

Plant Genomics

July 14-15, 2016 Brisbane, Australia

The plant regeneration and genetic improvement of *Sapiumsebiferum* An important bioenergy tree

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S*apium sebiferum* Roxb. a monoecious deciduous tree of the Euphorbiaceae family, is an economically important multipurpose woody plant species in tropical and subtropical region, considering the huge potential of this species for ornamental, biomass and biodiesel producing. It is essential for *S. sebiferum* to establish high efficient plant tissue culture procedures which can be used for large scale propagation and genetic improvement. We have established high efficient plant regeneration systems through different pathways by using different parts of *S. sebiferum* explants. And based on those plant regeneration systems, we have established a high efficient genetic transformation system. Our results provide critical information for the propagation and the genetic improvement of *S. sebiferum*.

Biography

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