

PA Botany

A Hub for All Things PA Botanical

2021 Pennsylvania Botany List of Posters

To view the posters online go to: <https://epostersonline.com/pab2021/>.

P01

Invasive hybrid vigor? Niche and trait variance between three knotweed taxa

Cheyenne Moore, University of Pittsburgh
Sara Kuebbing
graduate student

P02

Native plant reintroduction and effective removal techniques for *microstegium vimineum*

Kyle Brown, Loyola University Maryland
Dr. Maren Veatch-Blohm
undergraduate student

P03

Drought response and water regulation strategies across maple (*Acer*) species

Ceci G. Williamson, Swarthmore College
Dr. Jake J. Grossman
undergraduate student

P04

The effects of deer, light, and competition on *podophyllum peltatum*

Erin Ziegler, Lebanon Valley College
Doug Becker, Rebecca Urban
undergraduate student

P05

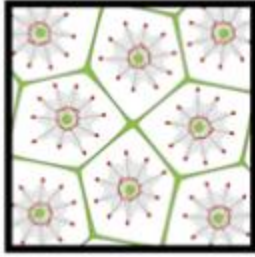
Anthropogenic impacts alter richness-abundance relationship in woody plant communities

Brittney O'Connor, East Stroudsburg University
Emily Rollinson
undergraduate student

P06

A habitat comparison between two ramp species, *Allium tricoccum* and *Allium burdickii*, in Pennsylvania

Cassie Stark, Penn State University
Dr. Eric Burkhart
graduate student



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P07

Soil composition varies with presence of *Celastrus orbiculatus*

Olivia Holley, Penn State Behrend
Dr. Autumn Sabo
undergraduate student

P08

Conservation of a rare species: taxonomic uncertainty and the potential role of a narrowly-occurring specialist pollinator

Anais Barnes, Bucknell University
Dr. Chris Martine
undergraduate student

P09

Comparing herbivory in native and invasive honeysuckles using natural history collections

Santiago Cardenas, The College of New Jersey
Dr. Wendy Clement
undergraduate student

P10

Detection of genes in the fern *C. richardii* using evolutionarily-conserved orthologues with known functions for moss rhizoid and angiosperm root hair development.

Jenna Sins, Department of Biology, Gannon University
Gary Vanderlaan PhD
undergraduate student

P11

Using comparative morphology to describe a new bush tomato species from the Australian monsoon tropics

Claire Marino, Bucknell
Dr. Chris Martine; Dr. Tanisha Williams
undergraduate student

P12

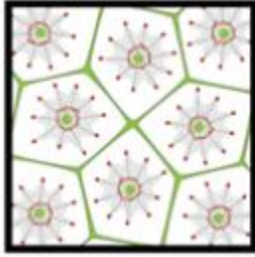
A diverse group of soil bacteria alter rhizoid development in gametophytes of the fern *Ceratopteris richardii*

Grace Rihs, Gannon University
Dr. Michael Ganger
undergraduate student

P13

Exploring the potential for native shrub assemblage restoration in northeastern forests with high whitetail deer and invasive shrub densities

Jennifer Sabol, Chatham University
Jennifer Sabol
graduate student



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P14

What happens when you cross plant species with two distinct sexual systems? An ex situ hybridization approach

Diamanda Zizis, Bucknell University Biology Department

Dr. Chris Martine

undergraduate student

P15

Variation in heterospecific pollen receipt among and within species across the flowering season

Ruth Walton, Temple University

Rachel Spigler

undergraduate student

P16

Quantifying geographic variation in flower color in *Mimulus ringens* using citizen science data

Sarah White, University of Scranton Biology Department

Anne Royer

undergraduate student

P17

Effects of herbivory on sugar and biomass allocation in beet cultivars

Nick Dinkel, Millersville University

Dr. Christopher Stieha

undergraduate student

P18

Comparing leaf and corolla shape of *Lonicera caerulea* (Caprifoliaceae) and associated species across its circumboreal range using herbarium specimens

Kesha Choksi, The College of New Jersey

Wendy Clement

undergraduate student

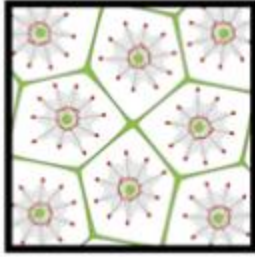
P19

Has climate change physiologically altered poison ivy over the last century?: An empirical test using herbarium specimens

Alyssa McCormick, Chatham University

Ryan Utz

undergraduate student



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P20

Identification of the phenotypic variation and establishing a digitized botanical repository for the genus *Cannabis*

A'naya Ware, Cooperative Agricultural Research Center, College of Agriculture and Human Sciences, Prairie View A&M University

Aruna Weerasooriya
undergraduate student

P21

Rhizoid and root developmental phenotypes in *Ceratopteris richardii* is affected by bacteria

Landen Mayher, Gannon University

Gary Vanderlaan
undergraduate student

P22

Virtual Cool Finds! Supplementing rare plant sightings with citizen science

Samantha Betar, Juniata College

Norris Muth
undergraduate student

P23

Investigating the species of the agaricaceae of McKean county, Pennsylvania

Olivia Postlewait, Thiel College, Department of Biology

Dr. Fatimata Pale'
undergraduate student

P24

Where do they come from? Using microsatellite and ddRADseq markers to infer the encroachment dynamics of *Juniperus virginiana* in the Lakeside Daisy Nature Preserve

Hannah Hartman, Kent State University

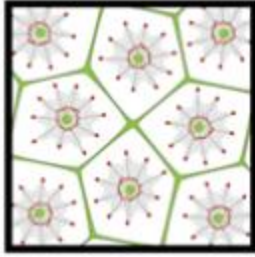
Oscar Rocha
graduate student

P25

Plant-soil feedback experiment reveals allelopathy potentially facilitates eastern redcedar encroachment

Leland Bennion, Kent State University

Dr. David Ward
graduate student



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P26

Pennsylvania harvesters in the wild ramp (*Allium tricoccum*) supply chain promote sustainable practices

Cathryn V Pugh, Ecosystem Science and Management, Pennsylvania State University, University Park, PA 16802

Eric Burkhart
graduate student

P27

Salt tolerance in *monarda punctata* and *monarda citriodora*

Manasiben Patel, Shippensburg University of Pennsylvania

Dr. Heather Sahli
undergraduate student

P28

Correlating reproduction with size and structure and light levels in *Heliconia caribaea*

Maggie Ritchey
Susquehanna University
Dr. David Matlaga