Materials List for:

Lignin Down-regulation of *Zea mays* via dsRNAi and Klason Lignin Analysis

Sang-Hyuck Park[1], Rebecca Garlock Ong[2], Chuansheng Mei[3], Mariam Sticklen[4]

[1]The School of Plant Sciences, University of Arizona

[2]Department of Chemical Engineering and Materials Science, DOE Great Lakes Bioenergy Research Center, Michigan State University

[3]The Institute for Sustainable and Renewable Resources, The Institute for Advanced Learning and Research

[4]Department of Plant, Soil and Microbial Sciences, Michigan State University

Correspondence to: Sang-Hyuck Park at shpark@email.arizona.edu

URL: https://www.jove.com/video/51340
DOI: doi:10.3791/51340

Materials

Name	Company	Catalog Number	Comments
N6OSM (Osmotic medium)			Made in-house
N6E (Callus induction)			Made in-house
N6S media (Selection media)			Made in-house
Regeneration medium			Made in-house
Rooting medium			Made in-house
10% Neutral buffered formalin (1 L)			Made in-house
Bio-Rad PSD-1000/He Particle Delivery device	Hercules, CA, United States		
Zeiss PASCAL confocal laser scanning microscope	Carl Zeiss, Jena, Germany		For brightfield microscopy, the images were recorded using a Zeiss (Jena, Germany) PASCAL confocal laser scanning microscope with a 488 nm excitation mirror, a 560 nm emission filter, and a 505-530 nm emission filter. Image analysis was performed using Laser scanning microscope PASCAL LSM version 3.0 SP3 software.
Excelsior ES Tissue Processor	Thermo Scientific, Pittsburgh, PA, United States		
HistoCentre III Embedding Station	Thermo Scientific, Pittsburgh, PA, United States		
Microtome Model Reichert 2030	Reichert, Depew, NY, United States		
Emscope Sputter Coater model SC 500	Ashford, Kent, England		
JEOL JSM-6400V Scanning Electron Microscope	JEOL Ltd., Tokyo, Japan		
Fitzpatrick JT-6 Homoloid mill	Continental Process Systems, Inc., Westmont, IL		
MA35 Moisture Analyzer	Sartorius		
Critical point dryer, Balzers CPD	Leica Microsysstems Inc, Buffalo Grove, IL, United States		
Screw-top high pressure tubes	Ace Glass, Vineland, NJ	#8648-27	
Screw-top high pressure tube plugs	Ace Glass, Vineland, NJ	#5845-47	