

# Welcome to UF Faculty Research Expertise

Helping faculty find research partners  
and new ways to collaborate.

Academic Analytics, Discovery Suite

Sept 2018

# Goals

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- Promote faculty expertise to external stakeholders
- Encourage research collaboration, new discoveries
- Expand the research enterprise, find grant opportunities
  
- Add content from UF (grants and patents)
- Edit content (update Faculty profile, add publications)
- Search by faculty names or research topics

# Sources of Information

# AA Details Data

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Scholarly Activity	Description	Time Range
Journal articles	from 33,000 journals, with digital identifiers	2004 - present
Citations	to recently published articles, from CrossRef	2004 - present
Conference Proceedings	collected directly from publishers	2008 - present
Books	British Library catalog, Baker & Taylor	2004 - present
Honorific Awards	track 5725 awards from 845 societies	1998 - present
Grants	from 12 Federal agencies, 2 foundations, plus internal and state grants	2006 - present

# Duke Collaboration Tool

**Duke UNIVERSITY**  
COLLABORATION TOOL

Search by Research Term

OR SEARCH BY

RESEARCH INITIATIVES

- BIG DATA
- GLOBAL HEALTH
- NEURODISCOVERY
- WATER QUALITY
- SUSTAINABLE ENERGY
- NANOTECHNOLOGY
- BIOMEDICAL
- SOCIAL ENTREPRENEURSHIP

About This Tool: The Duke University Collaboration Tool is an online portal intended to showcase and foster research collaboration. The tool's underlying data comprise the entire set of Duke research faculty, their grants, initiatives, and collaborations. Users may input a specific search term, or browse by university-wide research initiatives.

**Duke UNIVERSITY**  
COLLABORATION TOOL

Enter A Research Term Below

robotics

Filter Results

Duke Research Initiatives(0)

Departments(6)

- Electrical and Computer Engineering
- Biomedical Engineering
- Mechanical Engineering and Materials Science
- Computer Science
- Literature
- Environmental Sciences and Policy

### Search Results

Help

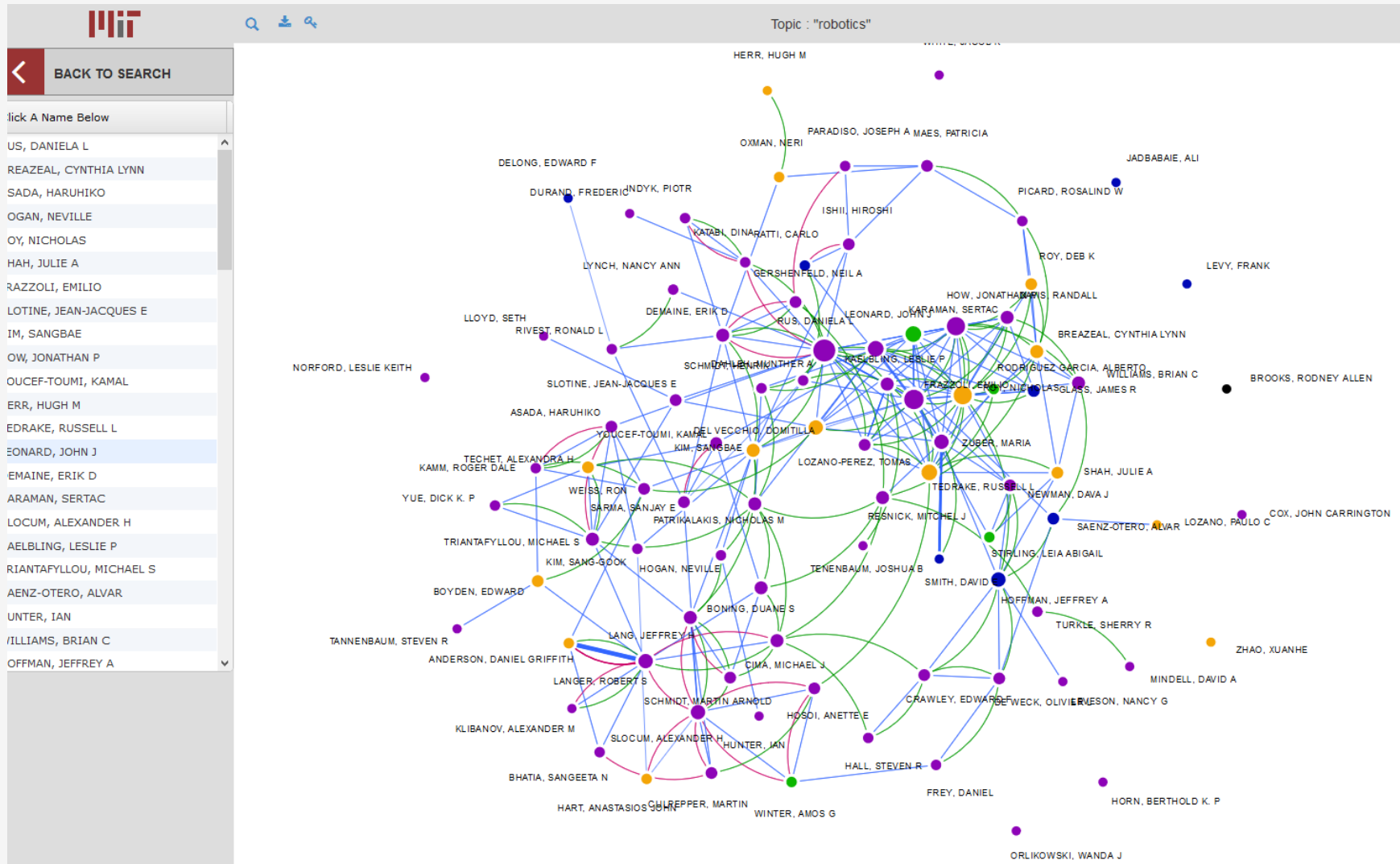
Network graph showing collaborations for 'robotics':

- Nodes: HUANG, JUN T (red), PARR, RONALD (blue), CARIN, LARRY (blue), ZHOU, PEI (green), DONALD, BRUCE (blue), SAPIRO, GUILLERMO (green), WOLF, PATRICK D (pink), ZAVLANOS, MIC (red), IAM (pink), TC (blue).
- Connections: PARR, RONALD - CARIN, LARRY; CARIN, LARRY - SAPIRO, GUILLERMO; ZHOU, PEI - DONALD, BRUCE; WOLF, PATRICK D - IAM.

### Funding Opportunities

Current Past

# MIT Faculty Research Collaboration Tool



# UF Faculty Research Expertise

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## EXTERNAL VIEW

- Public view
- Limited information
- Promote UF to external stakeholders
- Also for prospective students and faculty
- Open to anyone

## INTERNAL VIEW

- View designed for UF scholars
- More detailed information
- Add content from UF (grants and patents)
- Edit content (update Faculty profile, add publications)
- Scan funding opportunities
- Download information
- UF single sign-on

Faculty Insight

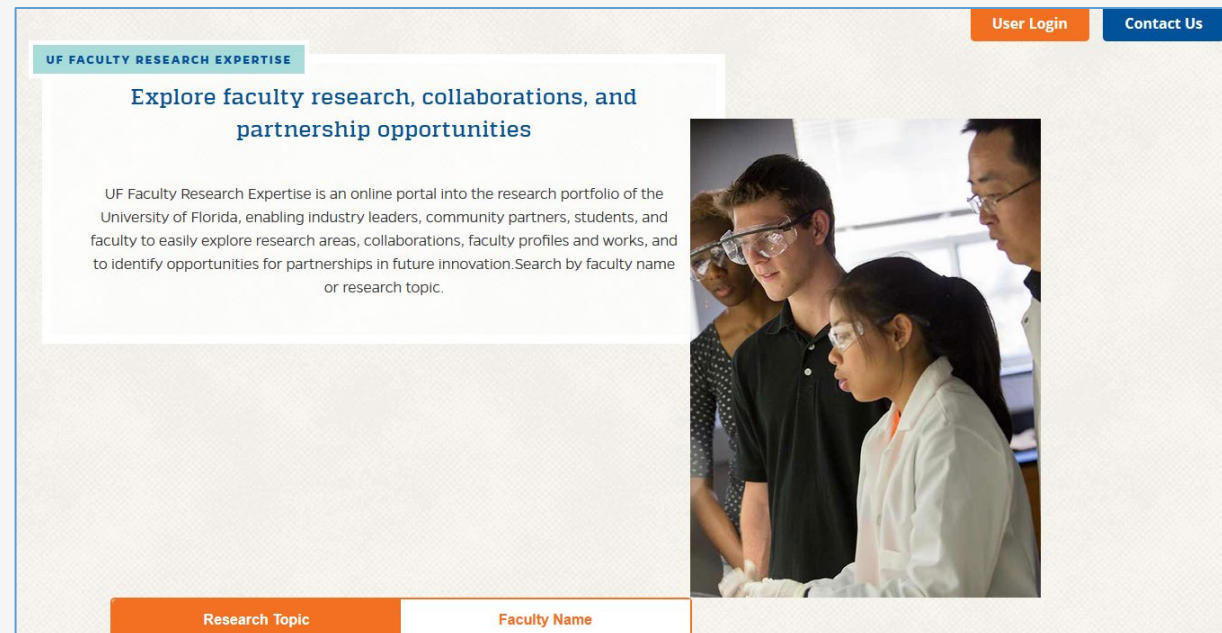
# LANDING PAGE

<https://ufl.discovery.academicanalytics.com/>

Faculty at the University of Florida are helping to solve issues that challenge our state, the nation, and global communities.

The external view helps the university promote the range of faculty expertise to prospective faculty and students, industry leaders and funding agencies.

Internet Explorer  
or Google



# UF Faculty Research Expertise

## EXTERNAL VIEW

Click here



**UF FACULTY RESEARCH EXPERTISE**

**Explore faculty research, collaborations, and partnership opportunities**

UF Faculty Research Expertise is an online portal into the research portfolio of the University of Florida, enabling industry leaders, community partners, students, and faculty to easily explore research areas, collaborations, faculty profiles and works, and to identify opportunities for partnerships in future innovation. Search by faculty name or research topic.

User Login Contact Us

Research Topic Faculty Name

<https://ufl.discovery.academicanalytics.com/>





Doug Soltis studies the origin and evolution of flowering plants, plant genome evolution and the relationships between plants. Florida Museum of Natural History photo by Kristen Grace

## **PLANT BIOLOGIST DOUG SOLTIS ELECTED TO NATIONAL ACADEMY OF SCIENCES**

MAY 3, 2017

### Related Terms

**BOTANY**  
**PLANT ANATOMY**  
**PLANT BIOCHEMISTRY**  
**PLANT GENETICS**  
**PLANT PHYSIOLOGY**  
**WEED BIOLOGY**

### Scholars

**ALICE HARMON**  
**ANDREW SCHUERGER**  
**ANNALISA PAUL**  
**DAVID CLARK**  
**DIANE ROWLAND**  
**DONALD MCCARTY**  
**DOUGLAS SOLTIS**  
**EMILY SESSA**  
**HARRY KLEE**

## DOUGLAS EDWARD SOLTIS

### PROFESSOR

Botany, Doctoral Program of  
Plant Molecular and Cellular Biology, Doctoral Program of  
Zoology, Doctoral Program of  
Biology, Department of

User Login

## RESEARCH SUMMARY

I am a Distinguished Professor in the Florida Museum of Natural History and Department of Biology at the University of Florida. My research interests in plant biology are diverse—we study plant evolution using modern DNA approaches including next generation sequencing methods and the use of “big data” sets that require challenging computational analyses; specific interests include plant phylogeny, genome doubling (polyploidy), floral evolution, angiosperm diversification, and phylogeography.

## RESEARCH INTERESTS

polyploidy

## KEY TERMS

Species

angiosperm

clade

datum

gene

population

result

project

lineage

## SIMILAR SCHOLARS

RICHARD HENNIG

ISER DELEON

CAROLE BEAL

JOSE PRINCIPE

ADRIAN ROITBERG

GRAHAM LAMB

ERIC TRIPLETT

MARK TEHRANIPOOR

DOUGLAS SPEAROT

### recent articles

2017



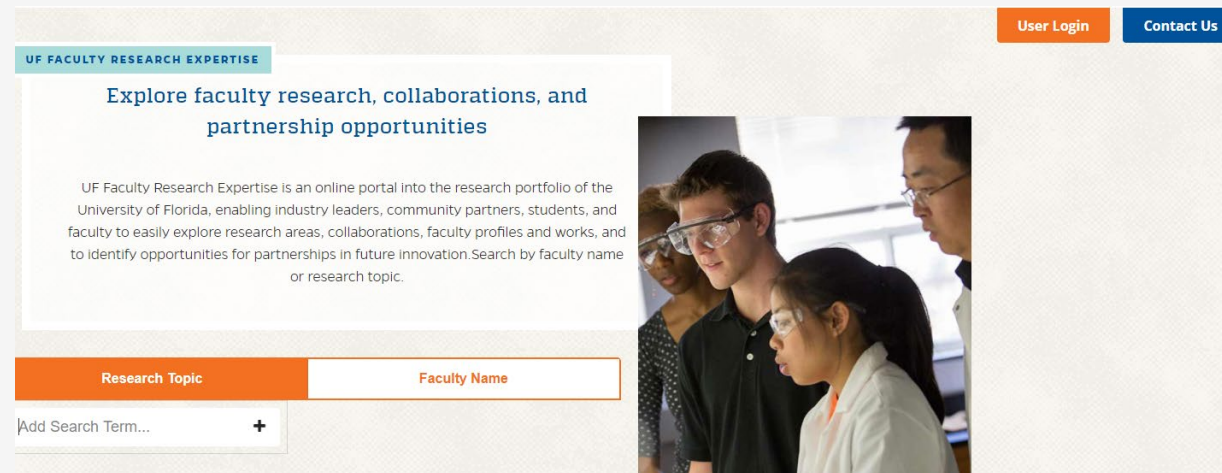
- Deep reticulation and incomplete lineage sorting obscure the diploid phylogeny of rain-lilies and allies (Amaryllidaceae tribe Hippeastreae)
- Taxonomic revision of the *Opuntia humifusa* complex (Opuntieae: Cactaceae) of the eastern United States
- Whole-genome duplication and molecular evolution in *Cornus* L. (Cornaceae) - Insights from transcriptome sequences
- Detecting Alternatively Spliced Transcript Isoforms from Single-Molecule Long-Read Sequences without a Reference Genome
- Pure polyploidy: Closing the gaps in autopolyploid research: Pure polyploidy
- Insights into the evolution of hydroxyproline rich glycoproteins from 1000 plant transcriptomes
- Evolutionary Conservation of ABA Signaling for Stomatal Closure in Ferns
- Evolution of floral diversity: genomics, genes and gamma
- Evolutionary and domestication history of *Cucurbita* (pumpkin and squash) species inferred from 44 nuclear loci
- Karyotypic variation and pollen stainability in resynthesized allopolyploids *Tragopogon miscellus* and *T. mirus*
- Insights into the historical assembly of East Asian subtropical evergreen broadleaved forests revealed by the temporal history of the tea family
- Impacts of Nitrogen and Phosphorus: From Genomes to Natural Ecosystems and Agriculture
- Diversification of Rosaceae since the Late Cretaceous based on plastid phylogenomics
- Cytogeography of *Callisia* section *Cuthbertia* (Commelinaceae)
- Adding loci improves phylogeographic resolution in red mangroves despite increased missing data: comparing



# UF Faculty Research Expertise

## INTERNAL VIEW

Sign in with UF user name and password, on main landing page



<https://ufl.discovery.academicanalytics.com/>

# Internal View – search on faculty name


More details, including link to current publications

## Faculty Insight



**Search By:** Scholar Name

**Scholar Name:** [Clear](#)

soltis ✕

 Search

Scholars Funding Networks Recent Activity

 Filter  Download

Unit	Name
Biol.	SOLTIS, DOUGLAS EDWARD Biology, Department of
Bota.	SOLTIS, PAMELA S Botany

## **SOLTIS, DOUGLAS EDWARD**

Biology, Department of  
Botany, Doctoral Program of  
Plant Molecular and Cellular Biology, Doctoral Program of  
Zoology, Doctoral Program of

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### Date

- 2018  
Article  
[Scholars \(2\)](#) <  
Source: [AA](#)

 **Linking genome signatures of selection and adaptation in non-model plants: exploring potential an**  
**crossref**
- 2018  
Article  
[Scholars \(1\)](#) <  
Source: [AA](#)

 **Character evolution and missing (morphological) data across Asteridae**  
**crossref**
- 2018  
Article  
[Scholars \(1\)](#) <  
Source: [AA](#)

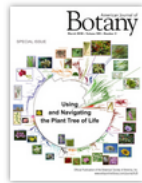
 **Challenges of comprehensive taxon sampling in comparative biology: Wrestling with rosids**  
**crossref**

# Link to published articles, conference proceedings

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Volume 105, Issue 3  
Special Issue: Using and Navigating the Plant Tree of Life  
March 2018  
Pages 470-479  
This article also appears in:  
Tree of Life Virtual Issue  
Using and Navigating the Plant Tree of Life

Research Article | Free Access

## Character evolution and missing (morphological) data across *Asteridae*

Gregory W. Stull, Melanie Schori, Douglas E. Soltis, Pamela S. Soltis

First published: 14 April 2018 | <https://doi.org/10.1002/ajb2.1050> | Cited by: 1

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### Abstract

#### Premise of the Study

Our current understanding of flowering plant phylogeny provides an excellent framework for exploring various aspects of character evolution through comparative analyses. However, attempts to synthesize this phylogenetic framework with extensive morphological data sets have been surprisingly rare. Here, we explore character evolution in *Asteridae* (asterids), a major angiosperm clade, using an extensive morphological data set and a well-resolved phylogeny.

Figures References Related Information



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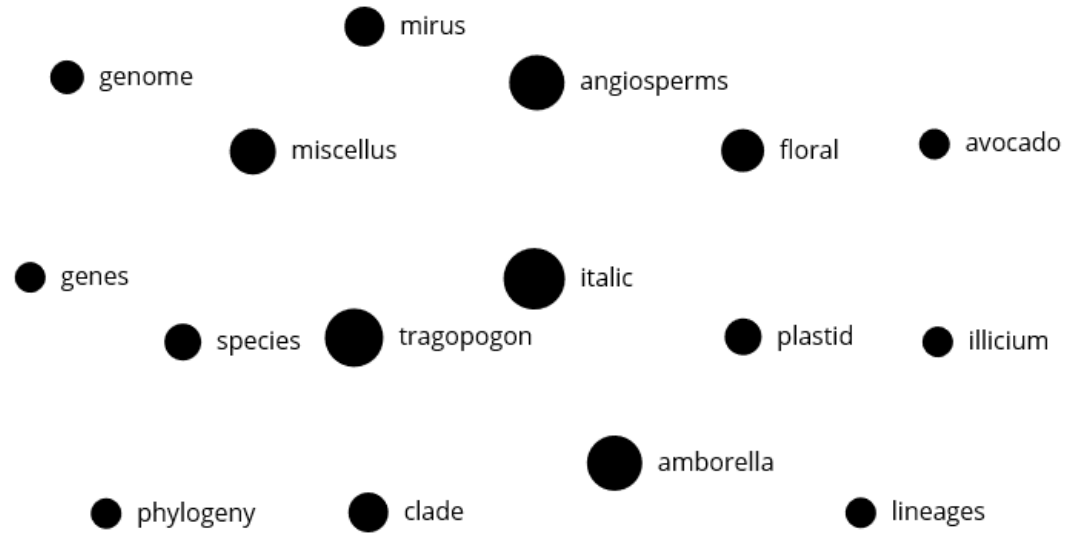
### 2018

- Evolutionary history of the angiosperm flora of China
- New prospects in the detection and comparative analysis of hybridization in the tree of life
- 10KP: A Phylodiverse Genome Sequencing Plan
- Pseudo-parallel patterns of disjunctions in an Arctic-alpine plant lineage
- Factors promoting polyploid persistence and diversification and limiting diploid speciation during the K-Pg interlude
- Plastid phylogenomic analysis of green plants: A billion years of evolutionary history
- Using and navigating the plant tree of life
- Chloroplast genome analyses and genomic resource development for epilithic sister genera *Oresitrophe* and *Mukdenia* (Saxifragaceae)
- Integrative identification of incipient lineages in *Heuchera longiflora* (Saxifragaceae)
- Challenges of comprehensive taxon sampling in comparative biology: Wrestling with rosids
- Character evolution and missing (morphological) data across Asteridae
- Linking genome signatures of selection and adaptation in non-model plants: exploring potential and limitations in the angiosperm *A*

# Related Terms and People

- Research Profile
- Works
- Timeline
- Related Terms and Similar Scholars**
- Suggested Funding
- Collaborations

Download



## Similar Scholars

**SOLTIS, PAMELA S**  
Botany

**MCCARTY, DONALD R**  
Horticultural Sciences, Department of

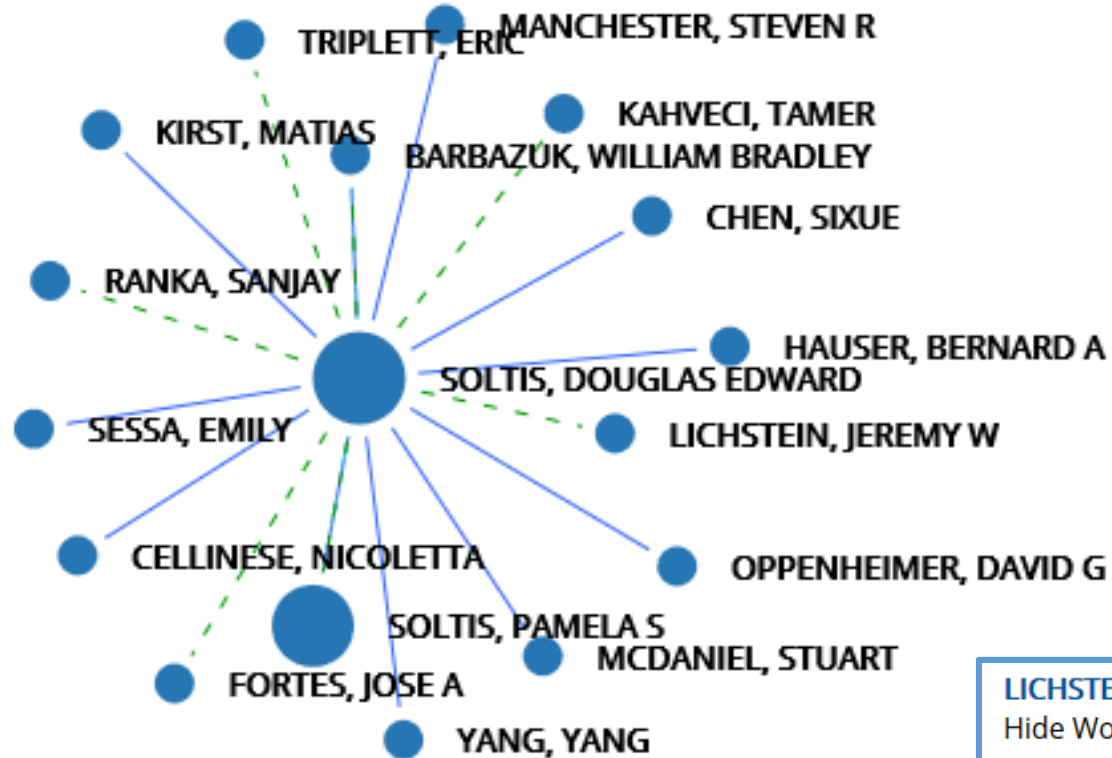
**TIEMAN, DENISE M**  
Horticultural Sciences, Department of

**TOTH, ZSOLT**  
Oral Biology, Department of

**CLARK, DAVID G**  
Environmental Horticulture, Department of

**MCDANIEL, STUART**  
Biology, Department of

# Collaborations



- Faculty
- More Collaborations
- Less Collaborations
- Article
- Book
- Conference Proceeding
- Grant
- Patent

**LICHSTEIN, JEREMY W** has collaborated on **1 grant**.  
Hide Works

2015 Grant [Scholars \(3\)](#) **Dimensions US-China: Collaborative Research: How historical constraints, local adaptation, and species interactions shape biodiversity across an ancient floristic disjunction**  
+ Biodiversity is multidimensional, composed of genetic, ph...

# Suggested Funding

## SOLTIS, DOUGLAS EDWARD

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Title/Sponsor ↕	Last Deadline ↕	Amount ↕
2018 ERDC Broad Agency Announcement - Nonindigenous Aquatic Nuisance Species Management - Aquatic Nuisance Species (EL-33) ERDC	1/31/19	\$110k
Frank S. Flowers Charitable Trust Grant None	3/15/19	\$125k
Comparative Genomics Research Program (R01-Clinical Trial Not Allowed) NHGRI, NIH	11/5/20	\$2m

- Monthly updates to scholarly content
- Updated faculty to fall 2017 list (October 2018)
- Add research summary, research interests for faculty
  
- Have questions? please contact Institutional Planning and Research

developed by UF Office of the Provost

application and content provided by Academic Analytics, LLC

additional content provided by UF Office of the Provost, Institutional Planning and Research,  
and by UF Office of Research, Division of Sponsored Programs

