The internalization of macromolecules from the extracellular environment is critical for the normal growth and development of all cells. Components of the endocytic machinery direct this process and must bind and bend the relatively flat surface of the cell to generate highly curved transport carriers. In this image, tubulation of synthetic liposomes is observed upon incubation with a new membrane-binding and -bending module, the EH domain of the endocytic scaffolding protein Eps15. In their article on p. 2675 of the September 1, 2016, issue of MBoC, Wang et al. demonstrate that membrane bending mediated by Eps15 functions in concert with another factor, Fcho1, to initially sculpt endocytic transport carriers. (Image: Michael Hanna and Anjon Audhya, University of Wisconsin, Madison)