

2022 Poster Session

16th ANNUAL PLANT BIOLOGY INITIATIVE SYMPOSIUM

Research *in* the Living Collections of Arboreta and Botanical Gardens

Structural Organization of the Spongy Mesophyll

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Biochemical Evolution of Dicer-Like Proteins in PhasiRNA Production

Authors: Alexandria Pete, Alex Harkness, Blake C. Meyers, Elena Kramer

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Filling in the Gaps: The Genetic Network of Fruit Development in *Austrobaileya scandens* and *Illicium floridanum* (Austrobaileyales)

Authors: Ellie Mendelson, Cecilia Zumajo-Cardona, Barbara A. Ambrose

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Joint Evolution of Sexual Systems and Range Sizes in Angiosperms

Authors: Bushra Shahid, Jos Kafer, Mathilde Dufay, Jeanne Tonnabel

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The DEL Collection: A Resource for DNA Extraction from the Arnold Arboretum Accessions 24/7/365

Authors: Dan Sullivan, Kathryn Richardson, Michael Dosmann

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More Than Just Plants: Botanical Gardens as A Source of Fungal Diversity

Authors: Michael Bradshaw, Luis Quijada, Donald Pfister

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Decoding the Genetic Pathways of Nectary Development and Filling in *Aquilegia*

Authors: Yan Gong, Ya Min, Stephanie J. Conway, Elena Kramer

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A Tale of Two Trees: Exploring the Role of Climate Change in the Extinction of the Franklin Tree (*Franklinia alatamaha*)

Authors: Yujing Yan, Heather Gladfelter, Dayton Wilde, Claire Bailey, Tim Sackton, Charles Davis

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Combined Drought Resistance Strategies and the Hydraulic Limit in Co-Existing Mediterranean Woody Species

Authors: Rakefet David-Schwartz, Asaf Alon, Shabtai Cohen, Regis Burlett, Uri Hochberg, Victor Lukyanov, Ido Rog, Tamir Klein, Herve Cochard, Sylvain Delzon

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Sieve Tube Structural Variation in *Austrobaileya scandens* and Its Significance for Lianescence

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The Potential Impact of Solar Geoengineering on Forest Productivity in Dryland Ecosystem

Authors: Yakir Preisler, Nikos Markos, N. Michele Holbrook

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Xylem Embolism Spreads by Single-Conduit Events in Three Dry Forest Angiosperm Stems

Authors: Kate M. Johnson, Craig Brodersen, Madeline R. Carins-Murphy, Brendan Choat, Timothy J. Brodribb

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Combined Effects of Urbanization and Forest Fragmentation on Nitrogen Cycling in New England Forests

Authors: Steve Caron, Lucy Huttyra, Kyle Schultz, Jon Gewirtzman, Pamela Templer

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The Ecological Regulation of Symbiotic Nitrogen Fixation in Black Locust (*Robinia pseudoacacia*)

Authors: Kaitlyn DeGroot, Benton Taylor, Wenying Liao

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Biotic and Abiotic Drivers of Recovery in a Northeast Oak-Hickory Forest

Authors: Carina Berlingeri, Calvin Heslop, Katherine Terlizzi, Nikhil Chari, Lauren Church, Kaitlyn DeGroot, Wenying Liao, Lindsay McCulloch, Benton Taylor

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Relationship of Forest Tree Species Abundance to Museum Collections

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Soils at the Forest Edge: Interacting Effects of land Use Change and Forest Fragmentation on Soil Microbial Processes

Authors: Sarah M. Garvey, Pamela H. Templer, Jennifer M. Bhatnagar, Erin A. Pierce, Lucy R. Huttyra

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Investigating the Developmental Genetics of Ranunculaceae Petals

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