



Available Technologies Search Tool

federallabs.org/techs

Presented to the National Academy of Sciences

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Chair, Federal Laboratory Consortium
August 22, 2013

The Perceived Problem



So What was the problem?



Solution

- Consolidation of all information on a single site
- User-friendly features
- All the user/searcher needs to know is that for which he/she is looking

Completing the Puzzle



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Available Technologies: Strengthening Bioenergy Feedstock Plants ...

Strengthening Bioenergy Feedstock Plants by Overexpression of Three Rice Genes EJIB-3283. APPLICATIONS. **Biofuel** production; Agriculture.

ADVANTAGES.

www.lbl.gov/tt/techs/lbni3283.html

Available Technologies: Renewable Chemicals Produced from Lignin

Derives valuable chemicals from renewable sources; Utilizes waste lignin from **biofuels** production, paper pulping and agriculture; Potential to significantly ...
www.lbl.gov/tt/techs/lbni3265.html

Available Technologies: Ionic Liquids from Lignin-derived Compounds

Biomass pretreatment for **biofuel** production; Product separation and recovery; Catalysis; Paper pulping; Other industries using ionic liquids, e.g., pharmaceutical ...
www.lbl.gov/tt/techs/lbni2013-042.html

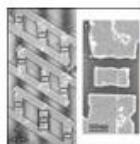
Available Technologies: Sugar Extraction and Ionic Liquid Recycling ...

Biomass pretreatment for **biofuel** production; Recovery of products using biphasic liquid-liquid extraction; Recovery and recycle of ionic liquids. ADVANTAGES: ...
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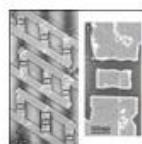
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Available Technologies

Strengthening Bioenergy Feedstock Plants by Overexpression of Three Rice Genes EJIB-3283

jbei
Joint BioEnergy Institute

APPLICATIONS

- Biofuel production
- Agriculture

ADVANTAGES

- Strengthens plant stems to over 120% that of wild type plants
- Helps prevent crop loss from stem breakage (lodging)

ABSTRACT

Researchers at the Joint BioEnergy Institute (JBEI) have identified a glycosyltransferase encoded by closely related rice genes that is involved in xylan biosynthesis in the cell wall. When the genes are overexpressed, xylosyltransferase activity and stem strength are increased beyond that of wild type plants.

Increasing plant stem strength can increase plant size and prevent crop loss caused by stem breakage due to environmental factors or pathogens. This development can lead to more cost effective growth of feedstocks for biofuel production, among other applications.

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