



**legend** Yellow and red fluorescence represents acridine orange-stained secondary cell walls and chloroplastic autofluorescence, respectively. The 3D image was reconstructed from optical sections obtained on a confocal microscope (FV500, Olympus). Scale bar represents 20  $\mu\text{m}$ .

**advisors** Ariel Ruiz i Altaba (Developmental Genetics Program, New York University Medical Center, NY) & Lelio Orci (Department of Morphology, University Medical Center, Geneva, Switzerland).