A quantitative imaging-based screening approach identifies mutants affecting the spatial organization of endo- and exocytic trafficking domains. The organization of endocytic (red) and exocytic (cyan) vesicles is shown in the four cells on the left. Clockwise from top left: a control cell, a mutant defective in endocytic vesicle organization (she4Δ), a mutant defective in exocytic vesicle organization (bud6Δ), and a mutant defective in endo- and exocytic vesicle organization (bud32Δ). The image on the right shows high-density vesicle tracking of endocytic (red) and exocytic (cyan) vesicles in a control cell. See the article by Jose et al. on p. 2519 of the July 1, 2015, issue of MBoC. (Image: Mini Jose, European Institute of Chemistry and Biology, Bordeaux, France)