

CROP FREE OIL PRODUCTION FOR BIOFUEL

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Energy is the defining challenge of the 21st century, with unprecedented implications for world security, long-term economic competitiveness, and climate change. The University of Antioquia and its Biotechnology Research team are pooling their expertise in biology, engineering bioprocess and chemistry, and other related fields to help achieve an affordable, sustainable and clean supply green oil of *Jatropha curcas* to be transformed into biofuel

In order to contribute from the sciences point of view, the research team has been proposed a research project with the aim of producing crop free oil of ***J. curcas*** by way of plant cell culture. The advances of the research have been able to provide a technological process that could be used for this or other oily plant species to produce oil without field crop that can be implemented in any part of the world, in a clean, sustainable and removable way independently of climatic and external environmental conditions, without seasonality, irrigation, agrochemicals, pathogens free and could be produced 24 hours/ year around.