

**Supplementary Figure 1.** Nuclei number in the different cell layers from *amadria* cork sample. Nucleus were grouped in classes according to its area ( $[<15[$ ,  $[15;25[$ ,  $[>25[$   $\mu\text{m}^2$ ) since semi-thin sections of GMA ( $2\ \mu\text{m}$ ) led to the segmentation of each nucleus. TZ – tear zone (the region where the cork planks were detached from the tree); c1, c2, c3, and c4 are the cork cell layers from phellogen to the outermost layers according to its age, being c1 the most recently formed and c5 the older cork cell layer.

