

Calendar Year 2019 Staff Publications

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Timing and ecological priority shaped the diversification of sedges in the Himalaya
Demography and destiny: The syngameon in hyperdiverse systems
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Comment on “Eocene Fagaceae from Patagonia and Gondwanan legacy in Asian rainforests”
Microbes to Bobcats: Biological Refugia of Appalachian Reclaimed Coal Mines
BGCI Technical Review: The role of botanic gardens in urban greening and conserving urban biodiversity
The Role of Gardens in Integrated Conservation Practice: The Case of Conserving *Quercus Brandegeei* in Baja California Sur, Mexico
The Morton Arboretum's Oak Conservation Efforts in Latin America
Ancient events and climate adaptive capacity shaped distinct chloroplast genetic structure in the oak lineages
A tale of worldwide success: Behind the scenes of *Carex* (Cyperaceae) biogeography and diversification
Genomic Identity of White Oak Species in an Eastern North American Syngameon
Different responses of absorptive roots and arbuscular mycorrhizal fungi to fertilization provide diverse nutrient acquisition strategies in Chinese fir
Drone-based photogrammetry for the construction of high-resolution models of individual trees
Conservation Gap Analysis of Native U.S. Oaks
The benefits of trees for livable and sustainable communities
Plant phylogenetic history explains in-stream decomposition at a global scale
Intersecting urban forestry and botanical gardens to address big challenges for healthier trees, people, and cities
Intraspecific Fine-Root Trait-Environment Relationships across Interior Douglas-Fir Forests of Western Canada
Rapid plant speciation associated with the last glacial period: reproductive isolation and genetic drift in sedges
Biogeochemical recuperation of lowland tropical forest during succession
Pattern of Diversity among Pistillate Scales of the Western Himalayan *Carex* spp. (Cyperaceae): Micromorphological and molecular inferences
“Pharaoh’s Dance”: the Oak Genomic Mosaic
Population Genetics of *Quercus macrocarpa*
Inference of biogeographic history by formally integrating distinct lines of evidence: genetic, environmental niche and fossil
‘Intentional Genetic Manipulation’ as a conservation threat
Toward the Metacollection: Coordinating conservation collections to safeguard plant diversity
Plant Collections Network Multisite *Quercus* Collection
Post-Conference Tour October 25-26, 2018 San Francisco Bay Area
Global mycorrhizal plant distribution linked to terrestrial carbon stocks
Physical and Functional Constraints on Viable Belowground Acquisition Strategies
Impact of Planting Depth on *Fraxinus pennsylvanica* ‘Patmore’ Growth, Stability, and Root System Morphology
Why are white oak trees dying?
What's in an Arboretum?
The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 1: Model description
How do climate change experiments alter plot-scale climate?
Tree Seedling Root Architecture Alteration by Tap Root Pruning
Species Variation in Root Tolerance of Soil Compaction and Poor Drainage
Landscape Below Ground IV: Introduction to a Special Issue
Mature Tree Transplanting: Science Supports Best Management Practice
Strategies for Sustainable Tree Planting in Confined Urban Spaces
Pervasive decreases in living vegetation carbon turnover time across forest climate zones
Lifetime reproductive success of northern elephant seals (*Mirounga angustirostris*)
Testing for changes in biomass dynamics in large-scale forest datasets
Performance of tropical forest seedlings under shade and drought: an interspecific trade-off in demographic responses
Correlated evolution of morphology, gas exchange, growth rates and hydraulics as a response to precipitation and temperature regimes in oaks (*Quercus*)

How sensitive are climatic niche inferences to distribution data sampling? A comparison of Biota of North America Program (BONAP) and Global Biodiversity Information Facility (GBIF) datasets

Genomic landscape of the global oak phylogeny

Spatio-temporal heterogeneity in extracellular enzyme activities tracks variation in saprotrophic fungal biomass in a temperate hardwood forest

Forest Health Issues 2019: An Overview

Fine?root traits are linked to species dynamics in a successional plant community

Global meta?analysis reveals different patterns of root tip adjustments by angiosperm and gymnosperm trees in response to environmental gradients

Community?level economics spectrum of fine?roots driven by nutrient limitations in subalpine forests

New guidance for ex situ gene conservation: Sampling realistic population systems and accounting for collection attrition

Conifer responses to a stylet?feeding invasive herbivore and induction with methyl jasmonate: impact on the expression of induced defences and a native folivore

How are nitrogen availability, fine?root mass, and nitrogen uptake related empirically? Implications for models and theory

Effects of climate on the growth response and anatomical tradeoffs of red and white oak

Forecasting tree phenology and climate vulnerability by leveraging botanic garden collections and citizen science observations

The benefits of trees for livable and sustainable communities [Poster]

APGA/USFS Tree Gene Conservation Partnership: Report on 2019 Scouting and Collection Efforts targeting *Magnolia fraseri* var. *pyramidata*