

## NEWS

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- Apratoxin chaperones EGFR to its destruction
- BDNF sends mixed signals
- Decorin has Met a new receptor  
B. Short

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- A challenge to Goliath  
Mike Rossner

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- Revisiting the role of heterochromatin protein 1 in DNA repair  
Alexander R. Ball Jr., and Kyoko Yokomori

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- Heterochromatin protein 1 is recruited to various types of DNA damage

Martijn S. Luijsterburg, Christoffel Dinant, Hannes Lans, Jan Stap, Elzbieta Wiernasz, Saskia Lagerwerf, Daniël O. Warmerdam, Michael Lindh, Maartje C. Brink, Jurek W. Dobrucki, Jacob A. Aten, Maria I. Fousteri, Gert Jansen, Nico P. Dantuma, Wim Vermeulen, Leon H.F. Mullenders, Adriaan B. Houtsmailler, Pernette J. Verschure, and Roel van Driel

### Articles

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- RAD51C facilitates checkpoint signaling by promoting CHK2 phosphorylation

Sophie Badie, Chunyan Liao, Maria Thanasoula, Paul Barber, Mark A. Hill, and Madalena Tarsounas

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- Segregation of sphingolipids and sterols during formation of secretory vesicles at the trans-Golgi network

Robin W. Klemm, Christer S. Ejsing, Michal A. Surma, Hermann-Josef Kaiser, Matthias J. Gerl, Julio L. Sampaio, Quentin de Robillard, Charles Ferguson, Tomasz J. Proszynski, Andrej Shevchenko, and Kai Simons

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- The Yb protein defines a novel organelle and regulates male germline stem cell self-renewal in *Drosophila melanogaster*

Akos Szakmary, Mary Reedy, Hongying Qi, and Haifan Lin

**629**

- Cyclodepsipeptide toxin promotes the degradation of Hsp90 client proteins through chaperone-mediated autophagy

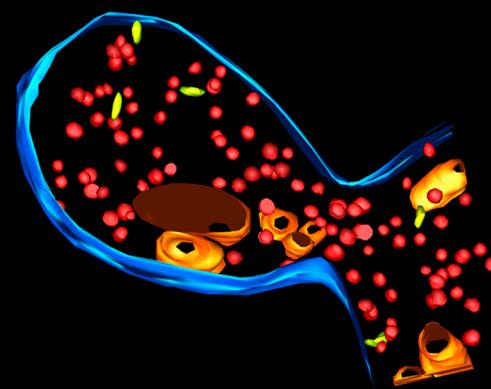
Shensi Shen, Pengtao Zhang, Martin A. Lovchik, Ying Li, Liuya Tang, Zhimin Chen, Rong Zeng, Dawei Ma, Junying Yuan, and Qiang Yu

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- TIP47 functions in the biogenesis of lipid droplets

Anna V. Bulankina, Anke Deggerich, Dirk Wenzel, Kudzai Mutenda, Julia G. Wittmann, Markus G. Rudolph, Koert N.J. Burger, and Stefan Höning

Articles with related stories in the IN THIS ISSUE section have page numbers in RED; articles related to IN FOCUS have page numbers in BLUE; articles with COMMENTS have page numbers in GREEN.



### On the cover

A 3D reconstruction of the different membrane compartments of a budding yeast cell. Klemm et al. devise new methods to purify secretory vesicles (red) and Golgi/endosomes (yellow), and analyze their lipid composition, suggesting a mechanism for both protein and lipid sorting at the trans-Golgi network.  
**See page 601.**

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**VE-PTP controls blood vessel development by balancing Tie-2 activity**

Mark Wunderlich, Linda Keller, Giuseppe Cagna, Andre Broermann, Olena Kamenyeva, Friedemann Kiefer, Urban Deutsch, Astrid F. Nottebaum, and Dietmar Vestweber

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**The recycling and transcytotic pathways for IgG transport by FcR $\eta$  are distinct and display an inherent polarity**

Salit Tzabari, Ramiro H. Massol, Elizabeth Yen, Wendy Hamman, Scott R. Frank, Lynne A. Lapierre, Steen H. Hansen, James R. Goldenring, Richard S. Blumberg, and Wayne I. Lencer

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**Regulation of glutamate receptor subunit availability by microRNAs**

Julie Karr, Vasia Vagin, Kaiyun Chen, Subhashree Ganesan, Oxana Olenkina, Vladimir Gvozdev, and David E. Featherstone

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**Integrin-mediated axoglial interactions initiate myelination in the central nervous system**

Joana Câmara, Zhen Wang, Cristina Nunes-Fonseca, Hana C. Friedman, Matthew Grove, Diane L. Sherman, Noboru H. Komiyama, Seth G. Grant, Peter J. Brophy, Alan Peterson, and Charles ffrench-Constant

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**Nemo kinase interacts with Mad to coordinate synaptic growth at the *Drosophila* neuromuscular junction**

Carlos Merino, Jay Penney, Miranda González, Kazuya Tsurudome, Myriam Moujahidine, Michael B. O'Connor, Esther M. Verheyen, and Pejmun Haghghi

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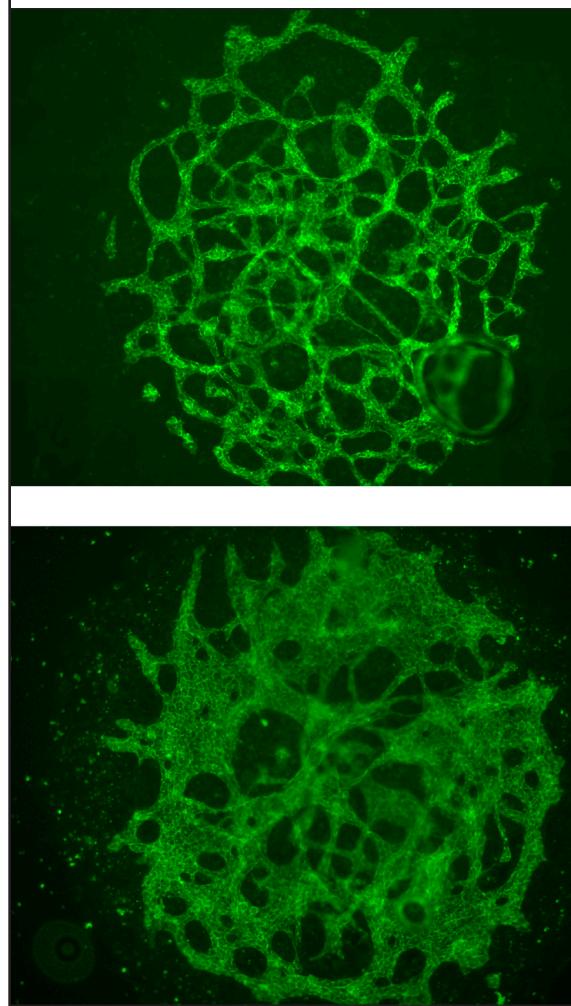
**Pro-BDNF-induced synaptic depression and retraction at developing neuromuscular synapses**

Feng Yang, Hyun-Soo Je, Yuanyuan Ji, Guhan Nagappan, Barbara Hempstead, and Bai Lu

**743**

**Decorin is a novel antagonistic ligand of the Met receptor**

Silvia Goldoni, Ashley Humphries, Alexander Nyström, Sampurna Sattar, Rick T. Owens, David J. McQuillan, Keith Ireton, and Renato V. Iozzo



Antibodies against the receptor tyrosine phosphatase VE-PTP cause the enlargement of vascular structures in mouse extra-embryonic allantois membranes (bottom). Wunderlich et al. find that VE-PTP keeps endothelial cell proliferation in check by balancing the activity of another receptor called Tie-2. See page 657.