

Accepted Manuscript

Title: Investigating dehydration-induced physical strains of cellulose microfibrils in plant cell walls

Authors: Shixin Huang, Mohamadamin Makarem, Sarah N. Kiemle, Yunzhen Zheng, Xin He, Dan Ye, Esther W. Gomez, Enrique D. Gomez, Daniel J. Cosgrove, Seong H. Kim



PII: S0144-8617(18)30645-3
DOI: <https://doi.org/10.1016/j.carbpol.2018.05.091>
Reference: CARP 13673

To appear in:

Received date: 15-2-2018
Revised date: 5-5-2018
Accepted date: 30-5-2018

Please cite this article as: Huang, Shixin., Makarem, Mohamadamin., Kiemle, Sarah N., Zheng, Yunzhen., He, Xin., Ye, Dan., Gomez, Esther W., Gomez, Enrique D., Cosgrove, Daniel J., & Kim, Seong H., Investigating dehydration-induced physical strains of cellulose microfibrils in plant cell walls. *Carbohydrate Polymers* (2018), <https://doi.org/10.1016/j.carbpol.2018.05.091>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Investigating dehydration-induced physical strains of cellulose microfibrils in plant cell walls

Shixin Huang,¹ Mohamadamin Makarem,¹ Sarah N. Kiemle,² Yunzhen Zheng,² Xin He,¹ Dan Ye,¹ Esther W. Gomez,^{1,3} Enrique D. Gomez,^{1,4} Daniel J. Cosgrove,² and Seong H. Kim^{1,4}*

1. Department of Chemical Engineering, The Pennsylvania State University, University Park, PA. 16802
2. Department of Biology, The Pennsylvania State University, University Park, PA. 16802
3. Department of Biomedical Engineering, The Pennsylvania State University, University Park, PA. 16802
4. Materials Research Institute, The Pennsylvania State University, University Park, PA 16802

* Corresponding author: shkim@enr.psu.edu

Graphical abstract

TOC Figure

Download English Version:

<https://daneshyari.com/en/article/7781775>

Download Persian Version:

<https://daneshyari.com/article/7781775>

[Daneshyari.com](https://daneshyari.com)