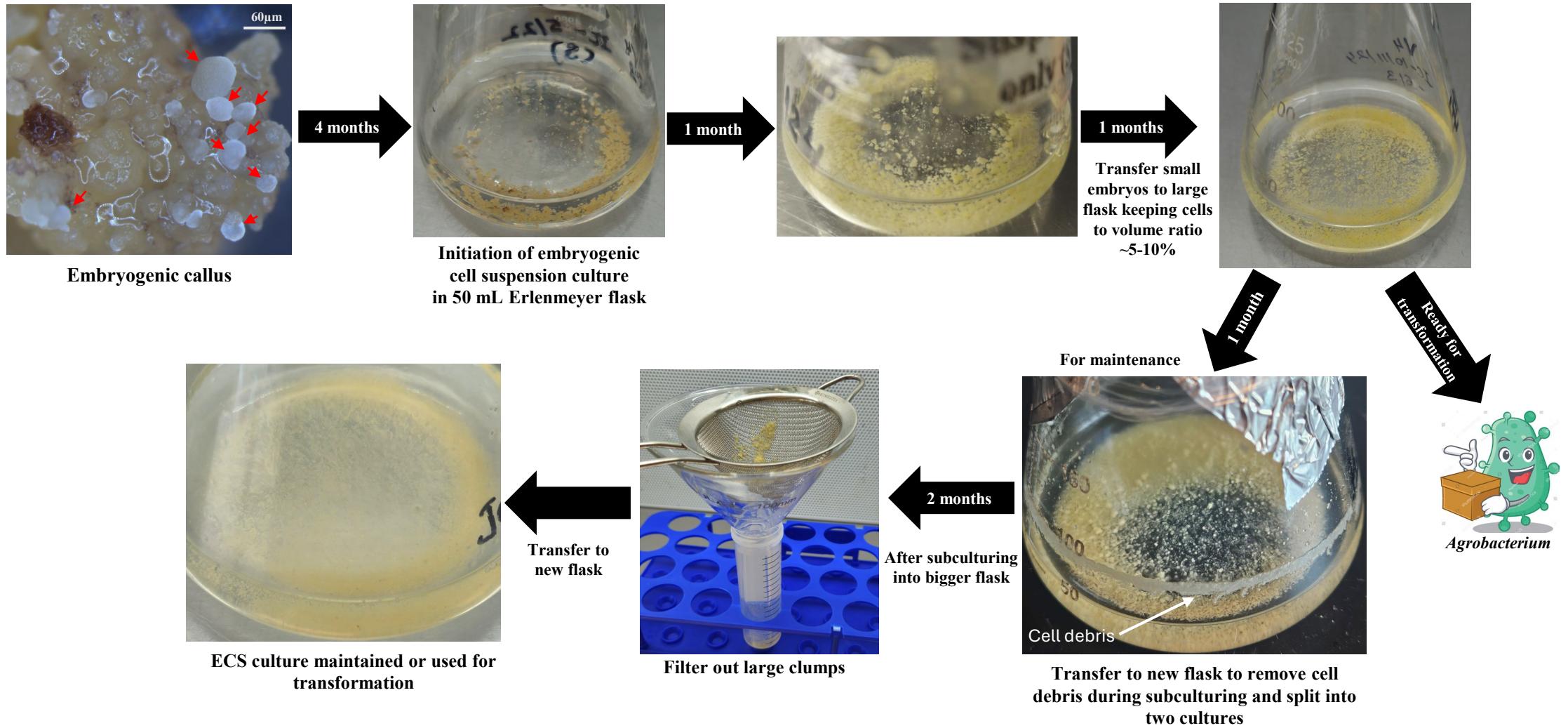
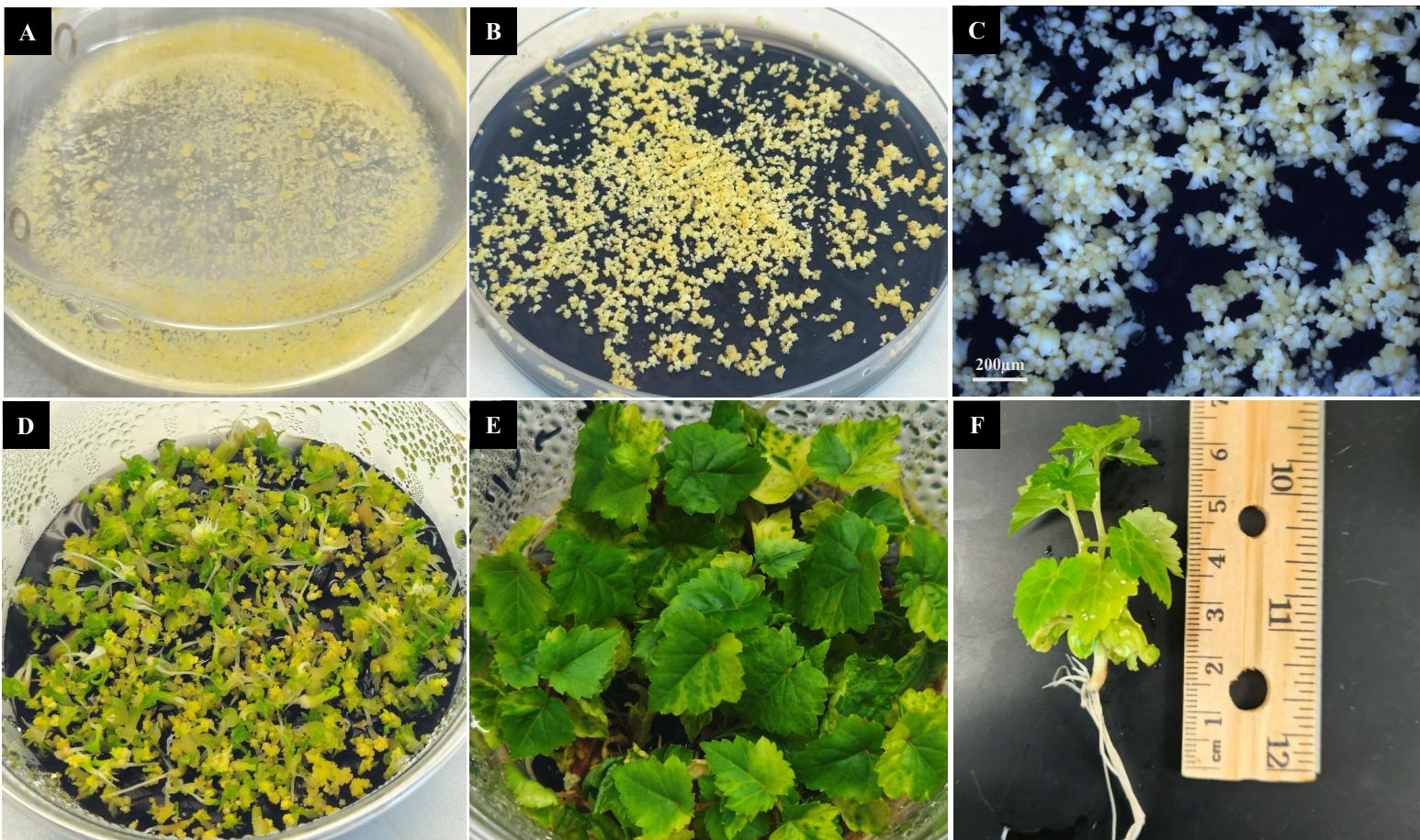




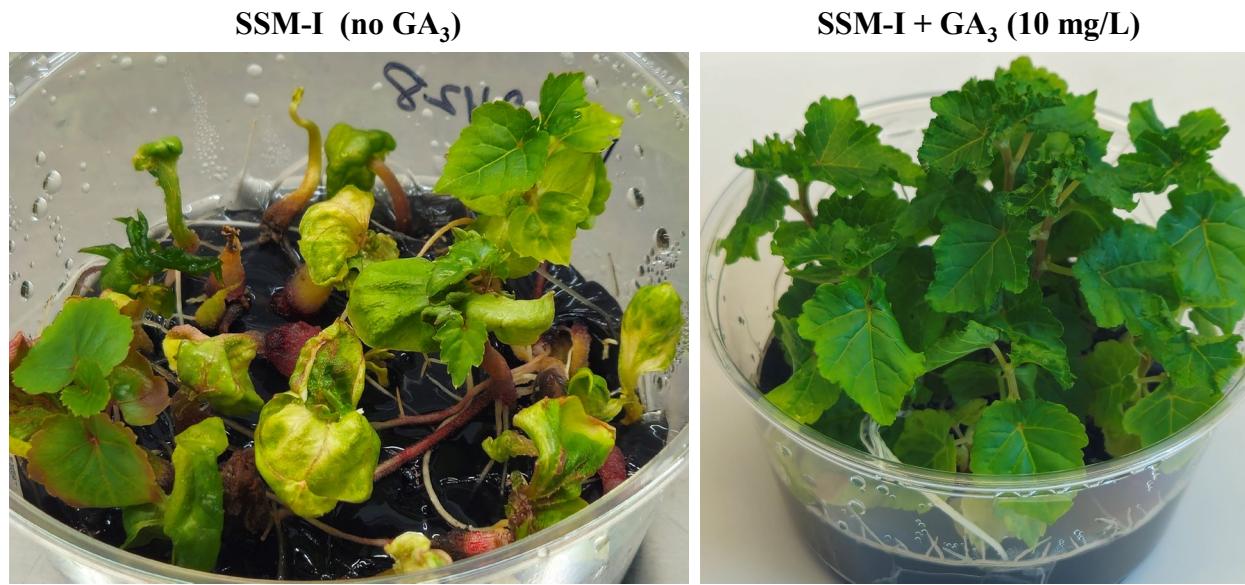
**Figure S1 Undesired part of callus for suspension culture initiation.** **A &B** Compact pieces of callus that produce a non-embryogenic browning suspension culture. **C** Browning of non embryogenic culture within one month of culture initiation.



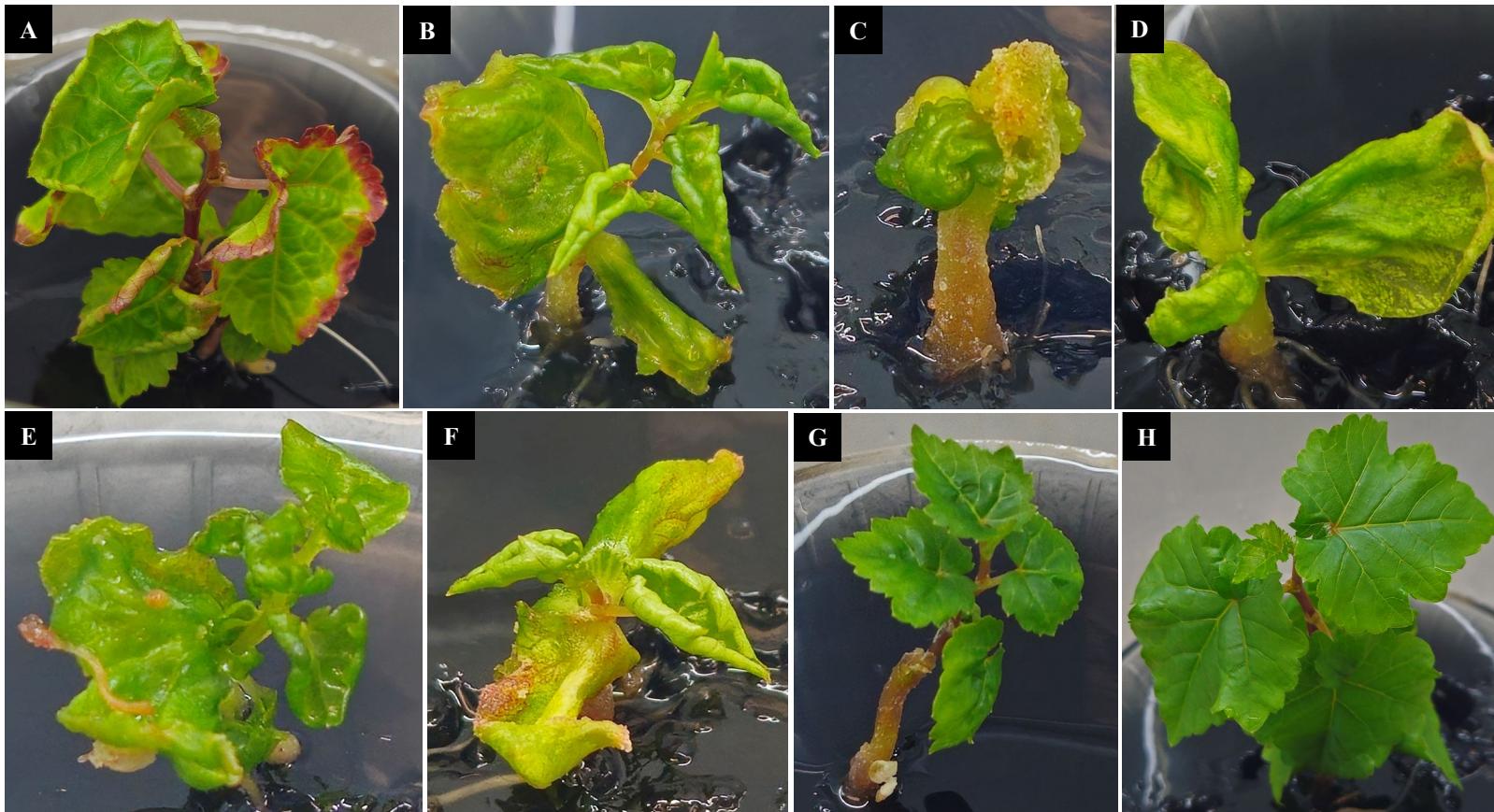
**Figure S2: ECS establishment and maintenance**



**Figure S3 Development of microvine plants from non-transformed ECS to check regeneration.** **A** Embryogenic cell suspension culture. **B** Suspension cells (~1 mL) 50 days post on EDM semi-solid media. **C** Magnified view of somatic embryos. **D** Growth of mature somatic embryos 15 days after subculturing on SSM medium. **E** Growing plantlets 20 days after subculturing on SSM-I. **F** A regenerated plant ready for transfer to soil.



**Figure S4 Transgenic plant development improves with the addition of  $\text{GA}_3$ .**



**Figure S5** **A-F** Transgenic shoots showing abnormal morphology and growth. **G** and **H** Normally growing shoots.