In Brief
Controlling actin. Doing without acetylcholinesterase. Multiple regulators of one kinesin motor.
W.A. Wells

Regular Articles
1083 Roles of LAP2 proteins in nuclear assembly and DNA replication: Truncated LAP2β proteins alter lamina assembly, envelope formation, nuclear size, and DNA replication efficiency in *Xenopus laevis* extracts.
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1097 A conserved biogenesis pathway for nucleoporins: Proteolytic processing of a 186-kilodalton precursor generates Nup98 and the novel nucleoporin, Nup96.
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1113 Dynamics of myoblast transplantation reveal a discrete minority of precursors with stem cell–like properties as the myogenic source.
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1135 Golgi structure in three dimensions: Functional insights from the normal rat kidney cell.
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1151 Involvement of Pex13p in Pex14p localization and peroxisomal targeting signal 2–dependent protein import into peroxisomes.
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1163 Recombinant major vault protein is targeted to neuritic tips of PC12 cells.
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1173 Fission yeast α-glucan synthase Mok1 requires the actin cytoskeleton to localize the sites of growth and plays an essential role in cell morphogenesis downstream of protein kinase C function.
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1187 A Cdc24p-Far1p-Gβγ protein complex required for yeast orientation during mating.
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1245 Role of proteins of the Ena/VASP family in actin-based motility of *Listeria monocytogenes*.
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1259 Extensive but coordinated reorganization of the membrane skeleton in myofibers of dystrophic (mdx) mice.
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1271 Endocytic sorting of lipid analogues differing solely in the chemistry of their hydrophobic tails.
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Cover picture: Model of a portion of the Golgi ribbon from a fast-frozen, freeze-substitution–fixed NRK cell. This model was built from 257 tomographic slices of a dual-axis high voltage EM tomogram and includes a volume of ~1 × 1 × 4 μm. The top figure depicts a side view (cis top) and the bottom figure a cis side view of two Golgi stacks separated by a noncompact region. Elements of the ER-Golgi intermediate compartment are colored yellow; cisternae of the cis and trans ER are blue-gray, while the polycyomes are purple dots; the different Golgi cisternae are dark green, dark blue, dark pink, light green, light pink, gold, and red. Coated budding structures are seen on all cisternae (non-clathrin coated, clathrin coated, non-coated) that were observed within 0.2 μm of the cisternal membranes. See related article in this issue by Ladinsky et al., 1135–1149.
A role for caveolin and the urokinase receptor in integrin-mediated adhesion and signaling.
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