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The plant regeneration and genetic improvement of *Sapium sebiferum*: An important bioenergy tree

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Sapium 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* as 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

Lifang Wu has obtained her PhD from Hefei Institutes of Physical Science, Chinese Academy of Sciences, Hefei, China and her Postdoctoral studies from National University of Singapore. She has published more than 50 papers in reputed journals such as *Nature, Plant Physiology & Genes and Development* etc. She is globally recognized as an expert in molecular breeding of woody bioenergy plant species.

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