

EXPLOITABLE FOREGROUND

New male lines for biomass hybrids

Explanation and Purpose

This SWEETFUEL exploitable result concerns 32 S5 lines to be used as male parents for making biomass sorghum hybrids well adapted to European temperate conditions.

They are derived from four crosses IS 30441 x IS 29409, IS 30441 x Keller, IS 30441 x IS 30308 and IS 30435 x IS 29407 through pedigree selection alternatively implemented in Germany and France. All parents (progenitors) of these crosses belong to sorghum CIRAD gene bank.

These lines have high early growth vigour, tolerance to low temperatures at seedling stage, adequate earliness, intermediate stem thickness with high lodging tolerance and small open panicles. They are B or partial B lines regarding A1 cytoplasm sterility system.

Exploitation Strategy

This germplasm belongs to both CIRAD and KWS.

Both organisations are free to use it for research or commercial purposes with other partners.

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 parental lines.

Further Research

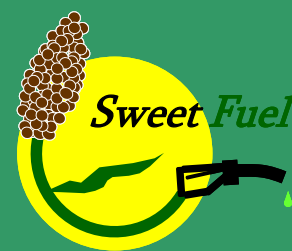
Further research includes further testing in hybrid combination with a small set of females in a broader range of environments in Europe and improvements for stem digestibility.

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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