

SUPPLEMENTARY MATERIAL

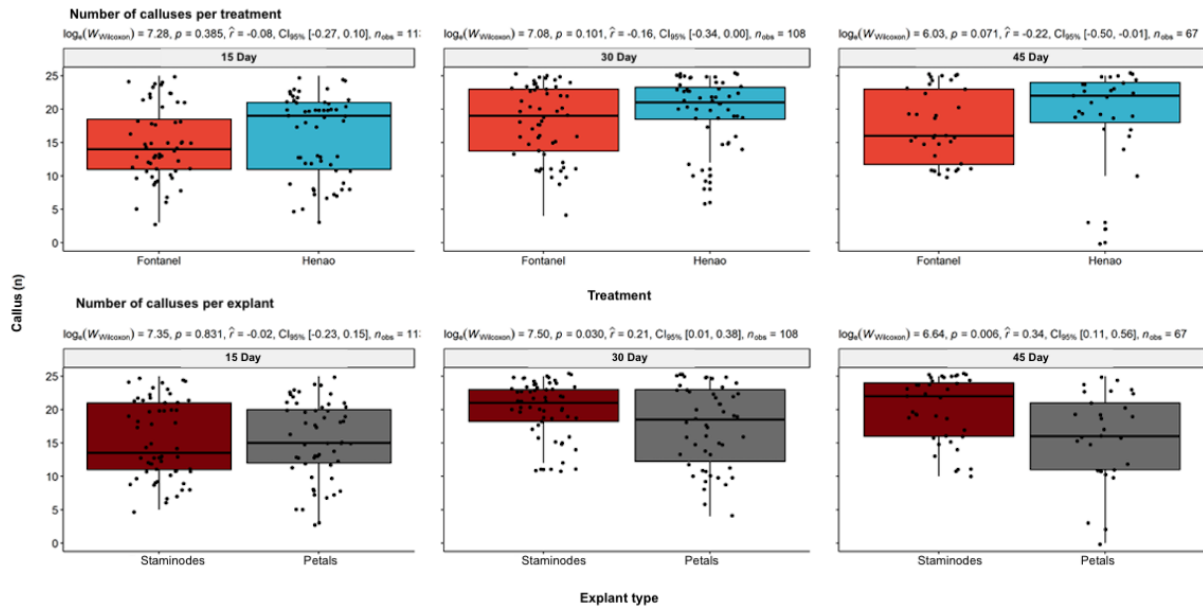


Figure S1. Effect on induction stage of culture medium, explant type and time in induction medium on the total number of callus obtained in Fontanel et al. (2002) (F) and Henao et al. (2018) (H) protocols at 15, 30 and 45 days of culture.

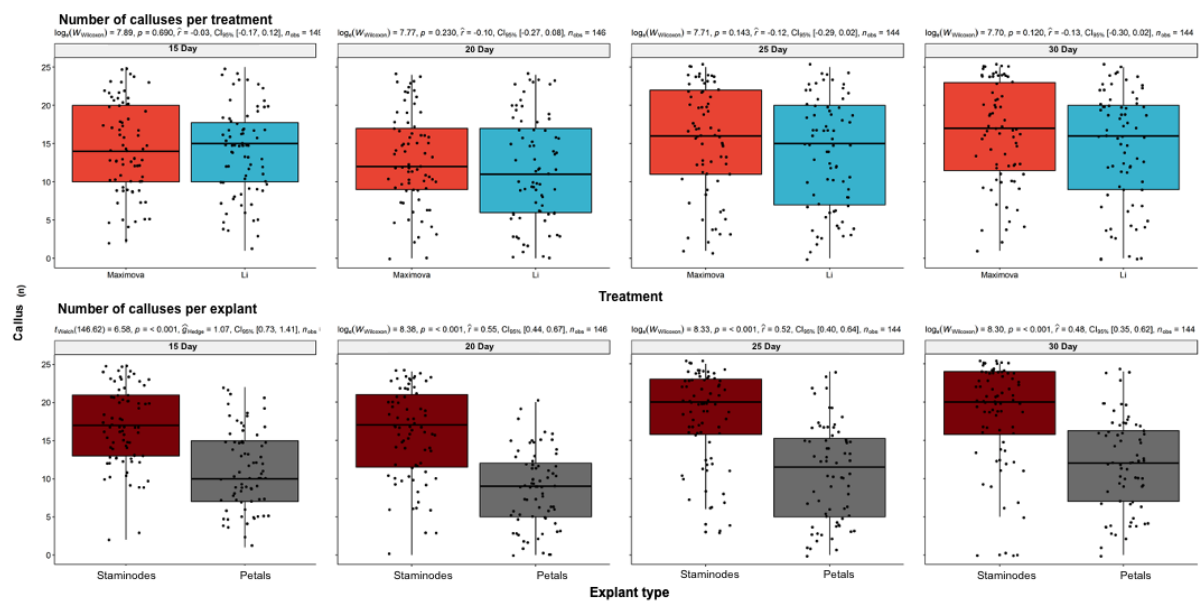


Figure S2. Effect on induction stage of culture medium, explant type and time in induction medium on the total number of callus obtained in Maximova et al. (2002) (M) and Li et al. (1998) (L) protocols at 15, 20, 25 and 30 days of culture.

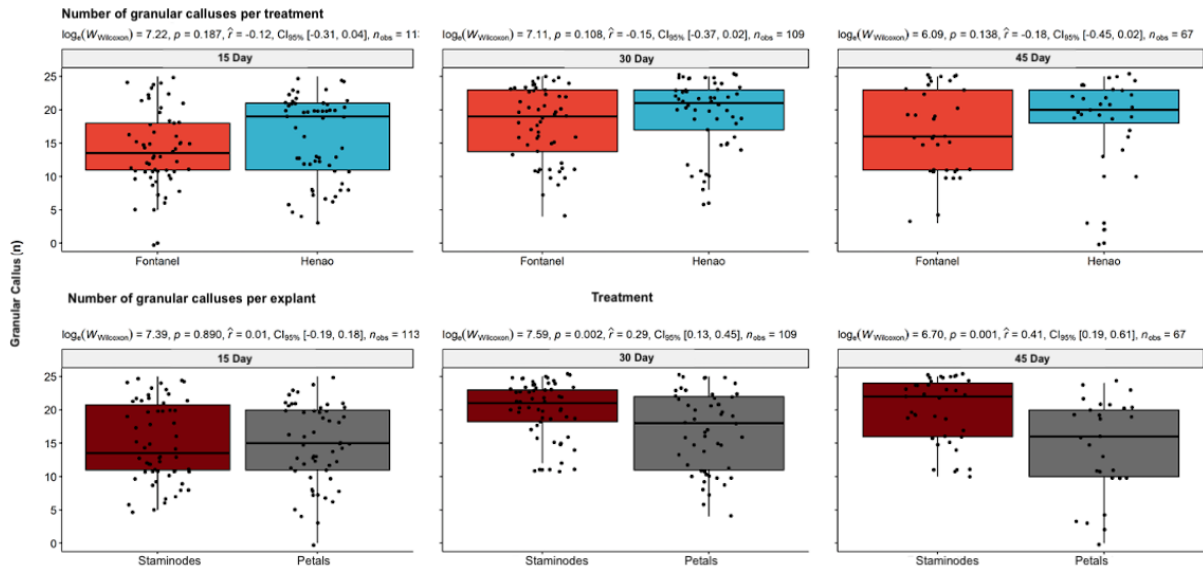


Figure S3. Effect on induction stage of culture medium, explant type and time in induction medium on the total number of granular callus obtained in Fontanel et al. (2002) (F) and Henao et al. (2018) (H) protocols at 15, 30, 25 and 45 days of culture.

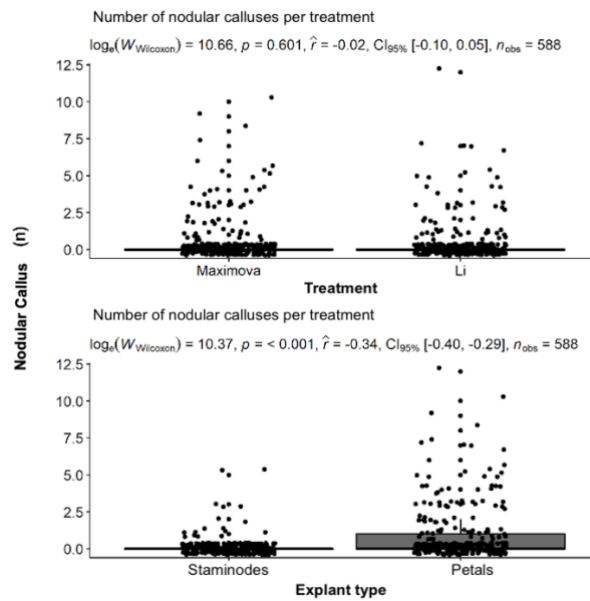


Figure S4. Effect on induction stage of culture medium and explant type on the total number of nodular callus obtained in Maximova et al. (2002) (M) and Li et al. (1998) (L) protocols.

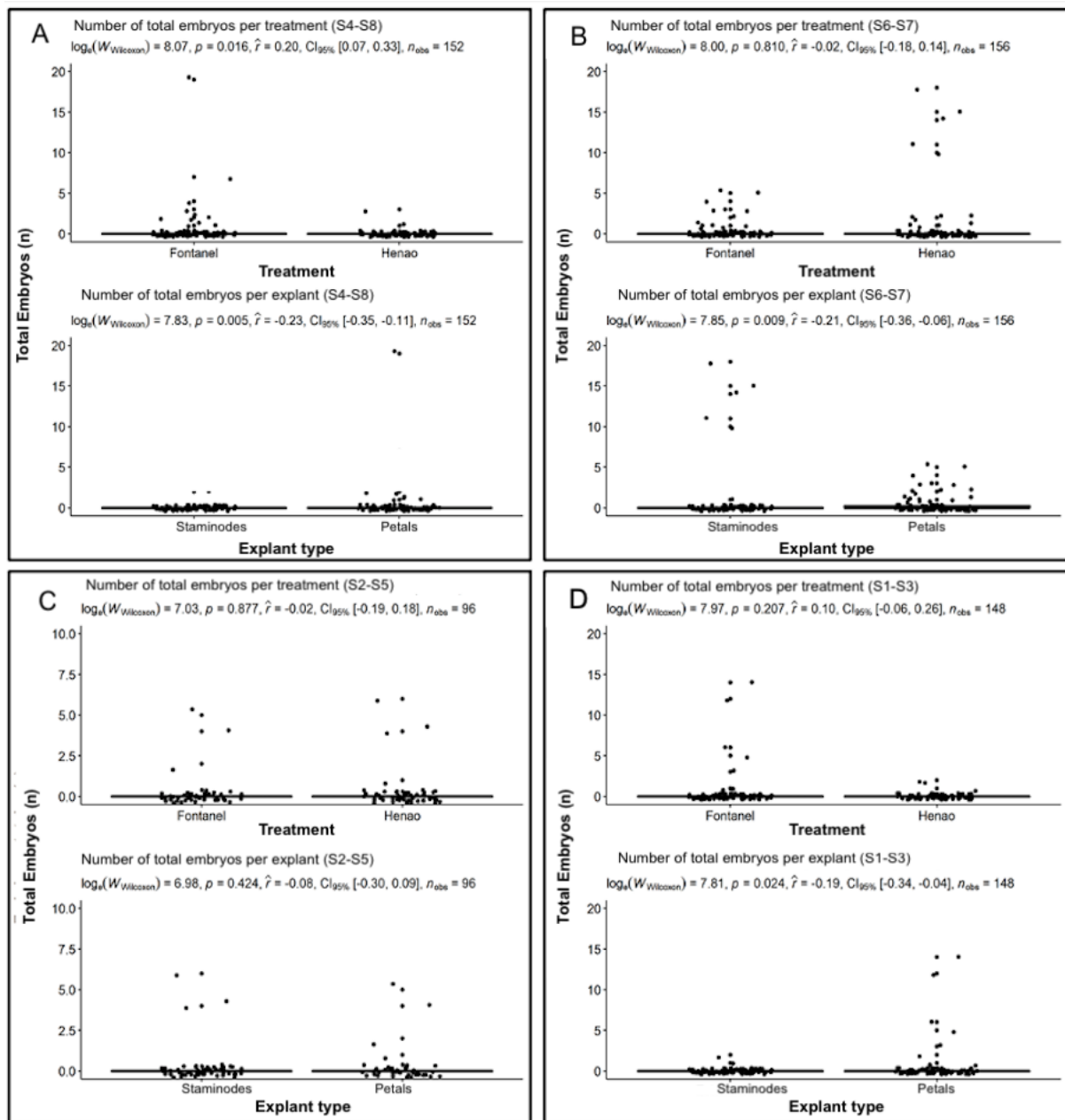


Figure S5. Effect on the stage of expression of the culture medium, type of explant and time spent in the induction medium on the total number of somatic embryos obtained in treatments F and H. Where S4-S8 corresponds to 15 days (A), S6-S7 corresponds to 30 days (B), S2-S5 corresponds to 45 days (C) and S1-S3 to 60 days (D).

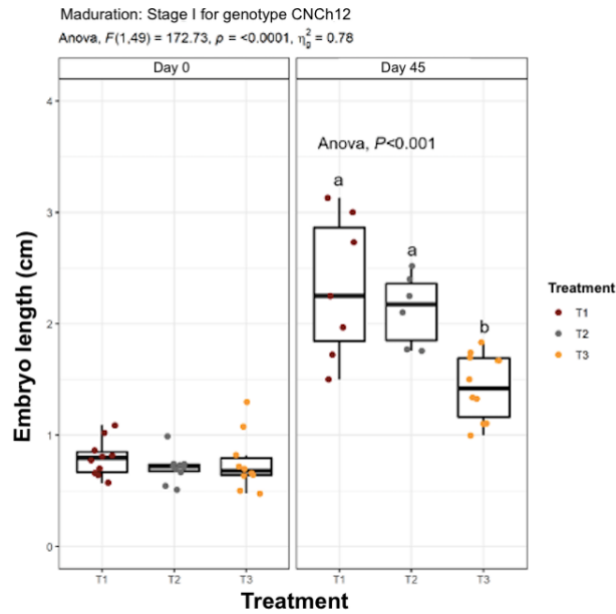


Figure S6. Stage I for genotype *CNCh-12*. Embryo length from EM2 medium in the different treatments. T1: $\frac{1}{5}$ MS salts, T2: $\frac{1}{4}$ MS salts, T3: $\frac{1}{2}$ MS salts, after 45 days of culture on MM6 medium.

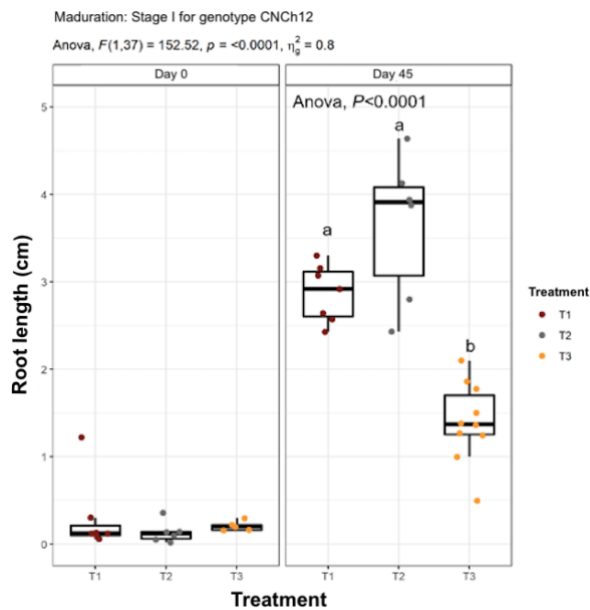


Figure S7. Stage I for genotype *CNCh-12*. Root length of embryo from EM2 medium in the different treatments. T1: $\frac{1}{5}$ MS salts, T2: $\frac{1}{4}$ MS salts, T3: $\frac{1}{2}$ MS salts, after 45 days of culture on MM6 medium.

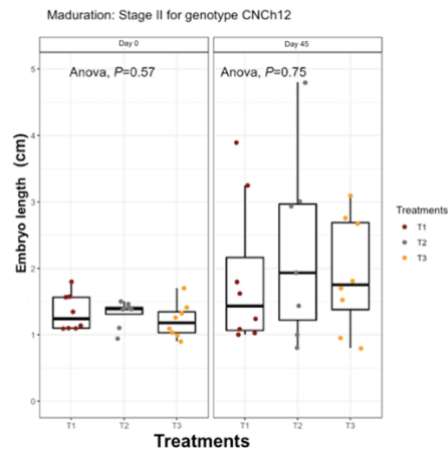


Figure S8. Stage II for genotype *CNCh-12*. Embryo length from EM2-MM6 medium in the different treatments. T1: $\frac{1}{5}$ MS salts, T2: $\frac{1}{4}$ MS salts, T3: $\frac{1}{2}$ MS salts, after 45 days of culture on MM6 medium.

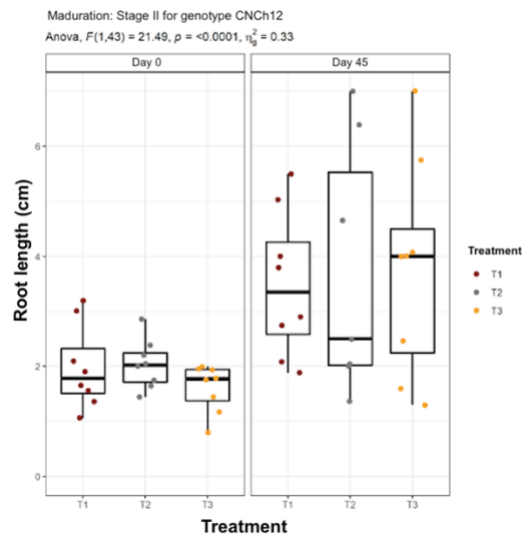


Figure S9. Stage II for genotype *CNCh-12*. Root length of embryo from EM2-MM6 medium in the different treatments. T1: $\frac{1}{5}$ MS salts, T2: $\frac{1}{4}$ MS salts, T3: $\frac{1}{2}$ MS salts, after 45 days of culture on MM6 medium.

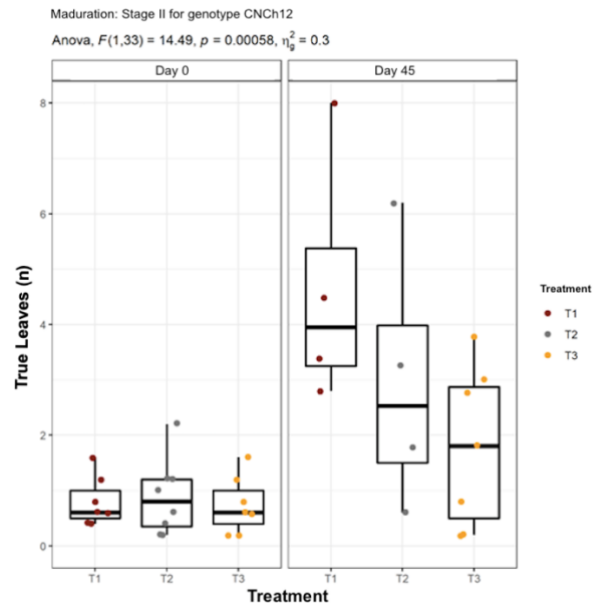


Figure S10. Stage II for genotype *CNCh-12*. Number of true leaves of the embryo from EM2-MM6 medium in the different treatments. T1: $\frac{1}{5}$ MS salts, T2: $\frac{1}{4}$ MS salts, T3: $\frac{1}{2}$ MS salts, after 45 days of culture on MM6 medium.