

EXPLOITABLE FOREGROUND

New A/B female lines with low lignin content

Explanation and Purpose

This SWEETFUEL exploitable result concerns 9 BC1 and 6 BC3 early or intermediate A/B lines with low lignin content and other adaptive and yield traits to be used as female parents for biomass hybrids for temperate conditions.

Crosses made by CIRAD using CIRAD elite B lines as recurrent parents and CIRAD + ICRISAT sources of bmr (low lignin) genes. Lines were created through backcross and pedigree selection implemented at CIRAD. The conversion of promising bmr lines into A1 cytoplasm male sterility was made by CIRAD in France.

These new A/B lines include bmr6, bmr8 and bmr12 genes, alone or in combination.

Exploitation Strategy

This germplasm belongs exclusively to CIRAD which is allowed 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 lines.

Further Research

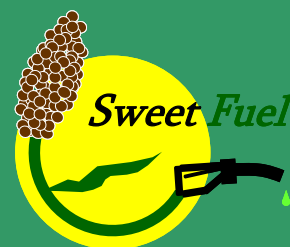
Further research includes further testing in hybrid combination with a small set of male in a broader range of environments in Europe.

Impact of Exploitation

This SWEETFUEL exploitable result constitutes useful germplasm for developing a new generation of biomass sorghum hybrids of intermediate cycle duration relevant for dedicated cropping systems.

SWEETFUEL

Sweet Sorghum: an alternative energy crop



Contact for Exploitable Result:

CIRAD, France
Gilles Trouche
gilles.trouche@cirad.fr



Project Coordination:

CIRAD, France
Serge Braconnier
serge.braconnier@cirad.fr



Project Dissemination:

WIP – Renewable Energies, Germany
Rainer Janssen
Dominik Rutz
rainer.janssen@wip-munich.de
dominik.rutz@wip-munich.de



SWEETFUEL Website:
www.sweetfuel-project.eu



SWEETFUEL is co-funded by the
European Commission in the
7th Framework Programme
(Project No. FP7-227422)