Today's Schedule (in EST!)

11:00-11:20 Introduction to CartograPlant - Dr. Jill Wegrzyn

11:20-11:40 Introduction to Data Submission with TPPS/TPPSc - Emily Grau

11:40-12:00 Introduction to Data Collection/Mobile Phenotyping with TreeSnap - Dr. Margaret Staton

12:00-12:15 Break

12:15-12:35 Behind the Scenes of CartograPlant - Environmental Layers and Data - Risharde Ramnath

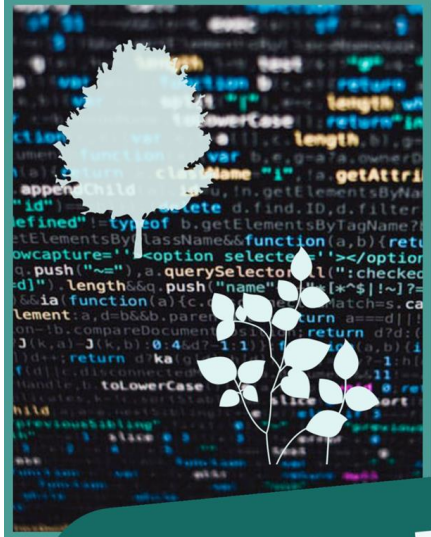
12:35-12:55 Analytics with CartograPlant (GWAS and GEA). Part 1 - Gabriel Barrett

12:55-1:15 Analytics with CartograPlant (GWAS and GEA). Part 2 – Dr. Irene Cobo-Simon

1:15-1:30 Q&A

TPPS

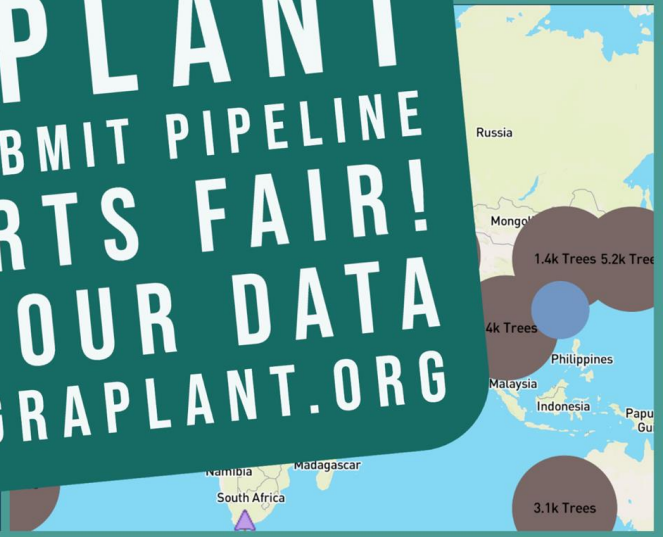
Tripal Plant PopGen Submit



SUBMIT GEOREFERENCED PLANTS (GXPXE)

* Study design metadata
* Genotype [SSR, SNP assays, GBS]
* Phenotypes [measures & description]
* Environment [measures & layers]

THE PLANT POPGEN SUBMIT PIPELINE SUPPORTS FAIR! VIEW YOUR DATA @CARTOGRAPLANT.ORG



Why do we need a submission pipeline?

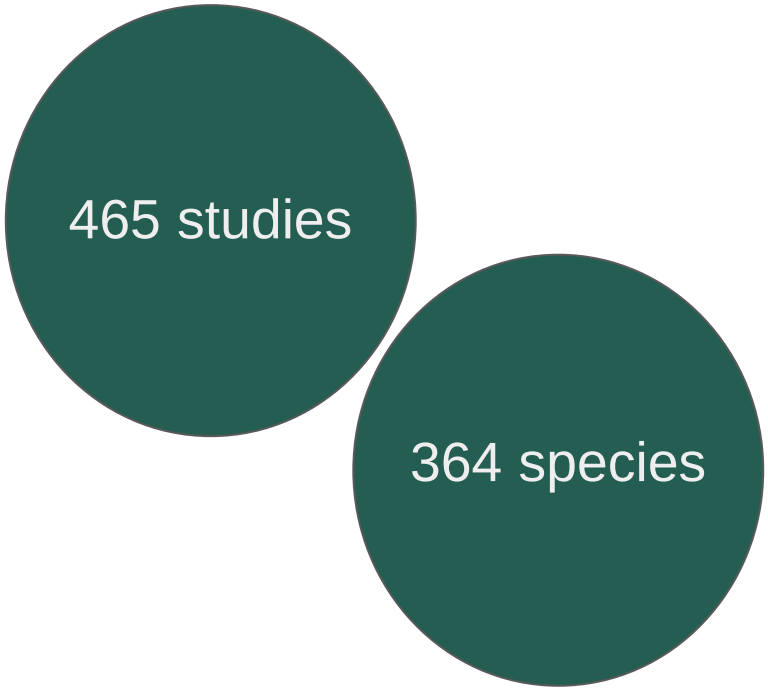
TPPS

Forest type	№ of the Sample plot	Coordinate (Longitude)	Coordinate (Latitude)	№ of the Model tree	age (years)	H[1] (m)	LCr[3] (m)	LCr (%)	h, m	C.A., years
Lingonberry pine forest	SP9	62.478222	33.80600	M1	70	22	8	35	0	66
									2	61
									5	45
									8	32
									11	25
				M2	70	20	8	41	0	66
									2	53
									5	40
									8	25
				M3	68	20	10	52	0	64
									2	55
									5	41
									8	29
									11	25
	SP1	62.29675	34.008806	M1	80	20	6	28	0	76
									2	69
									5	56
									8	46
									11	37
				M2	79	20	5	24	0	75
									2	63
									5	53
									8	42
									11	32
				M3	76	20	8	40	0	72
									2	64
									5	52
									7	47
				M4	76	20	9	46	0	72
									2	67
									5	52
									8	44

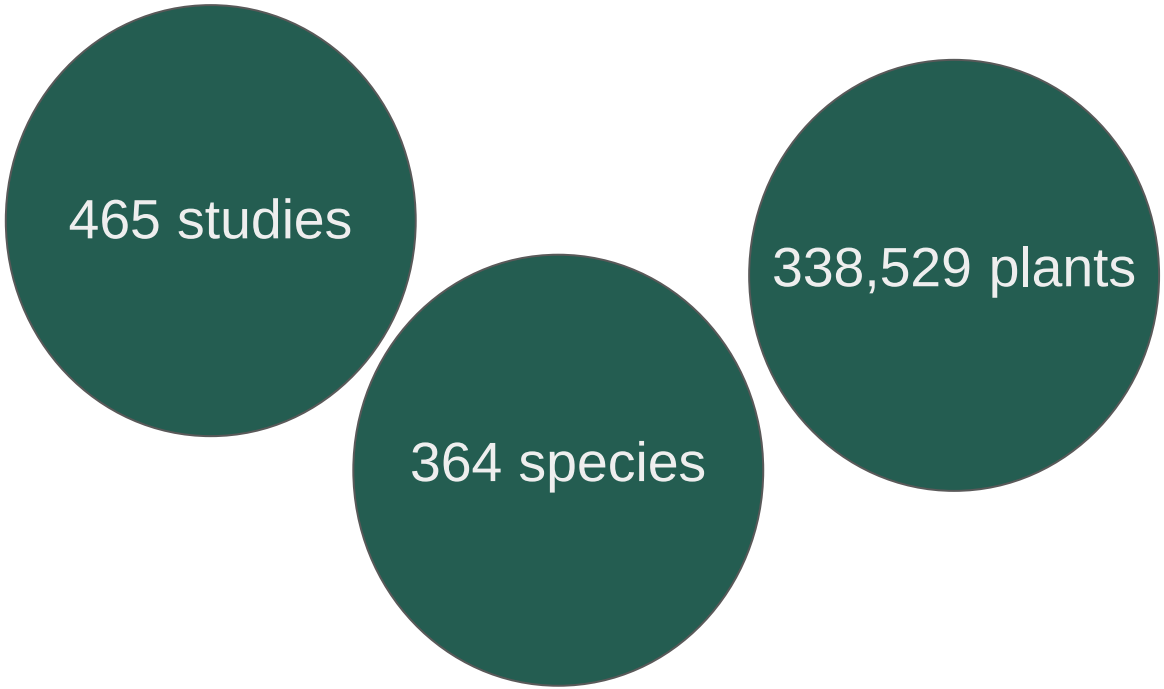
```
# The dataset is arranged as follows:
# First Column: The spatial location of the time series
# Second Column: Number of each pine sampled within every plo
# Third Column: Variable measured: Deer population size and Sun
# Fourth to 17th Column: data value for each variable and year fro

Spatial location;Pine;Variable;1993;1994;1995;1996;1997;1998;1999
Landscape;-;Deer population size;231;278;338;409;511;656;858;18
Landscape;-;Summer rainfall;109;25;14;112;59;33.1;27;17;13;0;57.2
Boleta_treeline;-;Herbivory intensity;3.125;12.5;21.875;15.625;3.33
Fonfria_treeline;-;Herbivory intensity;0;0;0;0;0;6.451612903;12.903
Boleta_woodland_P.Sylvestris;-;Herbivory intensity;6.741573034;5.
Boleta_woodland_P.Nigra;-;Herbivory intensity;7.272727273;5.4545
Fonfria_woodland;-;Herbivory intensity;0;0;0;0;0;7.692307692;7.692
Boleta_treeline;1;Age;8;9;10;11;12;13;14;15;16;17;18;19;20;21;22;23
Boleta_treeline;2;Age;8;9;10;11;12;13;14;15;16;17;18;19;20;21;22;23
Boleta_treeline;3;Age;10;11;12;13;14;15;16;17;18;19;20;21;22;23;24;
Boleta_treeline;4;Age;13;14;15;16;17;18;19;20;21;22;23;24;25;26;27;
Boleta_treeline;5;Age;7;8;9;10;11;12;13;14;15;16;17;18;19;20;21;22
Boleta_treeline;6;Age;11;12;13;14;15;16;17;18;19;20;21;22;23;24;25;
Boleta_treeline;7;Age;12;13;14;15;16;17;18;19;20;21;22;23;24;25;26;
Boleta_treeline;8;Age;14;15;16;17;18;19;20;21;22;23;24;25;26;27;28;
Boleta_treeline;9;Age;12;13;14;15;16;17;18;19;20;21;22;23;24;25;26;
```

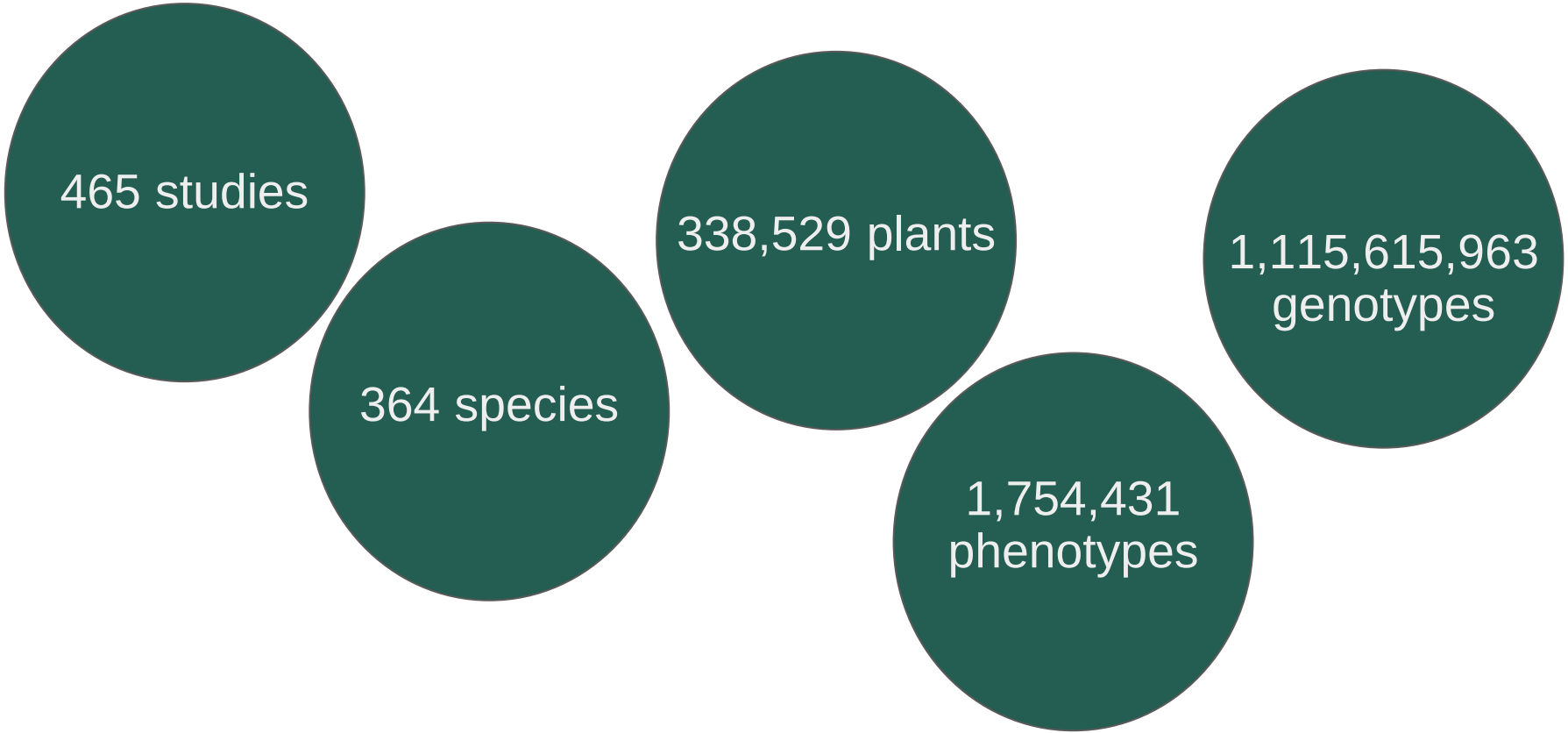
TPPS



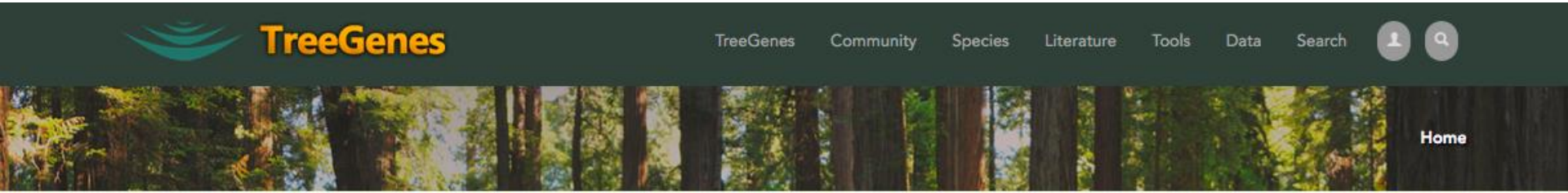
TPPS



TPPS


465 studies
364 species
338,529 plants
1,754,431 phenotypes
1,115,615,963 genotypes

TPPS Submission



Create new account | Log in | Request new password

Email *

Enter your TreeGenes email address

esgrau@gmail.com

Password *

Enter the password that accompanies your username.

••••••••

LOG IN

USER MENU

Submit PopGen Data >

MEETINGS

XXVI IUFRO WORLD CONGRESS 2024 (Stockholm)
June 23 to 29 2024
Stockholm, Sweden

- View more meetings

TreeGenes

TreeGenes | Community | Species | Literature | Tools | Data | Search

- Data Submission
- JBrowse
- Comparative Map Viewer
- DiversiTree
- CartograTree
- TSeq: Tripal Sequence Similarity Search
- Galaxy

View | Edit | Manage display | Devel

Welcome to TreeGenes

You're now logged in and ready to go!

Add/Edit Profile

Add/Edit Workshop/Conference

Add/Edit Employment Listings

- Add Job Listing
- Add Meeting/Conference
- Submit PopGen Data
- Submit Genetic Map
- Log out of TreeGenes

MEETINGS

7th IUFRO International Workshop on the Genetics of Tree-Parasite Interactions in Forestry Understanding forest tree-antagonistic interactions in a changing world
September 21 to 25 2022
Pontevedra,Spain

- View more meetings

tps://treegenesdb.org/submit/transition

TreeGenes

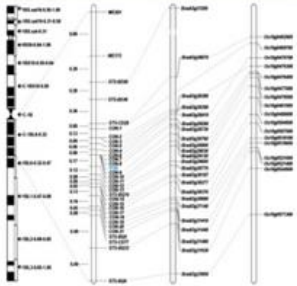
TreeGenes | Community | Species | Literature | **Tools** | Data | Search

Home > Tools

View | Edit | Manage display | Devel

TREEGENES DATA SUBMISSION

Plant PopGen Submission



Genetic Map Submission

USER MENU

- View Profile
- Edit Profile
- Add Job Listing
- Add Meeting/Conference
- Submit PopGen Data
- Submit Genetic Map
- Log out of TreeGenes

MEETINGS

7th IUFRO International Workshop on the Genetics of Tree-Parasite Interactions in Forestry Understanding forest tree-antagonistic interactions in a changing world
September 21 to 25 2022
Pontevedra,Spain

- View more meetings

https://treegenesdb.org/tops

TPPS DOCUMENTATION | TPPS STUDIES | CARTOGRAPLANT

Would you like to load an old TPPS submission, or create a new one? Create new TPPS Submission

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Specify a custom accession number. This feature is available only to users with administrative access, and required or recommended

SUBMIT DATA

genus is driven by #elevation: a case study in #NewGuinean #Ficus By: S. T. Segar, M. Volf, J. Zima Jnr, B. Isua, M. Sisol, L. Sam, et al. #TGDR603 has 697

TreeGenes
@TreeGenes · 22h

FEATURED STUDY: #Speciation in a keystone plant genus is driven by #elevation: a case study in #NewGuinean #Ficus By: S. T. Segar, M. Volf, J. Zima Jnr, B. Isua, M. Sisol, L. Sam, et al. #TGDR603 has 697 #plants in

CONTACT US

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Plant Computational Genomics Lab
181 Auditorium Rd
Storrs CT 06269-3214
treegenesdb@gmail.com

OTHER TREE DATABASES

- Hardwood Genomics Project
- Genome Database for Roseaceae
- PLAZA Plant Comparative Genomics
- 1000 Plant Transcriptomes (1KP)
- Congenie

FUNDING SOURCES

HOW TO REFERENCE TREEGENES

Received: 6 January 2020 | Revised: 23 April 2020 | Accepted: 11 May 2020

DOI: 10.1111/1755-0998.13191

RESOURCE ARTICLE

MOLECULAR ECOLOGY RESOURCES WILEY

Combining genotype, phenotype, and environmental data to delineate site-adjusted provenance strategies for ecological restoration

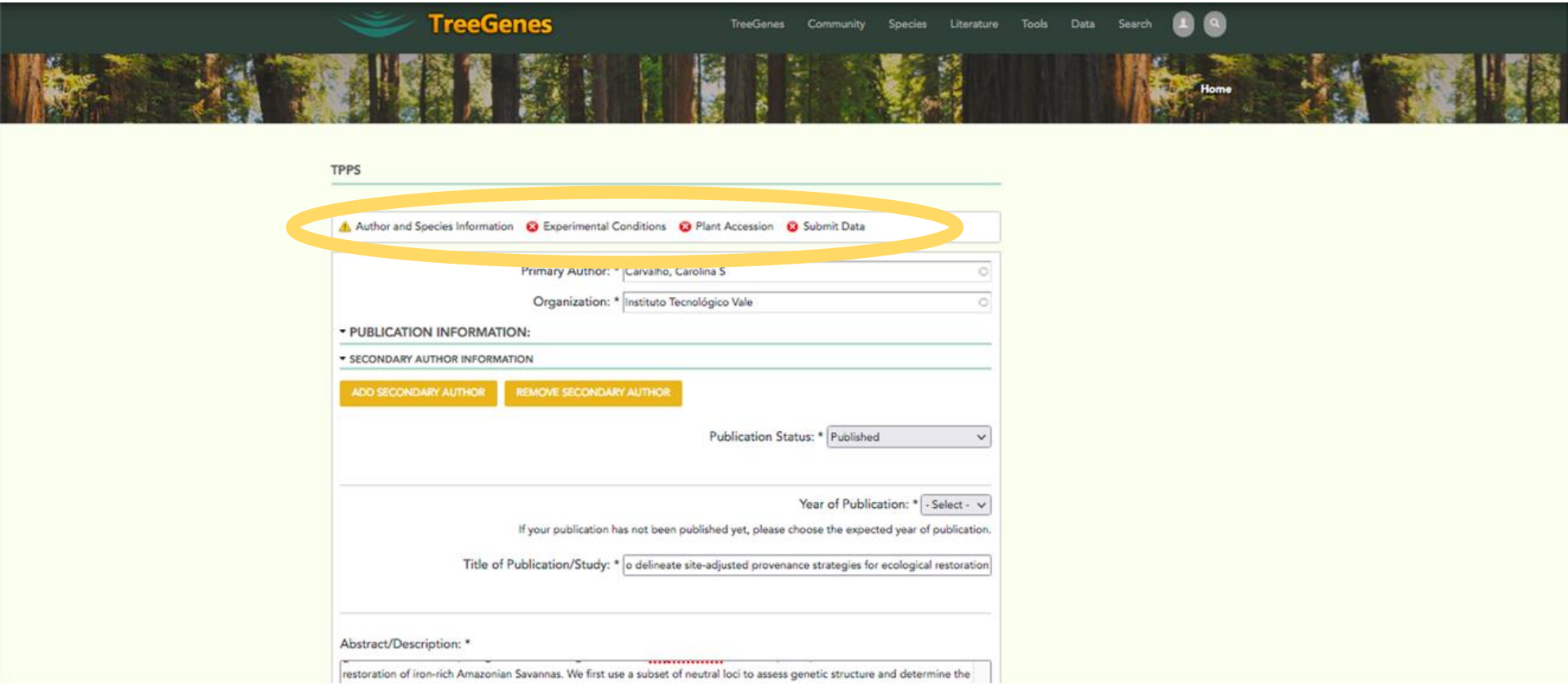
Carolina S. Carvalho[1,2] | Brenna R. Forester[3] | Simone K. Mitre[1] | Ronnie Alves[1] | Vera L. Imperatriz-Fonseca[1] | Silvio J. Ramos[1] | Luciana C. Resende-Moreira[1] | José O. Siqueira[1,4] | Leonardo C. Trevelin[1] | Cecilio F. Caldeira[1] | Markus Gastauer[1] | Rodolfo Jaffé[1,5]

[1]Instituto Tecnológico Vale, Belém, Pará, Brazil

[2]Departamento de Genética e Evolução, Universidade Federal de São Carlos,

Abstract

Despite the importance of climate-adjusted provenancing to mitigate the effects of environmental change, climatic considerations alone are insufficient when restoring


TreeGenes
TreeGenes
Community
Species
Literature
Tools
Data
Search
Home
TPPS
Author and Species Information
Experimental Conditions
Plant Accession
Submit Data
Primary Author: * Carvalho, Carolina S
Organization: * Instituto Tecnológico Vale
PUBLICATION INFORMATION:
SECONDARY AUTHOR INFORMATION
ADD SECONDARY AUTHOR
REMOVE SECONDARY AUTHOR
Publication Status: * Published
Year of Publication: * - Select -
If your publication has not been published yet, please choose the expected year of publication.
Title of Publication/Study: * o delineate site-adjusted provenance strategies for ecological restoration
Abstract/Description: *
restoration of iron-rich Amazonian Savannas. We first use a subset of neutral loci to assess genetic structure and determine the

Abstract/Description: *

restoration of iron-rich Amazonian Savannas. We first use a subset of neutral loci to assess genetic structure and determine the genetic neighbourhood size. We then identify genotype-phenotype-environment associations, map adaptive genetic variation, and predict adaptive genotypes for restoration sites. Whereas local provenances were found optimal to restore a moderately disturbed site, a mixture of genotypes seemed the most promising strategy to recover a highly degraded mining site. We discuss how our results can help define site-adjusted provenancing strategies, and argue that our methods can be more broadly applied to assist other restoration initiatives.

Journal: * Molecular Ecology Resources

▾ STUDY COVER PHOTO: (OPTIONAL)

Please upload a cover photo for your study. This photo will be displayed at the top of the landing page of the study.

Browse... No file selected. UPLOAD

▾ ORGANISM INFORMATION:

ADD ORGANISM REMOVE ORGANISM

Species 1

Dioclea apurensis

☐ This species is a tree.

Species 2

Mimosa acutistipula var. fer- rea

If your species is not in the autocomplete list, don't worry about it! We will create a new organism entry in the database for you.

☑ This species is a tree.

* : Required Field

TPPS

Author and Species Information | Experimental Conditions | Plant Accession | Submit Data

EXPERIMENT/ANALYSIS DATES

Starting Year: * 2018

Starting Month: * February

Ending Year: * 2018

Ending Month: * May

STUDY DESIGN

Data Type: * Genotype x Environmental layers

Study Type: * Natural Population (Landscape)

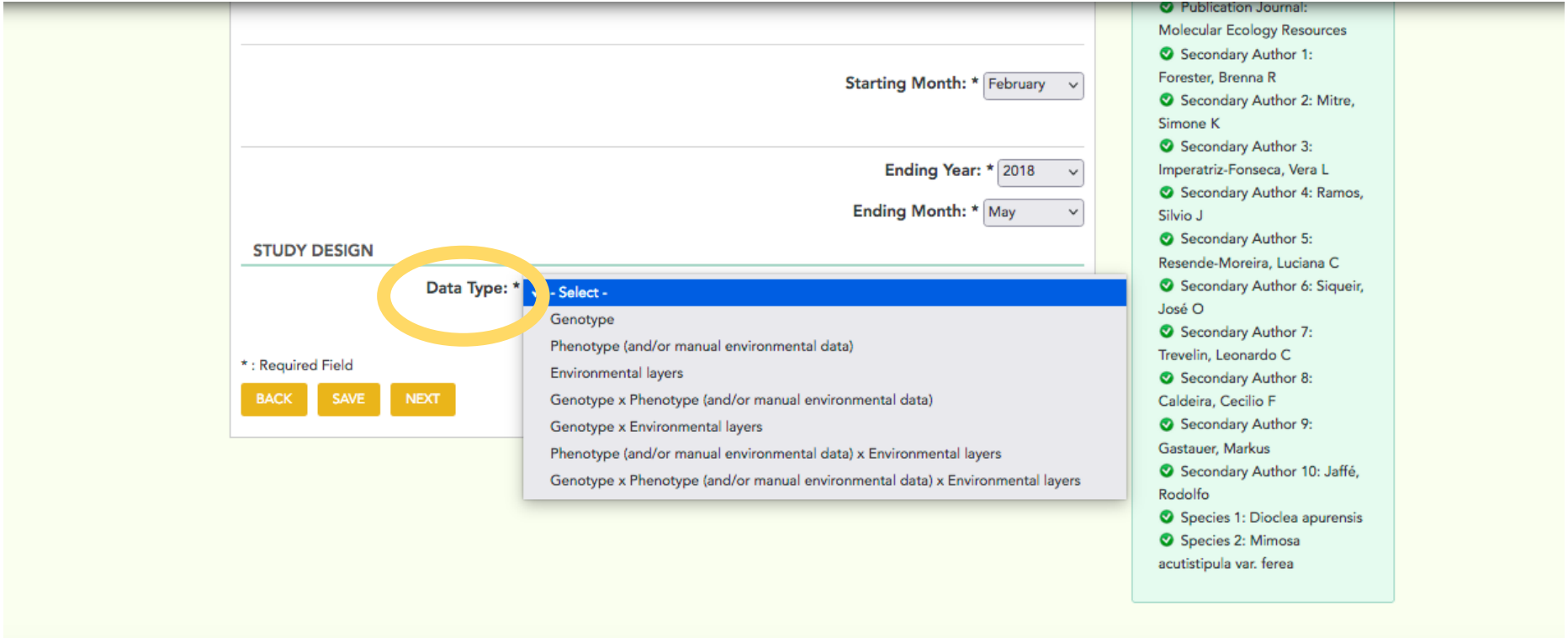
NATURAL POPULATION/LANDSCAPE INFORMATION:

Seasons (select all that apply): *

- [ ] Spring
- [ ] Summer
- [ ] Fall
- [ ] Winter

If you do not know which season your samples were collected, please select all.

- Publication Title: Combining genotype, phenotype, and environmental data to delineate site-adjusted provenance strategies for ecological restoration
- Primary Author: Grau, Emily
- Publication Status: Published
- Publication Journal: Molecular Ecology Resources
- Secondary Author 1: Forester, Brenna R
- Secondary Author 2: Mitre, Simone K
- Secondary Author 3: Alves, Ronnie
- Secondary Author 4: Imperatriz-Fonseca, Vera L
- Secondary Author 5: Ramos, Silvio J
- Secondary Author 6: Resende-Moreira, Luciana C
- Secondary Author 7: Siqueir, José O
- Secondary Author 8: Trevelin, Leonardo C
- Secondary Author 9: Caldeira, Cecilio F
- Secondary Author 10: Gastauer, Markus
- Secondary Author 11: Jaffé, Rodolfo
- Species 1: Dioclea apurensis
- Species 2: Mimosa acutistipula var. ferea


Starting Month: * February
Ending Year: * 2018
Ending Month: * May
STUDY DESIGN
Data Type: *
- Select -
Genotype
Phenotype (and/or manual environmental data)
Environmental layers
Genotype x Phenotype (and/or manual environmental data)
Genotype x Environmental layers
Phenotype (and/or manual environmental data) x Environmental layers
Genotype x Phenotype (and/or manual environmental data) x Environmental layers
* : Required Field
BACK
SAVE
NEXT
Publication Journal: Molecular Ecology Resources
Secondary Author 1: Forester, Brenna R
Secondary Author 2: Mitre, Simone K
Secondary Author 3: Imperatriz-Fonseca, Vera L
Secondary Author 4: Ramos, Silvio J
Secondary Author 5: Resende-Moreira, Luciana C
Secondary Author 6: Siqueir, José O
Secondary Author 7: Trevelin, Leonardo C
Secondary Author 8: Caldeira, Cecilio F
Secondary Author 9: Gastauer, Markus
Secondary Author 10: Jaffé, Rodolfo
Species 1: Dioclea apurensis
Species 2: Mimosa acutistipula var. ferea

Starting Month: * February

Ending Year: * 2018

Ending Month: * May

STUDY DESIGN

Data Type: * Genotype x Phenotype (and/or manual environmental data) x Environmental layers

Study Type: * - Select -

- Natural Population (Landscape)
- Growth Chamber
- Greenhouse
- Experimental/Common Garden
- Plantation

* : Required Field

BACK SAVE NEXT

- Publication Journal: Molecular Ecology Resources
- Secondary Author 1: Forester, Brenna R
- Secondary Author 2: Mitre, Simone K
- Secondary Author 3: Imperatriz-Fonseca, Vera L
- Secondary Author 4: Ramos, Silvio J
- Secondary Author 5: Resende-Moreira, Luciana C
- Secondary Author 6: Siqueir, José O
- Secondary Author 7: Trevelin, Leonardo C
- Secondary Author 8: Caldeira, Cecilio F
- Secondary Author 9: Gastauer, Markus
- Secondary Author 10: Jaffé, Rodolfo
- Species 1: Dioclea apurensis
- Species 2: Mimosa acutistipula var. ferea

Study Type: * Experimental/Common Garden

COMMON GARDEN INFORMATION:

Irrigation Type: * - Select -

Salinity controlled or uncontrolled: * - Select -

Biotic Environment: *

- Herbivores
- Mutulists
- Pathogens
- Endophytes
- Other
- None

Seasons: *

- Secondary Author 7: Trevelin, Leonardo C
- Secondary Author 8: Caldeira, Cecilio F
- Secondary Author 9: Gastauer, Markus
- Secondary Author 10: Jaffé, Rodolfo
- Species 1: Dioclea apurensis
- Species 2: Mimosa acutistipula var. ferea

Study Type: * Natural Population (Landscape)

NATURAL POPULATION/LANDSCAPE INFORMATION:

Seasons (select all that apply): *

- [x] Spring
- [ ] Summer
- [ ] Fall
- [ ] Winter

If you do not know which season your samples were collected, please select all.

Number of times the populations were assessed (on average): * 1

* : Required Field

BACK SAVE NEXT

Ronnie
- Secondary Author 4: Imperatriz-Fonseca, Vera L
- Secondary Author 5: Ramos, Silvio J
- Secondary Author 6: Resende-Moreira, Luciana C
- Secondary Author 7: Siqueir, José O
- Secondary Author 8: Trevelin, Leonardo C
- Secondary Author 9: Caldeira, Cecilio F
- Secondary Author 10: Gastauer, Markus
- Secondary Author 11: Jaffé, Rodolfo
- Species 1: Dioclea apurensis
- Species 2: Mimosa acutistipula var. ferea

Allowed file extensions: txt csv xlsx

Cood_Dioclea.csv REMOVE

File Upload empty field: NA

By default, TPPS will treat cells with the value "NA" as empty. If you used a different empty value indicator, please provide it here.

▾ DEFINE DATA

Please define which columns hold the required data: Plant Identifier and Location. If your plants are located based on a population group, you can provide the population group column and a mapping of population group to location below.

Sample_ID	Species	Location	Latitude	Lo
Plant Identifier	N/	Population Group	Latitude	Longitude
CC023_	Dioclea_apurensis	N1	-6.027033	-!
CC046_sorted	Dioclea_apurensis	N8	-6.164267007261515	-50.1610169
CC063_sorted	Dioclea_apurensis	N8	-6.1730229947716	-50.1512239

Please note that if you remain idle on a TPPS page with files for more than 6 hours, you run the risk of having those files reset if you do not click "Save".

☐ My file has no header row

Coordinate Projection WGS 84

CLICK HERE TO VIEW PLANTS ON MAP!

☐ The provided GPS coordinates are exact

Coordinates accuracy:

The precision of the provided coordinates. For example, if a plant could be up to 10m awa from the provided coordinates, then the accuracy would be "10m".

Mimosa acutistipula var. ferea Accession File: *

- Species 1: Dioclea apurensis
- Species 2: Mimosa acutistipula var. ferea

- Step 2 - Complete Experimental Conditions

- Experiment Starting Date: February 2018
- Experiment Ending Date: May 2018
- Data Type: Genotype x Environment
- Study Type: Natural Population (Landscape)

Allowed file extensions: txt csv xlsx

Cood_Dioclea.csv REMOVE

File Upload empty field: NA

By default, TPPS will treat cells with the value "NA" as empty. If you used a different empty value indicator, please provide it here.

▾ DEFINE DATA

Please define which columns hold the required data: Plant Identifier and Location. If your plants are located based on a population group, you can provide the population group column and a mapping of population group to location below.

Sample_ID	Species	Location	Latitude	Lo
Plant Identifier	N/A	Population Group	Latitude	Longitude
CC023_sorted	Dioclea_apurensis	N1	-6.027033	-!
CC046_sorted	Dioclea_apurensis	N8	-6.164267007261515	-50.1610169
CC063_sorted	Dioclea_apurensis	N8	-6.1730229947716	-50.1512239

Please note that if you remain idle on a TPPS page with files for more than 6 hours, you run the risk of having those files reset if you do not click "Save".

☐ My file has no header row

Coordinate Projection WGS 84

CLICK HERE TO VIEW PLANTS ON MAP!

☐ The provided GPS coordinates are exact

...es accuracy:

The precision of the provided coordinates. For example, if a plant could be up to 10m awa from the provided coordinates, then the accuracy would be "10m".

Mimosa acutistipula var. ferea Accession File: *

- Species 1: Dioclea apurensis
- Species 2: Mimosa acutistipula var. ferea

- Step 2 - Complete Experimental Conditions

- Experiment Starting Date: February 2018
- Experiment Ending Date: May 2018
- Data Type: Genotype x Environment
- Study Type: Natural Population (Landscape)

Please note that if you remain idle on a TPPS page with files for more than 6 hours, you run the risk of having those files reset if you do not click "Save".

☐ My file has no header row

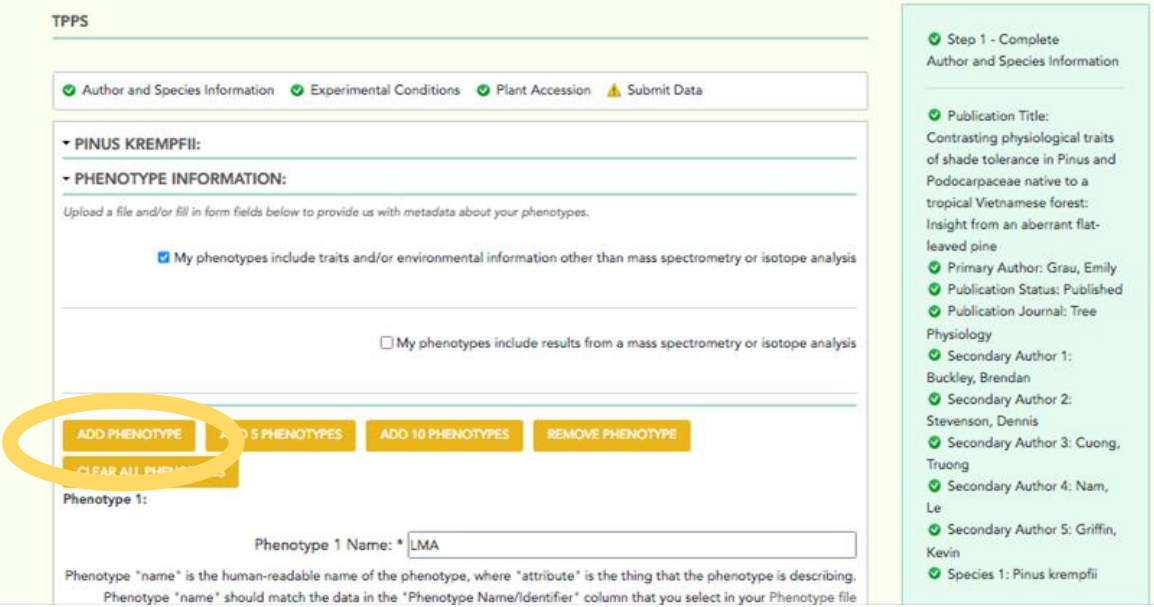
Coordinate Projection WGS 84

CLICK HERE TO VIEW PLANTS ON MAP!

☑ The provided GPS coordinates are exact

Mimosa acutistipula var. ferea Accession File: *

Please upload a spreadsheet file containing plant population data. When your file is uploaded, you will be shown a table with your column header names, several drop-downs, and the first few rows of your file. You will be asked to define the data type for each column, using the drop-downs provided to you. If a column data type does not fit any of the options in the drop-down menu, you may omit that drop-down menu. Your


TPPS
Author and Species Information
Experimental Conditions
Plant Accession
Submit Data
PINUS KREMPFII:
PHENOTYPE INFORMATION:
Upload a file and/or fill in form fields below to provide us with metadata about your phenotypes.
My phenotypes include traits and/or environmental information other than mass spectrometry or isotope analysis
My phenotypes include results from a mass spectrometry or isotope analysis
ADD PHENOTYPE
ADD 5 PHENOTYPES
ADD 10 PHENOTYPES
REMOVE PHENOTYPE
Phenotype 1:
Phenotype 1 Name: * LMA
Phenotype "name" is the human-readable name of the phenotype, where "attribute" is the thing that the phenotype is describing.
Phenotype "name" should match the data in the "Phenotype Name/Identifier" column that you select in your Phenotype file
Step 1 - Complete Author and Species Information
Publication Title: Contrasting physiological traits of shade tolerance in Pinus and Podocarpaceae native to a tropical Vietnamese forest: Insight from an aberrant flat-leaved pine
Primary Author: Grau, Emily
Publication Status: Published
Publication Journal: Tree Physiology
Secondary Author 1: Buckley, Brendan
Secondary Author 2: Stevenson, Dennis
Secondary Author 3: Cuong, Truong
Secondary Author 4: Nam, Le
Secondary Author 5: Griffin, Kevin
Species 1: Pinus krempfii

Phenotype "name" is the human-readable name of the phenotype, where "attribute" is the thing that the phenotype is describing. Phenotype "name" should match the data in the "Phenotype Name/Identifier" column that you select in your Phenotype file below.

☐ Phenotype 1 is an environmental phenotype

Phenotype 1 Attribute: * Weight

Phenotype 1 Description: * Leaf mass per area

Please provide a short description of Phenotype 1

Phenotype 1 Units: * My unit is not in this list

Phenotype 1 Custom Units: * grams per meter squared

Some examples of units include: "m", "meters", "in", "inches", "Degrees Celsius", "°C", etc.

☐ Phenotype 1 has a value range

☐ Phenotype 1 is a binary phenotype

Phenotype 1 Structure: * Leaf

Phenotype 2:

Phenotype 2 Name: *

Phenotype "name" is the human-readable name of the phenotype, where "attribute" is the thing that the phenotype is describing. Phenotype "name" should match the data in the "Phenotype Name/Identifier" column that you select in your Phenotype file below.

✓ Species 1: Pinus krempfii

✓ Step 2 - Complete Experimental Conditions

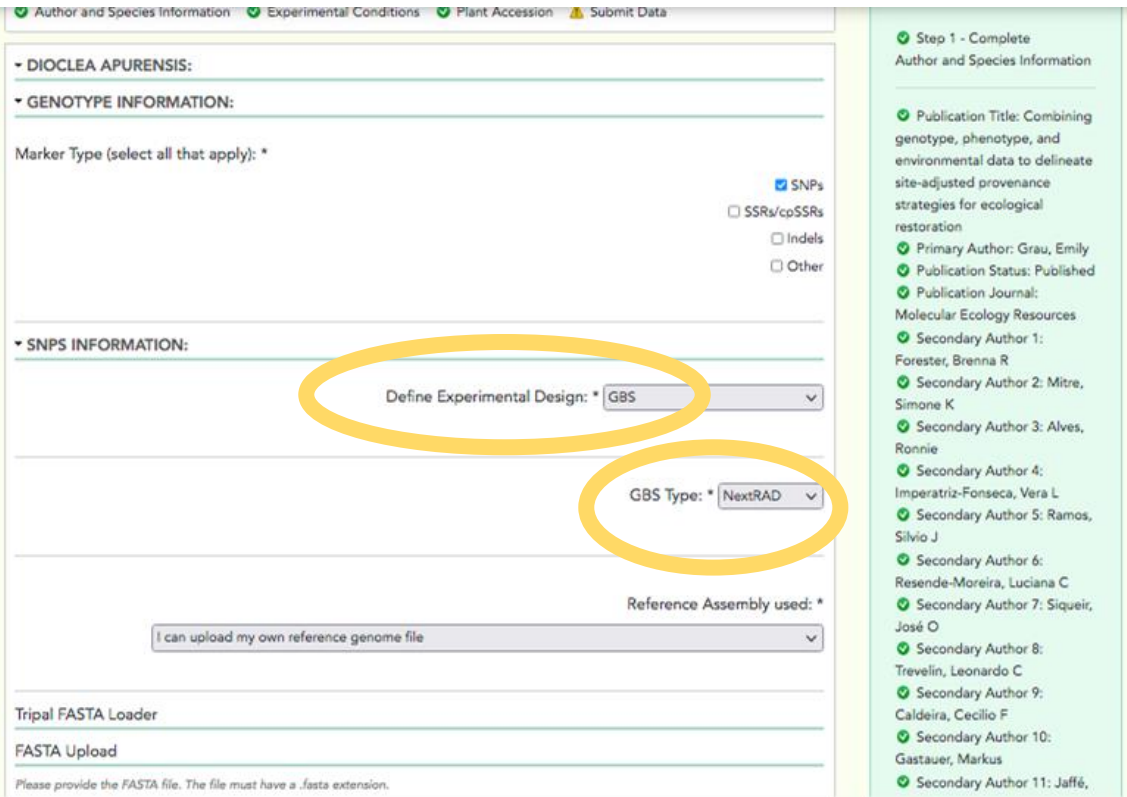
✓ Experiment Starting Date: January 2018
✓ Experiment Ending Date: December 2018
✓ Data Type: Phenotype
✓ Study Type: Natural Population (Landscape)

✓ Step 3 - Complete Plant Accession.

✓ Pinus krempfii Accession File: SSchmiege_Table1_leaftraits tree accessions.csv

Click here to view plants on map!

✓ Total number of plants: 55


Author and Species Information
Experimental Conditions
Plant Accession
Submit Data
DIOCLEA APURENSIS:
GENOTYPE INFORMATION:
Marker Type (select all that apply): *
SNPs
SSRs/cpSSRs
Indels
Other
SNPS INFORMATION:
Define Experimental Design: * GBS
GBS Type: * NextRAD
Reference Assembly used: *
I can upload my own reference genome file
Tripal FASTA Loader
FASTA Upload
Please provide the FASTA file. The file must have a .fasta extension.
Step 1 - Complete Author and Species Information
Publication Title: Combining genotype, phenotype, and environmental data to delineate site-adjusted provenance strategies for ecological restoration
Primary Author: Grau, Emily
Publication Status: Published
Publication Journal: Molecular Ecology Resources
Secondary Author 1: Forester, Brenna R
Secondary Author 2: Mitre, Simone K
Secondary Author 3: Alves, Ronnie
Secondary Author 4: Imperatriz-Fonseca, Vera L
Secondary Author 5: Ramos, Silvio J
Secondary Author 6: Resende-Moreira, Luciana C
Secondary Author 7: Siqueir, José O
Secondary Author 8: Trevelin, Leonardo C
Secondary Author 9: Caldeira, Cecilio F
Secondary Author 10: Gastauer, Markus
Secondary Author 11: Jaffé,

Reference Assembly used: *

I can upload my own reference genome file

Quercus robur vPM1N
Rhizophora apiculata v2.0
Sequoia sempervirens v2.1
Sequoiadendron giganteum v2.0
Shorea leprosula v1.0
Sonneratia caseolaris v1.0
Symphonia globulifera v1.0
Tectona grandis v1.0
Ulmus americana v2.0
Vernicia fordii v1.0
Vitis vinifera v145
Vitis vinifera v2.1
Xanthoceras sorbifolium v1.0
I can provide a URL to the website of my reference file(s)
I can provide a GenBank accession number (BioProject, WGS, TSA) and select assembly file(s) from a list
✓ I can upload my own reference genome file

Tripal FASTA Loader

FASTA Upload

Please provide the FASTA

Remember to click t
large files. If you are
the "Upload Progres
to "Complete".

Dioclea apurensis gen

Choose the analysis

Resende-Moreira, Luciana C
Secondary Author 7: Siqueir, José O
Secondary Author 8: Trevelin, Leonardo C
Secondary Author 9: Caldeira, Cecilio F
Secondary Author 10: Gastauer, Markus
Secondary Author 11: Jaffé, Rodolfo
Species 1: Dioclea apurensis
Species 2: Mimosa acutistipula var. ferea

Step 2 - Complete Experimental Conditions

Experiment Starting Date: February 2018
Experiment Ending Date: May 2018
Data Type: Genotype x Environment

Mimosa acutistipula var. ferea genome (BBMap tools 1,)

Choose the analysis to which the uploaded data will be associated. Why specify an analysis for a data load? All data comes from some place, even if downloaded from a website. By specifying analysis details for all data imports it provides provenance and helps end user to reproduce the data set if needed. At a minimum it indicates the source of the data.

Sequence Type scaffold

Please enter the Sequence Ontology (SO) term name that describes the sequences in the FASTA file (e.g. gene, mRNA, polypeptide, etc...)

EXTERNAL DATABASE REFERENCE

Genotype File Types (select all that apply): *

- [ ] SNPs Genotype Assay
- [x] VCF

Genotype VCF File: *

Browse... mimosa.vcf.gz UPLOAD

- [x] Environmental information for Mimosa acutistipula var. ferea is the same as environmental information for Dioclea apurensis.

* : Required Field

BACK SAVE REVIEW INFORMATION AND SUBMIT PRE-VALIDATE MY VCF FILES

Sometimes large VCF files can cause problems during the validation step. If your VCF file is very large, you can click the "Pre-validate my VCF files" button to validate your VCF file in the background, before clicking "Review Information and Submit".

Would you like to upload a SNP association file? Yes

Genotyping Type: * Genotyping Assay

SNP Association File: *

Browse... No file selected. UPLOAD

File Upload empty field: NA

By default, TPPS will treat cells with the value "NA" as empty. If you used a different empty value indicator, please provide it here.

My file has no header row

Please upload a spreadsheet file containing SNPs Association data. When your file is uploaded, you will be shown a table with your column header names, several drop-downs, and the first few rows of your file. You will be asked to define the data type for each column, using the drop-downs provided to you. If a column data type does not fit any of the options in the

Confidence Value Type: * P value

Association Analysis Tool: *

- Select -
GEMMA
EMMAX
Plink
Tassel
Sambada
Bayenv
BayeScan
LFMM

SNPs Population Structure File:

Browse... No file selected. U

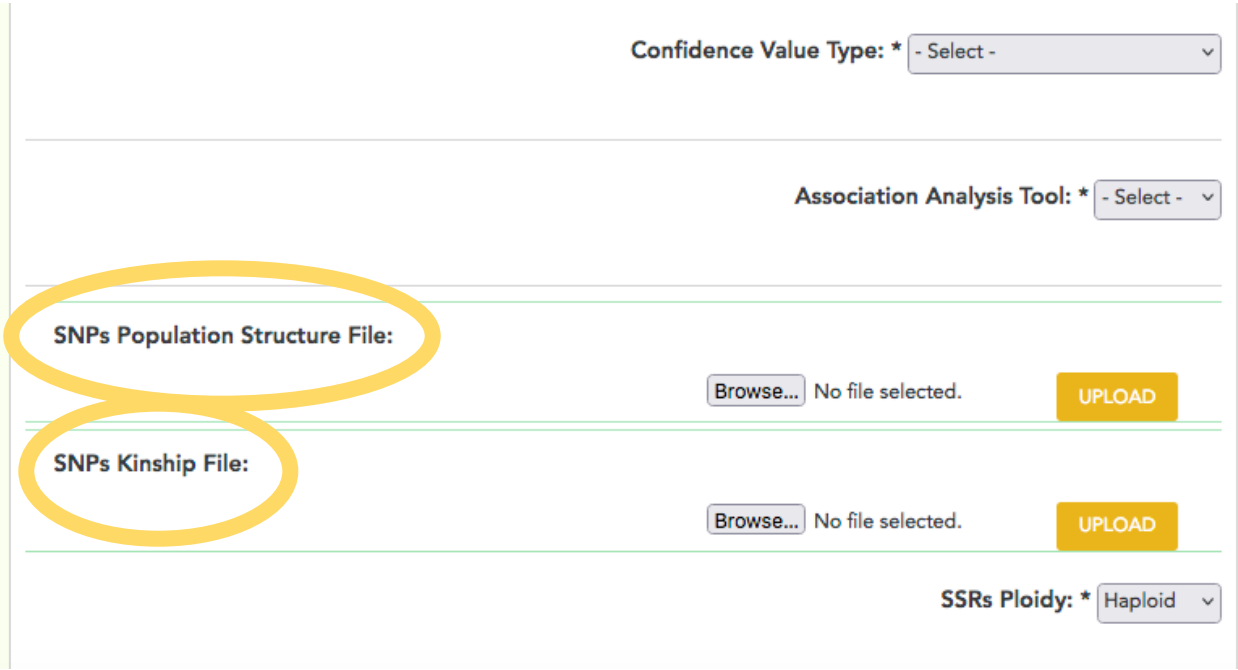
SNPs Kinship File:

Browse... No file selected. UPLOAD

▾ ENVIRONMENTAL INFORMATION:

CARTOGRAPLANT ENVIRONMENTAL LAYER GROUPS: *

PET and Aridity (Worldwide, CGIARCSI)


Confidence Value Type: * - Select -
Association Analysis Tool: * - Select -
SNPs Population Structure File:
Browse... No file selected.
UPLOAD
SNPs Kinship File:
Browse... No file selected.
UPLOAD
SSRs Ploidy: * Haploid

- [ ] **Mean Diurnal Range** - Climatic variables (World, WorldClim v.2)
- [ ] **Mean Annual Precipitation** - Climatic variables (World, WorldClim v.2)
- [ ] **Average Temp January** - Climatic variables (World, WorldClim v.2)
- [ ] **Average Temp February** - Climatic variables (World, WorldClim v.2)
- [x] **Isothermality** - Climatic variables (World, WorldClim v.2)
- [ ] **Mean Annual Temperature** - Climatic variables (World, WorldClim v.2)
- [ ] **Precipitation January** - Climatic variables (World, WorldClim v.2)
- [ ] **Temperature Seasonality** - Climatic variables (World, WorldClim v.2)
- [ ] **Average Temp March** - Climatic variables (World, WorldClim v.2)

Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in Populus

You can view the TPPS Details page with completed and approved TPPS and TGDR data here

Field	Value
files	
Publication DOI	10.1038/s41598-017-01893-z
Publication Title	Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in Populus
Primary Author	Athena D. McKown
Organization	University of British Columbia (Vancouver)
Publication Status	Published
Publication Abstract	The evolution of sexual dimorphism and expansio...
Publication Journal	Nature
Species 1	Populus trichocarpa
Species 2	Populus balsamifera
Data Type	Genotype x Phenotype
Study Type	Experimental/Common Garden

MEETINGS

7th IUFRO International Workshop on the Genetics of Tree-Parasite Interactions in Forestry Understanding forest tree-antagonistic interactions in a changing world
September 21 to 25 2022
Pontevedra,Spain

- View more meetings

Incomplete Submissions

Title	Primary Author	Number of Species	Abstract	Journal	
Data from: Landscape genomics of Populus trichocarpa: the role of hybridization, limited gene flow and natural selection in shaping patterns of population structure	Armando J. M. Geraldes	2	Populus trichocarpa is an ecologically important t...		Delete
Genome-wide association implicates numerous genes underlying ecological trait variation in natural populations of Populus trichocarpa	Athena McKown	1	In order to uncover the genetic basis of phenotypi...	New Phytologist	Delete
SNP dataset for Buchenavia oxycarpa	Alison Nazareno	1	<p>Wallace's (1854) Riverine Barrier hypot...		Delete

Complete Submissions

Title	Primary Author	Number of Species	Abstract	Journal	Status
Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in Populus	thena D. Kown	2	The evolution of sexual dimorphism and expansion of sex chromosomes are both	Nature	Approved

Add Job Listing
Add Meeting/Conference
Submit PopGen Data
Submit Genetic Map
Log out of TreeGenes

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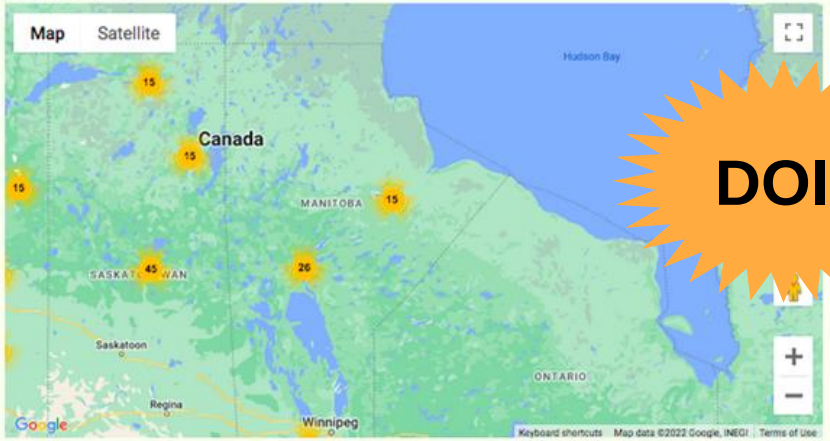
- View more meetings

LATEST LITERATURE

Genomic and common garden approaches yield

Return to TPPS Details



DOI!

GENOMIC DIVERSITY, POPULATION STRUCTURE, AND MIGRATION FOLLOWING RAPID RANGE EXPANSION IN THE BALSAM POPLAR, POPULUS BALSAMIFERA

TPPS Genotype

Keller et al 2010 published in Molecular Ecology

Click to show abstract
View in CartograPlant
Download compressed raw files

Species | Study Details | Plants | Genotypes

Accession	TGDR475
Title	Genomic diversity, population structure, and migration following rapid range expansion in the Balsam Poplar, Populus balsamifera
Authors	Stephen R. Keller
Species	Populus balsamifera
Data Type	Genotype
Study Type	Experimental/Common Garden
File Downloads	TGDR475_Plant_Accession_Populus_balsamifera.xlsx TGDR475_Genotype_SNPs_Assay_Populus_balsamifera.xlsx

JOB POSTINGS

Assistant/Associate Professor in Forest Genetics/Tree Improvements: North Carolina State University

Postdoctoral Researcher, Harold Fellow in Tree Genomics: The Morton Arboretum

- View more job postings

Tweets from @TreeGenes

Tre... · Aug 19

FEATURED STUDY: #Speciation in a keystone plant genus is driven by #elevation: a case study in #NewGuinean #Ficus By: S. T. Segar, M. Volf, J. Zima Jnr, B. Isua, M. Sisol, L. Sam, et al. #TGDR603 has 697

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TPPS | Genotype

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Species | Study Details | Plants | Genotypes

1 2 3 4 5 6 7 8 9 ... last » next ›

Plant	Name	Description	Marker Type
CAR05	SNP-243984-Poba-TT	TT	SNP
CAR05	SNP-244580-Poba-GG	GG	SNP
CAR05	SNP-246015-Poba-AA	AA	SNP
CAR05	SNP-247000-Poba-CC	CC	SNP
CAR05	SNP-247156-Poba-TT	TT	SNP
CAR05	SNP-249554-Poba-AA	AA	SNP
CAR05	SNP-250398-Poba-TT	TT	SNP
CAR05	SNP-250803-Poba-CC	CC	SNP
CAR05	SNP-250899-Poba-TT	TT	SNP
CAR05	SNP-251417-Poba-CC	CC	SNP

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Authors	Stephen R. Keller
Species	Populus balsamifera
Data Type	Genotype
Study Type	Experimental/Common Garden
File Download	TGDR475_Plant_Accession_Populus_balsamifera.xlsx TGDR475_Genotype_SNPs_Assay_Populus_balsamifera.xlsx
Population Size	474

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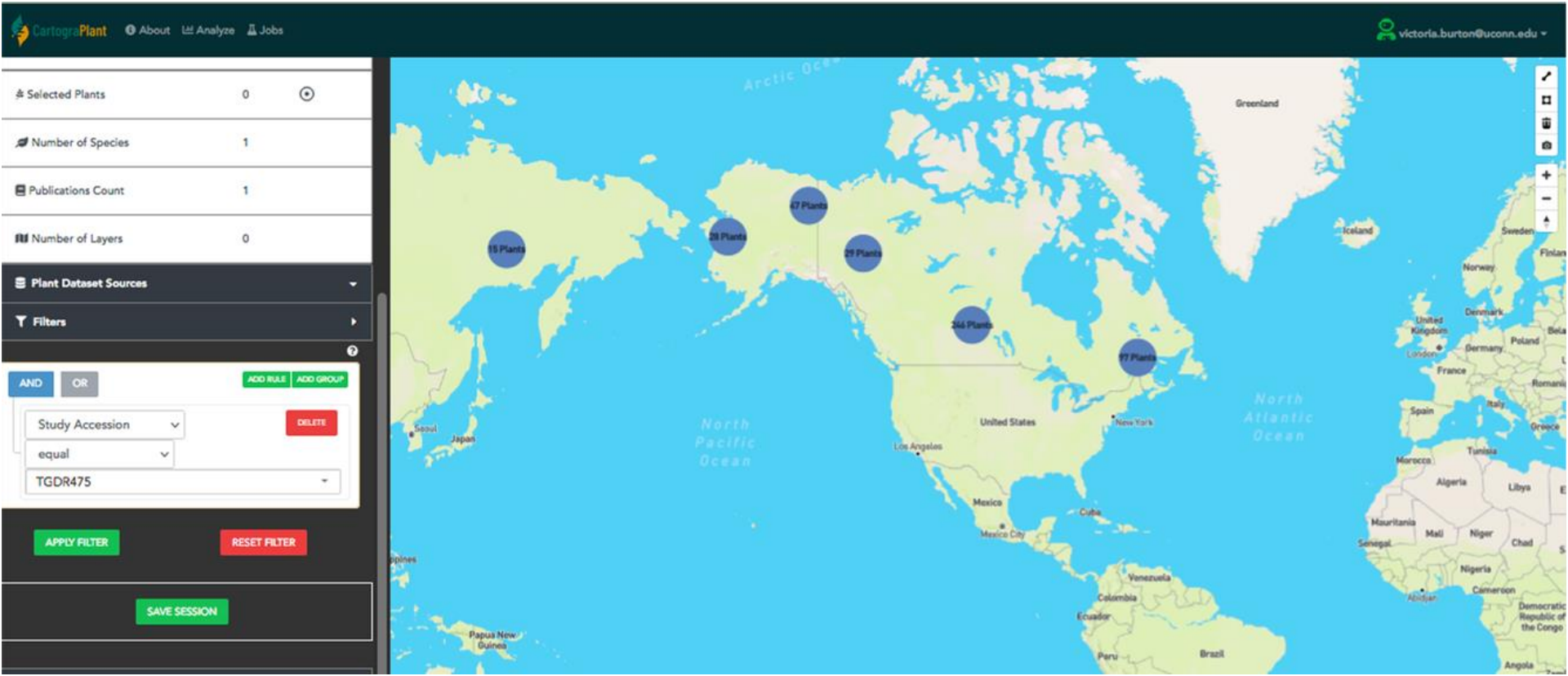
CartograPlant
About
Analyze
Jobs
victoria.burton@uconn.edu
Selected Plants 0
Number of Species 1
Publications Count 1
Number of Layers 0
Plant Dataset Sources
Filters
AND
OR
ADD RULE
ADD GROUP
Study Accession
DELETE
equal
TGDR475
APPLY FILTER
RESET FILTER
SAVE SESSION
15 Plants
28 Plants
47 Plants
29 Plants
246 Plants
97 Plants
Arctic Ocean
Greenland
Iceland
Sweden
Norway
Finland
Denmark
United Kingdom
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France
Spain
Italy
Greece
Tunisia
Morocco
Algeria
Libya
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Niger
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Peru
Brazil
Seoul
Japan
Papua New Guinea

Funded by USDA-NIFA #2018-09223
Funded by AG2PI

Thank You!

TPPS

Risharde Ramnath

Peter Richter

Vlad Savitsky

Curation

Victoria Burton

Meghan Myles

Madison Gadomski

Isabella Harding

Fearless Leader

Jill Wegrzyn

Today's Schedule (in EST!)

11:00-11:20 Introduction to CartograPlant - Dr. Jill Wegrzyn

11:20-11:40 Introduction to Data Submission with TPPS/TPPSc - Emily Grau

11:40-12:00 Introduction to Data Collection/Mobile Phenotyping with TreeSnap - Dr. Margaret Staton

12:00-12:15 Break

12:15-12:35 Behind the Scenes of CartograPlant - Environmental Layers and Data - Risharde Ramnath

12:35-12:55 Analytics with CartograPlant (GWAS and GEA). Part 1 - Gabriel Barrett

12:55-1:15 Analytics with CartograPlant (GWAS and GEA). Part 2 – Dr. Irene Cobo-Simon

1:15-1:30 Q&A