

**Supplementary info 8:** Non-merged confocal microscopy images of pea and lupin samples, after HPH treatment. Left picture: green channel, for the fluorescence of proteins marked with Alexa 488. Central picture: red channel, for the fluorescence of lipids marked with Nile Red. Right picture: merged channels. Scale bars are of 50  $\mu\text{m}$  for PPI and LPI, and 25  $\mu\text{m}$  for PPC and LPC.

