Perbanyakan Benih Jahe Secara in vitro Melalui Embriogenesis Somatic

Propagation of Ginger Seeds In vitro Through Somatic Embryogenesis

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Plant propagation through in vitro tissue culture techniques has the potential to support the procurement of seeds of pathogen-free in large quantities. Meanwhile, embryosomatic induction can eliminate the genetic changes induced by induction of direct shoots or callus phases in the in vitro culture process so that it will produce a new plant that identical to the parent. The regeneration system of somatic embryogenesis in ginger is done by using meristem explant source in 5 stages of development, from the stage of formation of globular embryo structure to the optimum planlet, by determining the composition of growth medium and growth regulator (ZPT) in culture stage. The advantages of this invention are to obtain a healthy disease-free ginger propagation protocol with normal rhizome size through tissue culture, and be able to provide a media formulation for the propagation of ginger seeds through in vitro.