

Eric Beers

Selected Publications

Petzold, H.E., M. Zhao and E.P. Beers, 2011. Expression and functions of proteases in vascular tissue. *Physiol. Plant.* In press. doi: 10.1111/j.1399-3054.2011.01538.x

Zhu, H., C.D. Dardick E.P. Beers, A.M. Callahan, R. Xia and R. Yuan, 2011. Transcriptomics of shading-induced and NAA- induced abscission in apple (*Malus domestica*) reveals a shared pathway involving reduced photosynthesis, alterations in carbohydrate transport and signaling and hormone crosstalk. *BMC Plant Biol.* 11:138. <http://www.biomedcentral.com/1471-2229/11/138>

van Doorn, W.G., E.P. Beers, J.L. Dangl, et al., 2011. Morphological classification of plant cell deaths. *Cell Death Differ.* 18: 1241-1246. <http://www.nature.com/cdd/journal/v18/n8/full/cdd201136a.html>

Zhao, C., A. Hanada, S. Yamaguchi, Y. Kamiya and E.P. Beers, 2011. The Arabidopsis Myb genes *MYR1* and *MYR2* are redundant negative regulators of flowering time under decreased light intensity. *Plant J.* 66: 502-515, <http://onlinelibrary.wiley.com/doi/10.1111/j.1365-313X.2011.04508.x/full>

Brunner, A.M. and E.P. Beers, 2010. Transcription factors in poplar growth and development. In *Poplar*. Eds. C.P. Joshi and S. DiFazio. Genetics, Genomics and Breeding of Poplar. In the series: Genomics of Industrial Crop Plants, Series Ed. C. Kole. Science Publishers, Enfield, New Hampshire. pp. 192-230.

Zhu, H., R. Yuan, E.P. Beers, and D.W. Greene, 2010. Effects of 1-methylcyclopropene and naphthaleneacetic acid on fruit set and expression of genes related to ethylene biosynthesis and perception and cell wall degradation in apple. *J. Amer. Soc. Hort. Sci.* 135: 402-409.

Grant, E.H., T. Fujino, E.P. Beers, and A.M. Brunner, 2010. Characterization of NAC domain transcription factors implicated in control of vascular cell differentiation in Arabidopsis and *Populus*. *Planta* 232: 337-352. <http://www.springerlink.com/content/438337727g1l638/>

Zhu, H. E.P. Beers, R. Yuan, 2008. Aminoethoxyvinylglycine inhibits fruit abscission induced by naphthaleneacetic acid and associated relationships with expression of genes for ethylene biosynthesis, perception and cell wall degradation in 'Delicious' apples. *J. Amer. Soc. Hort. Sci.* 133: 727-734.

Avci, U., H.E. Petzold, I.O. Ismail, E.P. Beers, C.H. Haigler, 2008. (online 06/20/08) Cysteine proteases XCP1 and XCP2 aid micro-autolysis within the intact central vacuole during xylogenesis in *Arabidopsis* roots. *Plant J.* 56, 303–315. <http://www3.interscience.wiley.com/cgi-bin/fulltext/120081910/HTMLSTART>

Zhao, C., U. Avci, E. Grant, C.H. Haigler, E.P. Beers, 2008. (online 12/07/07) XND1, a member of the NAC domain family in *Arabidopsis thaliana*, negatively regulates lignocellulose synthesis and programmed cell death in xylem. *Plant J.* 53: 425-436. <http://www.blackwell-synergy.com/doi/abs/10.1111/j.1365-313X.2007.03350.x> (cover article)

Ko, J., E.P. Beers, K. Han, 2006. (online 09/13/06) Global comparative transcriptome analysis identifies gene network regulating secondary xylem development in *Arabidopsis thaliana*. *Molec. Gen. Genom.* 276:517-531. <http://www.springerlink.com/content/y764837361j5154v/fulltext.html>

Zhao, C., J.C. Craig, H.E. Petzold, A.W. Dickerman, E.P. Beers, 2005. (online 05/27/05) The xylem and phloem transcriptomes from secondary tissues of the *Arabidopsis* root-hypocotyl. *Plant Physiol.* 138: 803-818. www.plantphysiol.org/cgi/doi/10.1104/pp.105.060202

Beers, E.P., A.M. Jones, A.W. Dickerman, 2004. (online 11/07/03) The S8 serine, C1A cysteine and A1 aspartic protease families in *Arabidopsis*. *Phytochemistry* 65: 43-58. <http://dx.doi.org/doi:10.1016/j.phytochem.2003.09.005>

Beers, E.P., J.M. McDowell, 2001. (online 10/12/01) Regulation and execution of programmed cell death in response to pathogens, stress and developmental cues. *Curr. Opin. Plant Biol.* 4: 561-567. [http://dx.doi.org/doi:10.1016/S1369-5266\(00\)00216-8](http://dx.doi.org/doi:10.1016/S1369-5266(00)00216-8)

Zhao, C., B.J. Johnson, B. Kositsup, E.P. Beers, 2000. Exploiting secondary growth in *Arabidopsis*: construction of xylem and bark cDNA libraries and cloning of three xylem endopeptidases. *Plant Physiol.* 123: 1185-1196. <http://www.plantphysiol.org/cgi/content/abstract/123/3/1185>