



# **Available Technologies Search Tool**

**[federallabs.org/techs](http://federallabs.org/techs)**

**Presented to the National Academy of Sciences**

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**Chair, Federal Laboratory Consortium**  
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# 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



## AVAILABLE TECHNOLOGIES SEARCH TOOL

Search **thousands of available technologies** from our federal labs that are **ready for licensing**.



### What is the Available Technologies Search Tool?

The FLC Available Technologies tool provides a free one-stop shop to locate licensing opportunities for a particular type of technology anywhere in our nationwide system of federal labs and research centers. We are continually adding participating agencies and laboratories to the tool to enhance this search capability. We use a customized advanced Google search to scan the available technologies and quickly return relevant results so searching doesn't require any specialized language knowledge.

Below the search feature you'll see quick buttons to print or download a PDF of your first 50 search results. You can also obtain a login to the site and save your queries to easily run again in the future.

Watch a demo of the Available Technologies search:

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### Search for a Technology

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Enter your search criteria in the "search" box below.

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### Find web pages that have...

this exact wording or phrase:

any of these words:  OR  OR


### But don't show pages that have...

any of these unwanted words:

Advanced criteria

### Published within the last

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About 538 results  
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limited to 100 records

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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](http://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 ...

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### [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 ...

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### [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:.

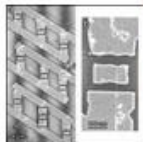
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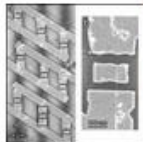
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### Available Technologies

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



#### 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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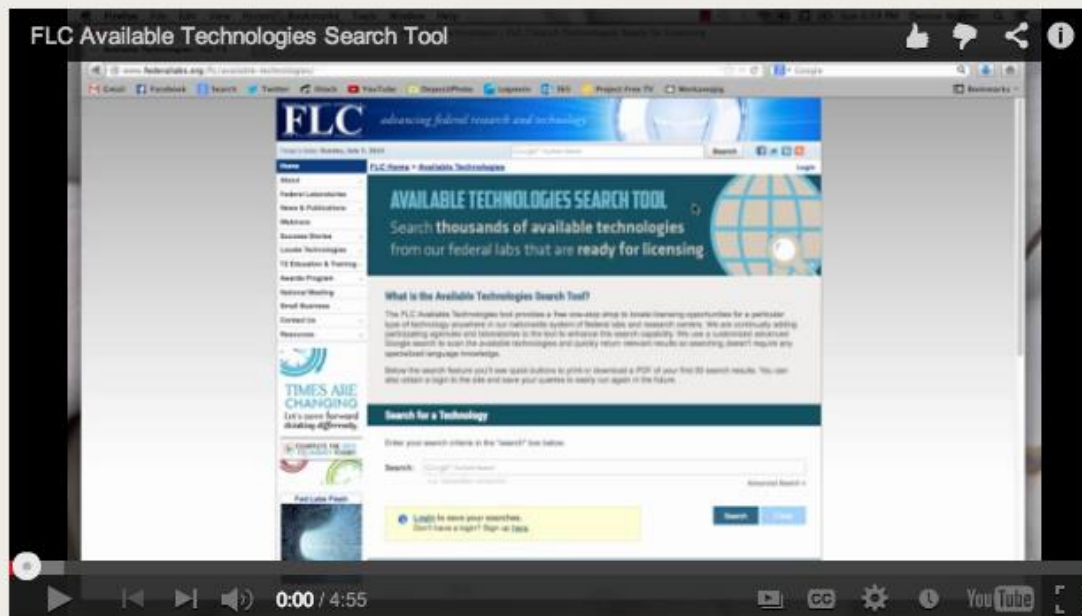
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# Contact Information

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