Kondylis, Martin Hermansson, Jos F.H.M. Brouwers, Pentti Somerharju, Catherine Rabouille, and Joost C.M. Holthuis



### On the cover

The mitochondrial inner membrane folds into highly inviolated cristae that protrude into the mitochondrial matrix. In yeast lacking the Fc1 protein, cristae membranes (yellow) rearrange into concentrically stacked vesicular structures within the matrix.  
**See page 1047.**

- 1029** Ups1p and Ups2p antagonistically regulate cardiolipin metabolism in mitochondria  
Yasushi Tamura, Toshiya Endo, Miho Iijima, and Hiromi Sesaki

- 1047** Formation of cristae and crista junctions in mitochondria depends on antagonism between Fcj1 and Su e/g  
Regina Rabl, Vincent Soubannier, Roland Scholz, Frank Vogel, Nadine Mendl, Andreja Vasiljev-Neumeyer, Christian Körner, Ravi Jagasia, Thomas Keil, Wolfgang Baumeister, Marek Cyrklaff, Walter Neupert, and Andreas S. Reichert

- 1065** HUMMR, a hypoxia- and HIF-1 $\alpha$ -inducible protein, alters mitochondrial distribution and transport  
Yan Li, Seung Lim, David Hoffman, Pontus Aspenstrom, Howard J. Federoff, and David A. Rempe

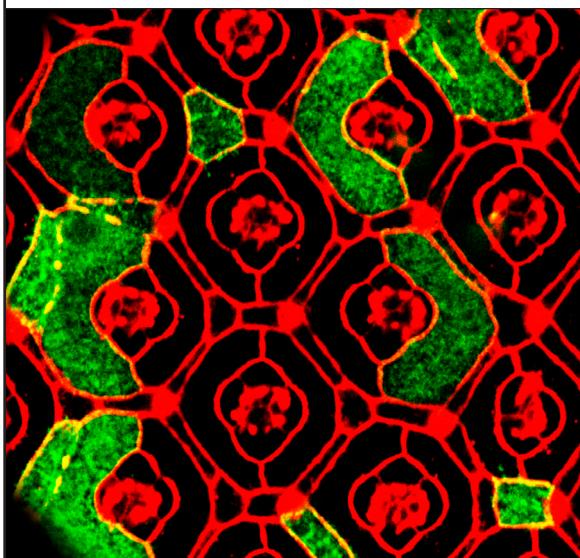
- 1083** During muscle atrophy, thick, but not thin, filament components are degraded by MuRF1-dependent ubiquitylation  
Shenhav Cohen, Jeffrey J. Brault, Steven P. Gygi, David J. Glass, David M. Valenzuela, Carlos Gartner, Esther Latres, and Alfred L. Goldberg

- 1097** Regulators of yeast endocytosis identified by systematic quantitative analysis  
Helen E. Burston, Lymarie Maldonado-Báez, Michael Davey, Benjamen Montpetit, Cayetana Schluter, Beverly Wendland, and Elizabeth Conibear

- 1111** Distinct functions for Rho1 in maintaining adherens junctions and apical tension in remodeling epithelia  
Stephen J. Warner and Gregory D. Longmore

#### Corrections

- 1127** Prion protein attenuates excitotoxicity by inhibiting NMDA receptors  
Houman Khosravani, Yunfeng Zhang, Shigeki Tsutsui, Shahid Hameed, Christophe Altier, Jawed Hamid, Lina Chen, Michelle Villemaire, Zenobia Ali, Frank R. Jirik, and Gerald W. Zamponi



Mutant cells (green) that lack the small GTPase Rho1 demonstrate two distinct functions for the protein during developmental remodeling of the *Drosophila* pupal eye epithelium: Rho1 maintains tension in the epithelial cells and preserves the integrity of cell-cell adhesions (red).  
**See page 1111.**