

Materials List for:

# Visualizing Lignification Dynamics in Plants with Click Chemistry: Dual Labeling is BLISS!

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URL: <https://www.jove.com/video/56947>

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## Materials

Name	Company	Catalog Number	Comments
(E)-4-(3-(2-(2-(2-azidoethoxy)ethoxy)ethoxy)prop-1-en-1-yl)phenol ( <b>H<sub>AZ</sub></b> )			Synthesized as in Lion <i>et al. Cell Chem. Biol.</i> 2017, 24, 3, 326-338
(E)-4-hydroxy-3-propargyloxycinnamyl alcohol ( <b>G<sub>ALK</sub></b> )			Synthesized as in Lion <i>et al. Cell Chem. Biol.</i> 2017, 24, 3, 326-338
2% sodium hypochlorite			
20 cm high glass tube			
250 mL Schott glass bottle			
48-well Plate			
5/6-TAMRA-PEG <sub>3</sub> -Azide	Jena Bioscience	CLK-AZ109-1	
Aluminium foil			
Cheese cloth			
Compost containing clay			
Coniferyl alcohol ( <b>G</b> )	Sigma Aldrich	MFCD00002922	
Copper (II) sulfate pentahydrate			
DBCO-PEG <sub>4</sub> -5/6-Carboxyrhodamine 110	Jena Bioscience	CLK-A127-1	
Milli-Q Ultrapure water			
Eppendorf 1,5 mL			
EtOH			
Flax seeds ( <i>L. usitatissimum</i> L.)			
Fluoromount-G™ Slide Mounting Medium	Electron Microscopy Sciences	17984-25	
Glass coverslip			
Glass microscope slide			
Growth chamber	CLF-Plant Climatics		For 2-week-old plants culture
Growth chamber	Angelantoni Life Sciences		For 2-month-old plants culture
Magenta plant culture box			For 2-week-old seedling culture
Methanol			Toxic (SGH02, SGH06, SGH08), work with gloves under a hood
Micropipette			
Nail polish			
Nikon A1R confocal microscope	Nikon		
Orbital shaker			
Parafilm			

p-Coumaryl alcohol (H)	Carbosynth	FC145653	
Plastic cap			
Plastic pipette			
Plastic pot			For 2-month-old plants culture
Razor blade			
Rubber band			
Sodium Ascorbate			
Sterile clamp			
Vertical support			
Vortex			
<b>Reagents for liquid and solid ½ MS medium</b>			
KH <sub>2</sub> PO <sub>4</sub>			
KNO <sub>3</sub>			
NH <sub>4</sub> NO <sub>3</sub>			
MgSO <sub>4</sub> .7H <sub>2</sub> O			
CaCl <sub>2</sub> .2H <sub>2</sub> O			
MnSO <sub>4</sub> .H <sub>2</sub> O			
ZnSO <sub>4</sub> .7H <sub>2</sub> O			
H <sub>3</sub> BO <sub>3</sub>			
KI			
Na <sub>2</sub> MoO <sub>4</sub> .2H <sub>2</sub> O			
CuSO <sub>4</sub> .5H <sub>2</sub> O			
CoCl <sub>2</sub> .6H <sub>2</sub> O			
Na <sub>2</sub> EDTA.2H <sub>2</sub> O			
FeSO <sub>4</sub> .7H <sub>2</sub> O			
Thiamine.HCl			
Pyridoxine.HCl			
Glycine			
Nicotinic acid			
Myo-inositol			
Saccharose			
MES hydrate			
Agar			