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Cover picture: The micrograph shows Schizosaccharomyces pombe mutants, stained with Calcofluor to visualize the cell wall, which are defective in cell shape and polarity. These mutants identify 19 independent genes with different morphogenetic functions during the cell cycle. See the related article in this issue by Verde et al., 1529-1538.
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Cover picture: Adult cardiomyocytes were injected as beating cells with an expression plasmid containing γ-cytoplasmic actin provided with an epitope tag. After further incubation, beating stopped and the cell structures were analyzed. The epitope was stained with specific antibody and visualized with RITC (red) while myomesin served as a marker for assembled sarcomeric M bands (green). The actin organization in the transfected cell is changed by the expression of the cytoplasmic actin isoform. See related article in this issue by von Arx et al., 1759–1773.
The assembly of integrin adhesion complexes requires both extracellular matrix and intracellular rho/rac GTPases.

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A role for phosphatidylinositol 3-kinase in the regulation of β1 integrin activity by the CD2 antigen.


The L1 adhesion molecule is a cellular ligand for VLA-5.

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P-selectin must extend a sufficient length from the plasma membrane to mediate rolling of neutrophils.


Collagen and collagenase gene expression in three-dimensional collagen lattices are differentially regulated by α1β1 and α2β1 integrins.

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