

Realization of a low carbon society through game changing technologies

Establishment of technology to produce biocoal from grasses through network analyses of genome-transcriptome-translatome

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Summary :

Coal remains to be a major energy source in the current world. Replacement with CO₂-neutral fuel will reduce CO₂ emission.

In the present project, we aim to develop a strategy to improve sorghum, a high biomass grass crop, to “woody” sorghum suitable for production of high-energy biocoal.

For this purpose, genome-transcriptome-translatome network will be analyzed. The “woody” sorghum will be grown in Africa to produce biocoal for replacement of energy woods to prevent deforestation.

