

Welcome to UF Faculty Research Expertise

Helping faculty find research partners
and new ways to collaborate.

Academic Analytics, Discovery Suite

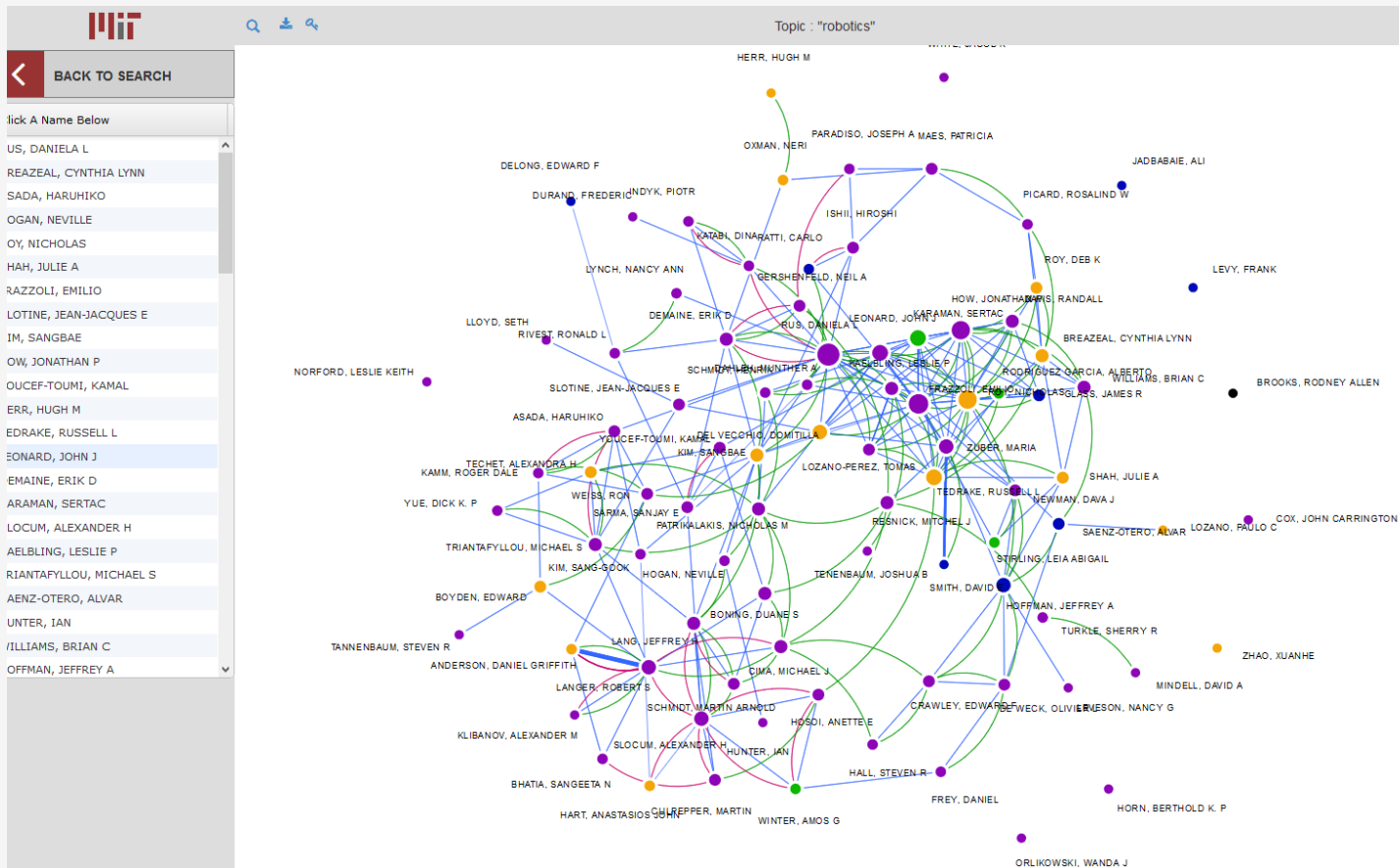
Sept 2018

Goals

- 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

MIT Faculty Research Collaboration Tool



UF Faculty Research Expertise

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

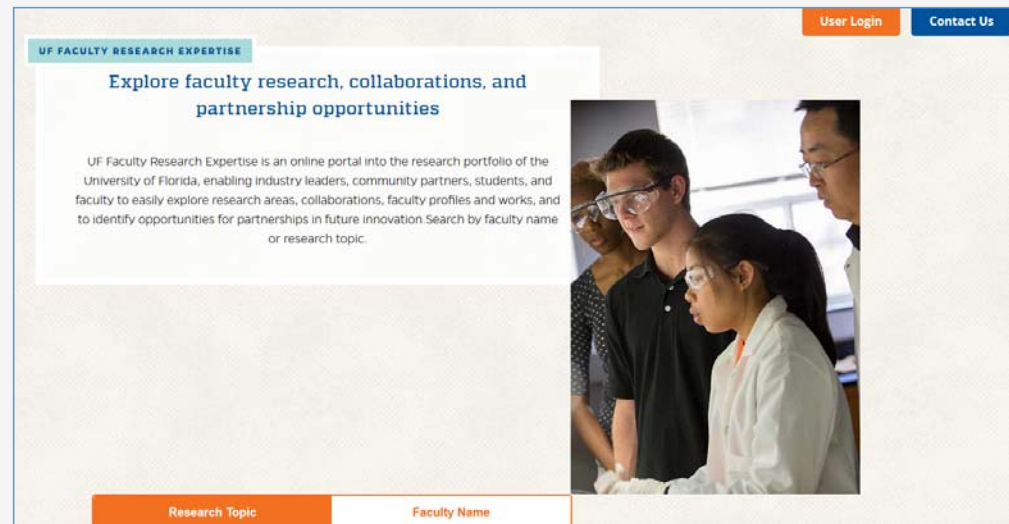
LANDING PAGE

<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.

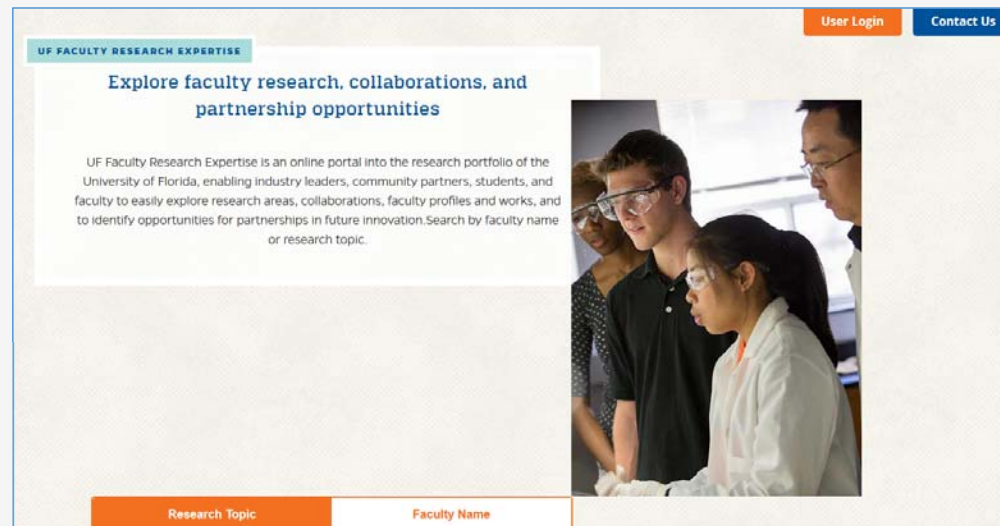
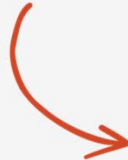
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UF Faculty Research Expertise

EXTERNAL VIEW

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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

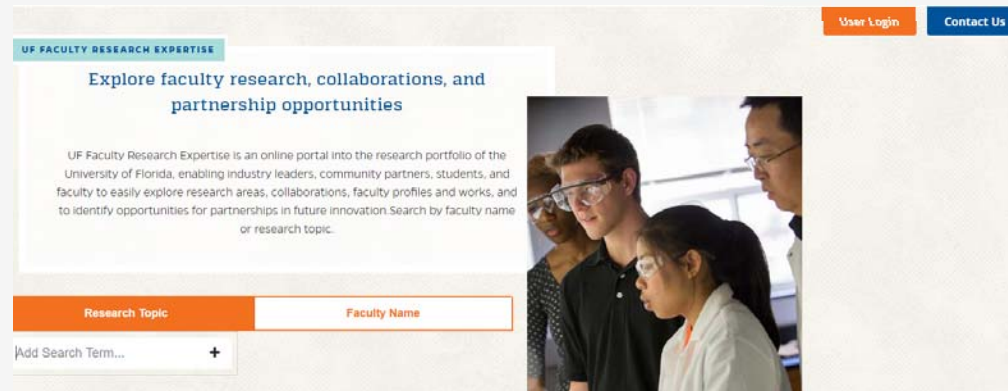


- Deep reticulation and incomplete lineage sorting obscure the diploid phylogeny of rain-lilies and allies (Amaryllidaceae tribe Hippeastreae)
- Taxonomic revision of the *Opuntia humifusa* complex (Opuntieae: Cactaceae) of the eastern United States
- Whole-genome duplication and molecular evolution 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

Faculty Insight

More details, including link to current publications

Faculty Insight

Search By:

Scholar Name



Scholar Name:

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SOLTIS, DOUGLAS EDWARD
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Bota.

SOLTIS, PAMELA S
Botany

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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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Botany
American Journal of Botany

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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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

Figures | References | Related | Information



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2018

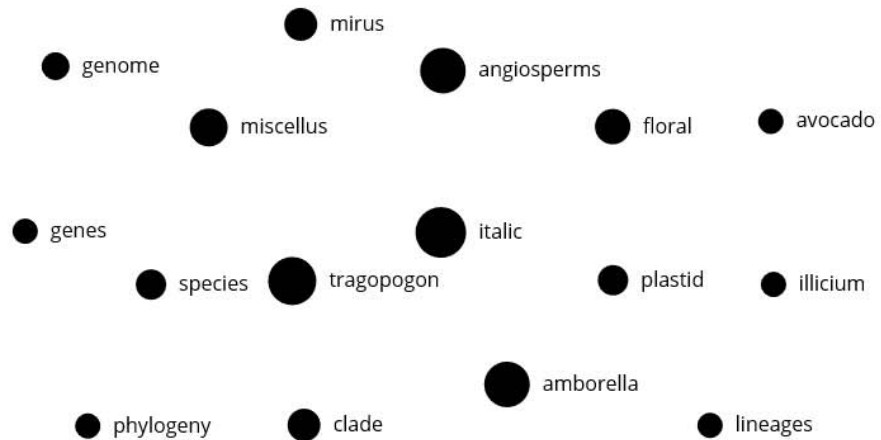
- Evolutionary history of the angiosperm flora of China
- New prospects in the detection and comparative analysis of hybridization in the tree of life
- 10KP: A Phylodiverse Genome Sequencing Plan
- Pseudo-parallel patterns of disjunctions in an Arctic-alpine plant lineage
- Factors promoting polyploid 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

Faculty Insight

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

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Similar Scholars

SOLTIS, PAMELA S
Botany

MCCARTY, DONALD R
Horticultural Sciences, Department of

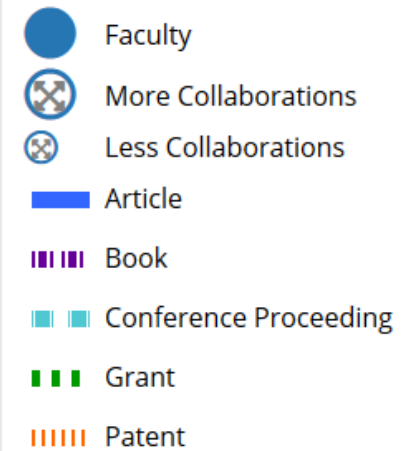
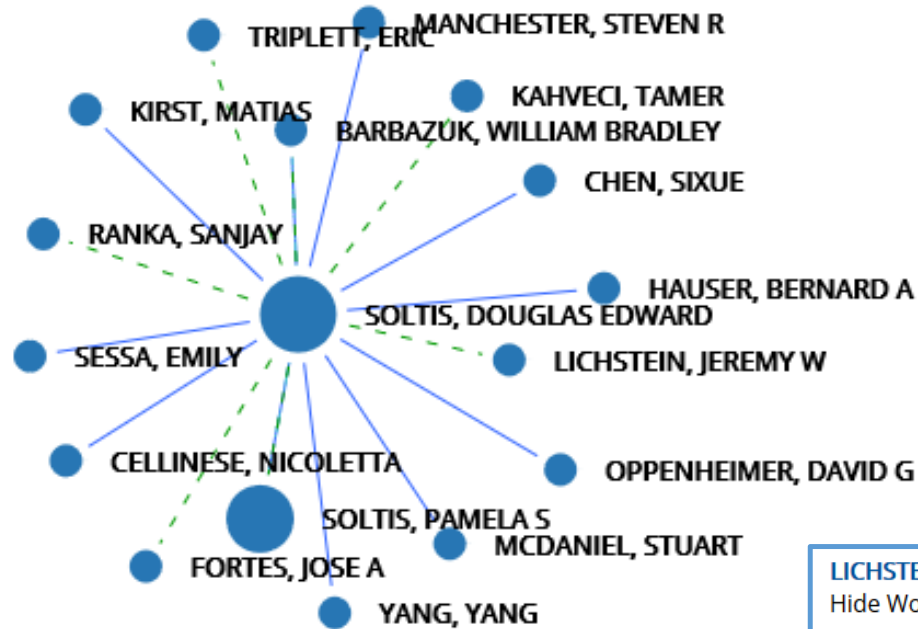
TIEMAN, DENISE M
Horticultural Sciences, Department of

TOTH, ZSOLT
Oral Biology, Department of

CLARK, DAVID G
Environmental Horticulture, Department of

MCDANIEL, STUART
Biology, Department of

Collaborations



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

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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

Next Steps

fall 2018

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

Contributors

UF Faculty Research Expertise

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

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