

NEWS

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- To build a node

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- Building blood vessels—stem cell models in vascular biology
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- Reciprocal inhibition between Pax7 and muscle regulatory factors modulates myogenic cell fate determination
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- DA-Raf1, a competent intrinsic dominant-negative antagonist of the Ras–ERK pathway, is required for myogenic differentiation
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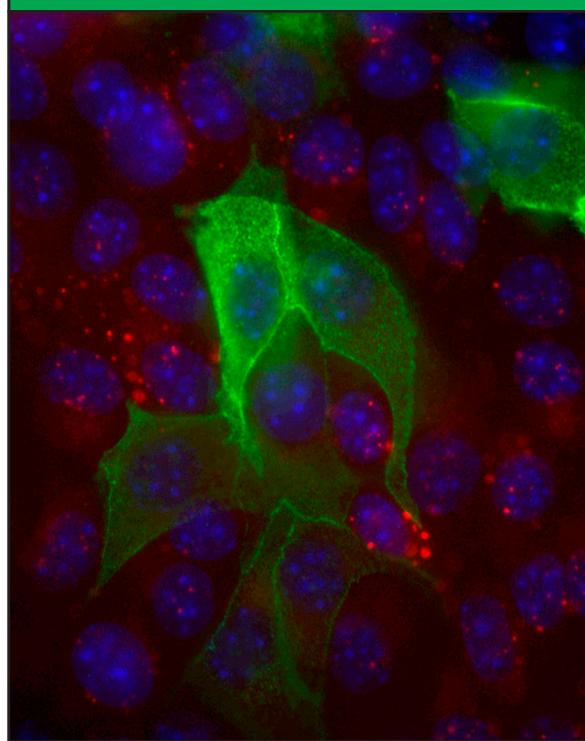
- p38 MAPK-dependent shaping of the keratin cytoskeleton in cultured cells
Stefan Wöll, Reinhard Windoffer, and Rudolf E. Leube

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- Essential role of PI3-kinase and phospholipase A2 in *Dictyostelium discoideum* chemotaxis
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- An essential role for the SHIP2-dependent negative feedback loop in neuritogenesis of nerve growth factor–stimulated PC12 cells
Kazuhiro Aoki, Takeshi Nakamura, Takanari Inoue, Tobias Meyer, and Michiyuki Matsuda



On the cover

Merlin (green) blocks EGF (red) by locking its receptor in a membrane compartment from which it cannot signal or be internalized.
See page 893.

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- Syndecan-2 induces filopodia and dendritic spine formation via the neurofibromin–PKA–Ena/VASP pathway
Yi-Ling Lin, Ya-Ting Lei, Chen-Jei Hong, and Yi-Ping Hsueh

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- The Ig cell adhesion molecule Basigin controls compartmentalization and vesicle release at *Drosophila melanogaster* synapses
Florence Besse, Sara Meriel, Robert J. Kittel, Carolin Wichmann, Tobias M. Rasse, Stephan J. Sigrist, and Anne Ephrussi

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- Nodes of Ranvier and axon initial segments are ankyrin G-dependent domains that assemble by distinct mechanisms
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- $\alpha_4\beta_1$ integrin and erythropoietin mediate temporally distinct steps in erythropoiesis: integrins in red cell development
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- Regulation of connexin43 gap junctional communication by phosphatidylinositol 4,5-bisphosphate
Leonie van Zeijl, Bas Ponsioen, Ben N.G. Giepmans, Aafke Ariaens, Friso R. Postma, Péter Várnai, Tamas Balla, Nullin Divecha, Kees Jalink, and Wouter H. Moolenaar

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- Contact-dependent inhibition of EGFR signaling by Nf2/Merlin
Marcello Curto, Banumathi K. Cole, Dominique Lallemand, Ching-Hui Liu, and Andrea I. McClatchey

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- Ubiquitination differentially regulates clathrin-dependent internalization of protease-activated receptor-1
Breann L. Wolfe, Adriano Marchese, and JoAnn Trejo

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- Three-dimensional architecture of murine rod outer segments determined by cryoelectron tomography
Stephan Nickell, Paul S.-H. Park, Wolfgang Baumeister, and Krzysztof Palczewski

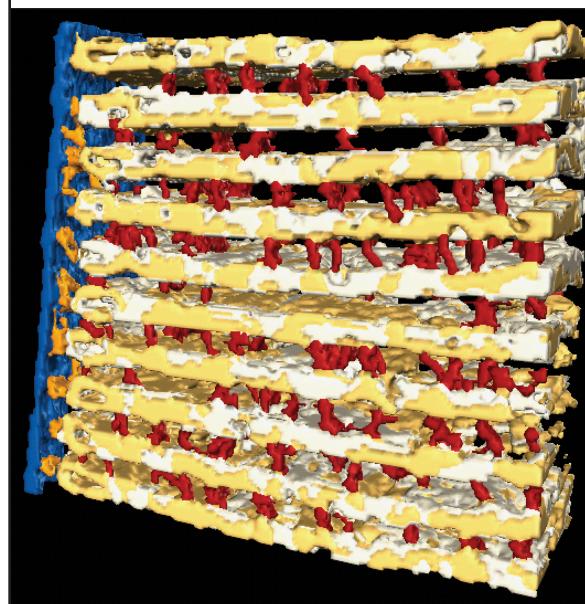
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- uPAR-induced cell adhesion and migration: vitronectin provides the key
Chris D. Madsen, Gian Maria Sarra Ferraris, Annapaola Andolfo, Orla Cunningham, and Nicolai Sidenius

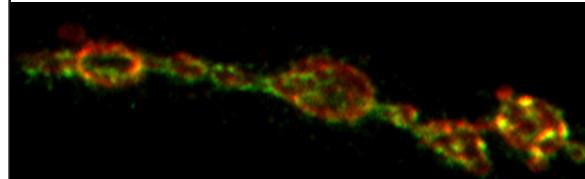
Corrections

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- Motoring microvillar membrane
Kendall Powell



Cryo-ET of the rod outer segment discs (yellow) and plasma membrane (blue) reveals spacers that maintain distance between adjacent discs (red) and between discs and membrane (orange).
See page 917.



Basigin (green) is an Ig domain-containing protein that regulates synaptic strength and compartmentalization at neuromuscular junctions.
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