

SUPPLEMENTARY DATA

Seed moisture content

Moisture contents of *Sinojackia xylocarpa* Hu drupe and seed were determined by weighting triplicate samples before and after drying at 113°C to constant weight. Moisture contents are expressed on a DW basis. The initial moisture content of the mature dry drupe, peel and seed was 22.46%, 10.08% and 7.67% respectively, by weighting triplicate samples before and drying at 113 °C to constant weight. Based on fresh weight, mature drupe contains approximately 1.74 capsules per gram. Water content in drupes and seeds was determined in the hydration experiment. Results of gravimetric method are shown in Fig. 1(points). The hydration experiment was carried out during 772 h. As it is seen in Fig. 2 the overall uptake of the water into seeds, determined in the hydration experiment, is well characterized by an exponent law. Results of theoretical fitting of the experimental points are shown in Figure 1 as full lines, the drupes and seeds are reaching saturation at 100 h of swelling. Time course analyses of water uptake during imbibition up to 772h show that this process is biphasic (Fig. 1). At stage I (imbibition) water enters the seed at a relatively high and an even rate. Imbibition is followed by phase II plateau with the drupe and seed moisture content approximately 37.14% and 67.82% water per FW.

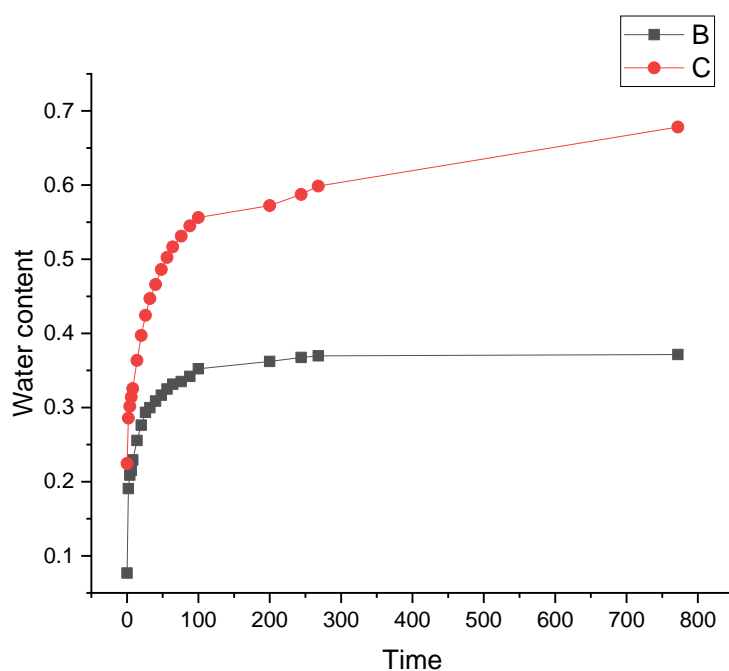


Fig.1. Time course analyses of water content during *Sinojackia xylocarpa* Hu drupe and seed imbibition. (B) drupe water content (C) seed water content.