



## 12<sup>th</sup> Annual Harvard Plant

### Biology Initiative Symposium

2017 Poster Session -- Tuesday, May 9<sup>th</sup>

#### Seasonal Dynamics of Whole-Tree Nonstructural Carbohydrate budgets in Five Temperate Species

**Authors:** Morgan Furze, Brett Huggett, Molly Wieringa, Elizabeth Rao, Claire Stolz, Mariah Carbone, Andrew Richardson  
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#### Ecological Correlates of the Evolution of Pitcher Traits in the Genus *Nepenthes*

**Authors:** Kadeem J. Gilbert, Joel H. Nitta, Gerard Talavera, Naomi E. Pierce  
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#### The Future of Wine Under Climate Change, Shifting Varieties Rather Than Growing Regions

**Authors:** Ignacio Morales-Castilla, I. Garcia de Cotrazar-Atauri, B. Cook, K. van Leew, T. Lacombe, A. Parker, K. Nicholas, Elizabeth Wolkovich  
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#### Mechanisms of Divergent Responses of Red and White Spruce to Parasitic Dwarf Mistletoe Infection

**Authors:** Jacob Barnett, David Des Marais, Barry Logan  
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#### Phylogenetic History Predicts Leaf Responses to Dry-Down Among Congeners

**Authors:** Kerri Mocko, Adrienne B. Nicotra, Cynthia S. Jones  
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#### Stomatal Development and Diversity in Cycads (Order Cycadales)

**Authors:** P. Barry Tomlinson, Tracy M. Magellan, M. Patrick Griffith  
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#### The *Rapunzel (rzi)* Genes Regulate Growth Suppression in Maize Florets

**Authors:** Harry Klein, Clinton Whipple, Madelaine Bartlett  
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#### Evolution of Developmental Regulators in the CLV1/TD1 Gene Clade

**Authors:** Jarrett Man, Lei Liu, Tara Zadrozny, David Jackson, Madelaine Bartlett  
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#### Evolution of PISTILLATA paralogs in *Tarenaya hassleriana*

**Authors:** Suzanne de Bruijn, Gerco Angenent, Kerstin Kaufmann  
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#### Transcriptomic Analyses Reveal Molecular Mechanisms Contributing to Structural Complexification of Petals in *Nigella damascena*

**Authors:** Rui Zhang, Caiyao Zhao, Hong Liao, Peipei Wang, Xu Yao, Xiaoshan Duan, Huiqi Zhao, Hongyan Shan, Elena Kramer, Hongzhi Kong  
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#### Drought Effects on Floral Traits and Their Heritabilities in *Phlox drummondii*

**Authors:** Sevan Suni, Ben Ainsworth, Robin Hopkins  
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## [Stomatal Response to Humidity and CO<sub>2</sub> Implicated in Recent Decline in U.S. Evaporation](#)

**Authors:** Angela Rigden, Guido D. Salvucci

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## [In Planta Analysis of the Promoter Activity of Zct1, A Transcriptional Repressor of Alkaloid Biosynthesis in \*Catharanthus roseus\*](#)

**Authors:** Diana Bernal-Franco, Samuel Breselge, Jessica Weaver, Erin Cram, Carolyn Lee-Parsons

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## [Cold Treatment Regulates Expression of Phenology-Relevant Candidate Genes in the English Walnut, \*Juglans regia\* L](#)

**Authors:** Ashton Macfarlane, William E. Friedman

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## [Effect of the Promoter on Long-Term Expression Stability in \*Chlamydomonas reinhardtii\*](#)

**Authors:** Samuel Breselge, Alexander Einhaus, Andre Jochums, Thomas Reinard, Erin J. Cram, Carolyn W.T. Lee-Parsons

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## [Variable Dimerization of Maize B-Class MADS Box Transcription Factors](#)

**Authors:** Amanda Schragger-Lavelle, Pubudu Handakumbura, Jarrett Man, Edgar Demesa Arevalo, Dilay Ayhan, David Jackson, Courtney Babbitt, Madelaine Bartlett

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## [Science in Real Life: A YouTube Series for Science Outreach](#)

**Authors:** Molly Edwards, Ramin Rahni

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## [Comparing \*Quercus suber\* L. Leaf Traits in Two Distinct Climate Regions of the Iberian Peninsula](#)

**Authors:** Kyra A. Pratts, Craig R. Brodersen, Mark S. Ashton

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## [Hydraulic Tradeoffs in the Evolution and Diversification of Angiosperm Flowers](#)

**Authors:** Adam B. Broddy, Craig R. Brodersen

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## [Prehistoric Plants Renewed: An Updated Lycopod Tree of Life](#)

**Authors:** Abigail Burrus, Alex Domburg, Andrew Leslie

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## [The Stability of Leaf-Level Transpiration During Wind Gusts Requires A Constraint on Maximum Stomatal Conductance](#)

**Authors:** Fulton Rockwell, Abraham D. Stroock, N. Michele Holbrook

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## [Foliar Water Uptake Involves Unique Anatomical Adaptations in A Tree of Semi-Arid Environments](#)

**Authors:** Juan M. Losada, Miriam Diaz, N. Michele Holbrook

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## [The Role of Wood Parenchyma and Fibers in Tree Hydraulics](#)

**Authors:** Kasia Ziemska, Sean M. Gleason

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## [Legumes Cleave GPI-Anchored Proteins to Maintain Symbiotic Bacteria](#)

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