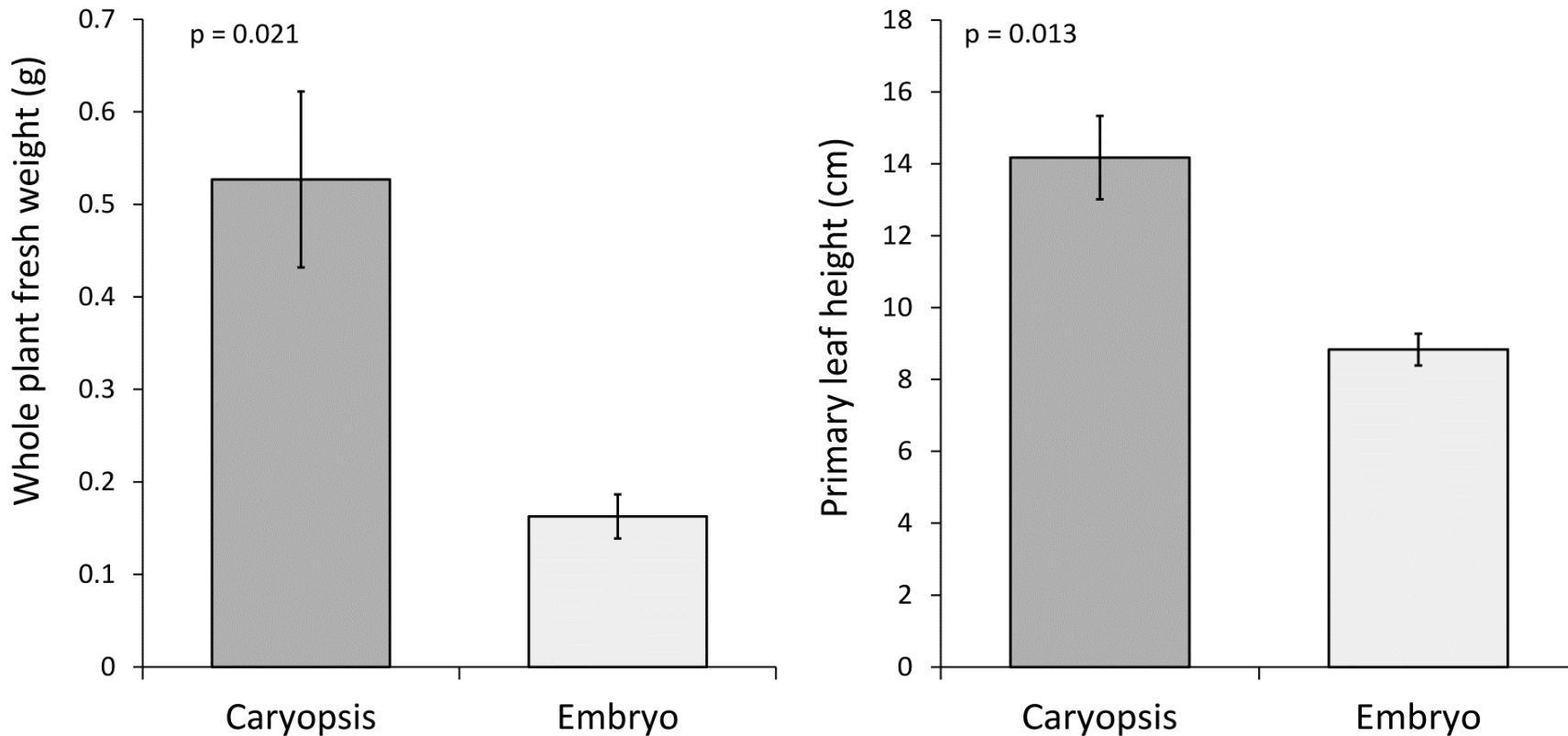


Wheat seed embryo excision enables the creation of axenic seedlings and Koch's postulates testing of putative bacterial endophytes

Rebekah J Robinson, Bart A Fraaije, Ian M Clark, Robert W Jackson, Penny R Hirsch & Tim H Mauchline

Supplementary Figure 1A and 1B

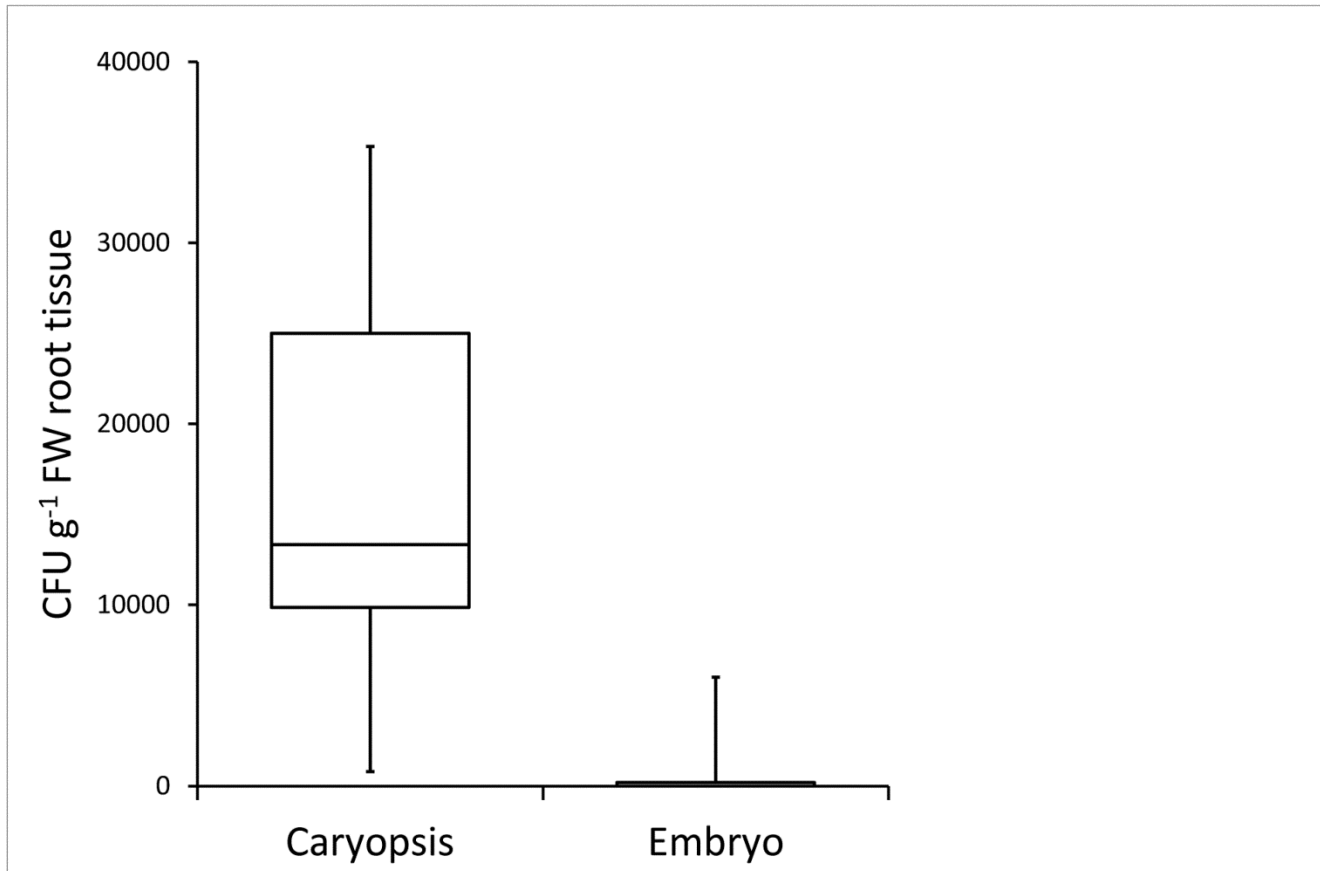


Supplementary Figure 1 Comparative growth of wheat seedlings grown from whole caryopses and excised embryos. A. Mean whole plant fresh weight. B. Mean primary leaf height. Mean values are calculated from 3 biological replicates (9 seedlings) at 3 weeks post imbibition. Significant differences are indicated with star ($p < 0.05$, two sample t-test). C. Growth at 3 weeks post imbibition i) Seed grown seedlings ii) Embryo grown seedlings

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Supplementary Figure 2



Supplementary Figure 2 Abundance of endophytes recovered from surface sterile root tissue of wheat seedlings grown from whole caryopses and excised embryos. Endophyte abundance measured in 9 biological replicates (3 seedlings in each biological unit). Box limits indicate Q1, median and Q3 values; whiskers indicate maximum and minimum values. Mann Whitey U, $p < 0.01$.