

EXPLOITABLE FOREGROUND

New early A/B female lines for biomass hybrids

Explanation and Purpose

This SWEETFUEL exploitable result concerns 24 BC1 and 28 BC4 early A/B lines with adaptive and yield traits to be used as female parents of biomass hybrids for temperate conditions.

Crosses were made by CIRAD using CIRAD B parents. From the F2 generation, part of the lines was developed through pedigree selection by CIRAD in France and part was selected in Germany by KWS.

The conversion of F4 or F5 new B lines into A1 cytoplasm male sterility was alternately managed by CIRAD and KWS. The last conversion cycle was achieved by CIRAD in Montpellier during the 2013 summer season.

Exploitation Strategy

Depending of their respective contribution to the development of the different sets of B lines, this germplasm belongs exclusively to CIRAD or to both CIRAD and KWS.

IPR Measures

No patent application is planned.

Plant variety rights (PVR) may be requested in case of registration of one or several hybrids made with these lines

Further Research

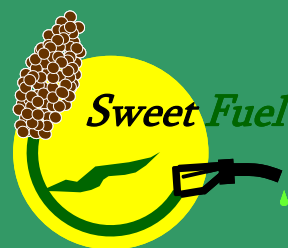
Further research includes further testing in hybrid combination with a small set of male in a broader range of environments in Europe.

Impact of Exploitation

This SWEETFUEL exploitable result constitutes useful germplasm for developing a new generation of biomass sorghum hybrids of short cycle duration (high growth rate per day) relevant for double cropping systems.

SWEETFUEL

Sweet Sorghum: an alternative energy crop



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