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A key step in somatic embryogenesis is the transition of cell fate from a somatic cell to embryo cell. Although somatic embryogenesis has already been widely used in a number of woody species, propagating adult woody plants remains difficult. In this review, we focus on molecular mechanisms of somatic embryogenesis and its practical applications in economic woody plants. Furthermore, we propose a strategy to improve the process of somatic embryogenesis using molecular means.

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and proliferation, embryo maturation and germination, and sincere effort has been made to improve somatic embryo-genesis in many woody plants, more on the maturation

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On the one hand, somatic embryogenesis associated genes could serve as biomarkers for somatic embryogenesis in woody plant tissue to further determine embryogenic initiating competence, particularly for markers that are differentially expressed between embryogenic and non-embryogenic tissue. On the other hand, ectopic expression of somatic embryogenesis associated genes would enhance somatic cell embryogenic potential by transient or constitutive expression. The technology would benefit the ...

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A number of recent reports on somatic embryogenesis in woody plants such as Norway spruce (*Picea abies*), Loblolly pine (*Pinus taeda*), Sandalwood (*Santalum album*), Citrus, Mango (*Mangifera indica*), etc. , offer a ray of hope of: a) inexpensive clonal propagation for large-scale production of plants or "emblings" or "somatic embryo plants", b) protoplast work, c) cryopreservation, d) genetic transformation, and e) artificial or manufactured seed production.

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