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Wee et al. describe how the Ran GTPase and its effector protein Canoe orient the mitotic spindle by recruiting the dynein adaptor protein Mud to the cell cortex. The central cluster of cells shows a mitotic spindle (red) aligned toward a cortical patch of the apical protein Pins (green). The surrounding cell clusters show misoriented spindles in the absence of Canoe and Mud. Images courtesy of Brett Wee. See page 369.

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Phosphorylation at serine 331 is required for Aurora B activation
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Brr6 drives the Schizosaccharomyces pombe spindle pole body nuclear envelope insertion/extrusion cycle
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Actin filament severing by coflin is more important for assembly than constriction of the cytokinetic contractile ring
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The C terminus of talin links integrins to cell cycle progression
Pengbo Wang, Christoph Ballestrem, and Charles H. Streuli

Single-channel Ca\(^{2+}\) imaging implicates A\(\beta\)1–42 amyloid pores in Alzheimer’s disease pathology
Angelo Demuro, Martin Smith, and Ian Parker

Clathrin phosphorylation is required for actin recruitment at sites of bacterial adhesion and internalization
Matteo Bonazzi, Lavanya Vasudevan, Adeline Mallet, Martin Sachse, Anna Sartori, Marie-Christine Prevost, Allison Roberts, Sabrina B. Taner, Jeremy D. Wilbur, Frances M. Brodsky, and Pascale Cossart

Bonazzi et al. report that clathrin phosphorylation recruits actin to sites of bacterial-host cell adhesion to drive pathogen internalization. The electron micrograph shows numerous clathrin-coated pits surrounding a Listeria innocua bacterium as it enters a host cell. Image © 2011 Bonazzi et al.

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