Supplementary Table S3. Study on in vitro production methods of Gloriosa superba L. via indirect organogenesis in various callus-derived explants [1]*.

Sr. No	Explant(s) of interest	The best treatment for callus induction	Final goal	Best treatment for achieving the final goal	Shoot initiation percentage (%)
1	Roots	MS basal media + 4.52 μM 2,4-D + 2.32 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	Shoot morphogenesis	MS basal media + 9.84 μM 2iP + 1.16 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	-
2	Young leaves	MS basal media + 4.52 μM 2,4-D + 2.32 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	Shoot morphogenesis	MS basal media + 2iP 9.84 μM + ADS 5.44 μM Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	-
3	Stems	MS basal media + 4.52 μM 2,4-D + 2.32 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	Shoot morphogenesis	MS basal media + 4.44 μM BA + 4.64 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	-
4	Pedicels	MS basal media + 4.52 μM 2,4-D + 2.32 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	Shoot morphogenesis	 8.88 μM BA + 9.28 μM KN (more shoots developed but they were not healthy) 5.44 μM ADS + 9.28 μM KN (less shoots developed but they were healthier) 	-
5	Corm buds (dormant and non-dormant)	MS basal media + 4.52 μM 2,4-D + 2.32 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8,	Shoot morphogenesis	MS basal media + 9.84 μM 2iP + 4.64 μM KN Media conditions: 2.5% sucrose, 0.8% (w/v) agar, pH of 5.8,	-

		23±1°C, 16/8-hour light/dark		23±1°C, 16/8-hour light/dark	
6	Shoot tips	MS basal media + 4.52 μM 2,4-D + 2.32 μM KN	Shoot morphogenesis	MS basal media + 17.76 μM BA + 2.32 μM Kin	-
		Media conditions:		Media conditions:	
		2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark		2.5% sucrose, 0.8% (w/v) agar, pH of 5.8, 23±1°C, 16/8-hour light/dark	

^{*} Sterilized seeds were placed on MS basal medium supplemented with 1% sucrose, 1.44 μ M GA₃, and 4.44 μ M BA. For germination, such seeds were incubated at 24 \pm 2°C and 16-h photoperiod, with a photosynthetic photon flux of approximately 70 μ mol m⁻² s⁻¹. After germination, the seedlings were subcultured every 2 weeks for the production of erect shoots, and finally, the plants were maintained on MS medium supplemented with 2.72 μ M adenine sulfate (ADS). Explants for micropropagation were taken from such plants.

(-) means data was not documented in the study

REFERENCE

[1] Sivakumar G, Krishnamurthy KV. 2004. *In Vitro* Organogenetic Responses of *Gloriosa superba*. *Russian Journal of Plant Physiology* 51:713–721. doi: 10.1023/B:RUPP.0000040761.45363.75.