Welcome to UF Faculty Research Expertise

Helping faculty find research partners and new ways to collaborate.

Academic Analytics, Discovery Suite



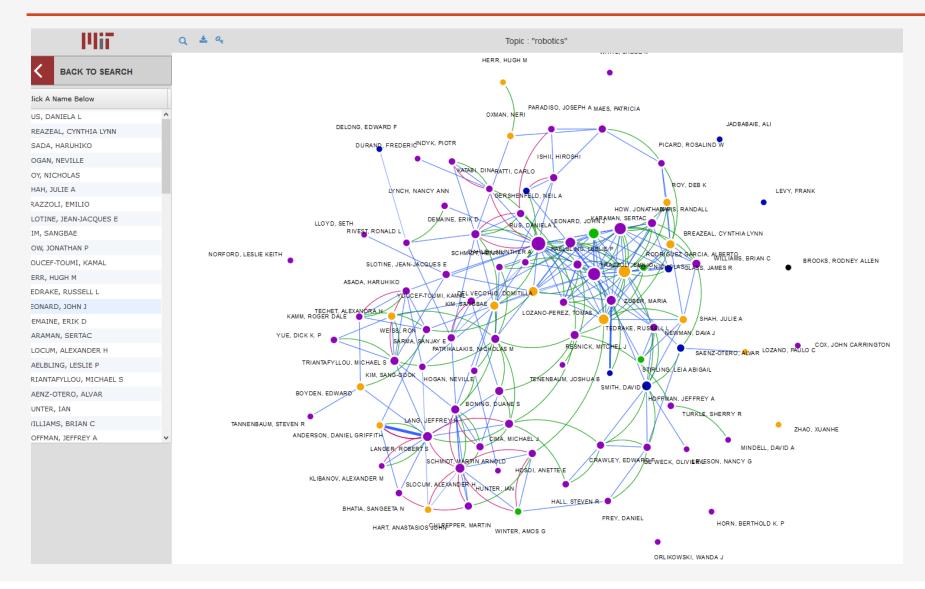
- Promote faculty expertise to external stakeholders
- Encourage research collaboration, new discoveries
- Expand the research enterprise, find grant opportunities

- Add content from UF (grants and patents)
- Edit content (update Faculty profile, add publications)
- Search by faculty names or research topics

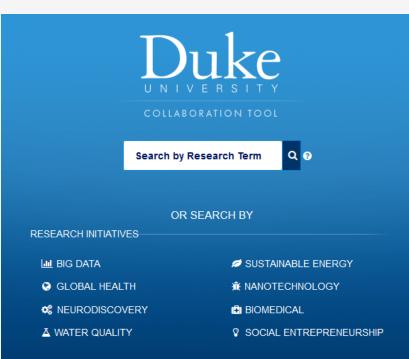
Agenda

- Preliminary models at other universities
- University of Florida model external and internal views
- Sources of information
- Next steps

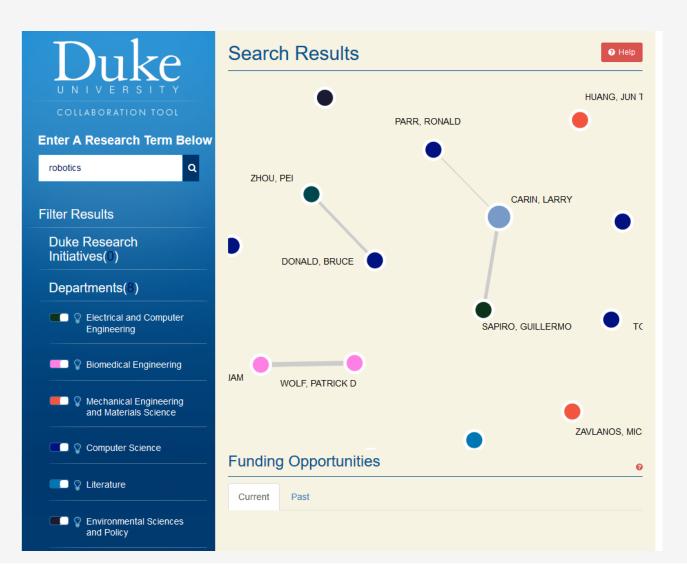
MIT Faculty Research Collaboration Tool



Duke Collaboration Tool



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 universitywide research initiatives.



LANDING PAGE

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.

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.



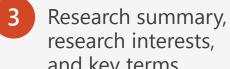
Search by Faculty Name

EXTERNAL VIEW

Faculty Profile



- Affiliations with academic departments and doctoral programs
- Recent publications, grants, 2 and honors



research interests, and key terms



Shows similar scholars and network of faculty collaborations

SMITH, SUZANNA D Family Youth and Community Sciences, Department of

SMITH, CRAIG Art and Art History, School of

SMITH, BRENDA JO Music, School of

SELECT ME

SMITH, BENJAMIN B Political Science, Department of

SMITH, WESLEY CLAY Neuroscience, Department of

SMITH, BARBARA K Physical Therapy, Department of

SMITH, HUGH A Entomology and Nematology, Department of

SMITH, STEVEN M Community Health and Family Medicine, Department of

SMITH, STEPHANIE ANN English, Department of

SMITH, SONDRA LORI Human Development and Organizational Studies in Education - Counselor Education

SMITH, KATHRYN JEAN Pharmacotherapy and Translational Research, Department of

Faculty Name search

EXTERNAL VIEW



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

SOLTIS, DOUGLAS EDWARD Biology, Department of

DOUGLAS, ELLIOT PAUL Sustainable Infrastructure and Environment, Engineering School of

DOUGLAS, J YELLOWLEES English, Department of

ARCHER, DOUGLAS L Food Science and Human Nutrition, Department of

CARTER, DOUGLAS R Forest Resources and Conservation, School of

CENZER, DOUGLAS A Mathematics, Department of

MCFADDEN, DOUGLAS GRANT Molecular Genetics and Microbiology, Department of

WALDO, DOUGLAS G Economics, Department of

SPEAROT, DOUGLAS Mechanical and Aerospace Engineering, Department of

DUNCAN, STEWART DOUGLAS RHODERICK Philosophy, Department of

PRESNELL, BRETT DOUGLAS Statistics, Department of (LS)

Faculty Name search

DOUGLAS EDWARD SOLTIS

PROFESSOR

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

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



SIMILAR SCHOLARS

RICHARD HENNIG	ISER DELEON	CAROLE BEAL
JOSE PRINCIPE	ADRIAN ROITBERG	GRAHAM LAMB
ERIC TRIPLETT	MARK TEHRANIPOOR	DOUGLAS SPEAROT

EXTERNAL VIEW

Recent Publications

listed by year and title

2017	Deep reticulation and incomplete lineage sorting obscure the diploid phylogeny of rain-lilies and allies
$\mathbf{\nabla}$	(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 tempora
	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

Grants and Patents

federal grants, from AA state, corporate, institutional grants, from UF

2014 DISSERTATION RESEARCH: An integrative genomic study of multiple domestication events in squash and pumpkin (Cucurbita, Cucurbitaceae), National Science Foundation • Plant exploration to collect wild cucurbita Germplasm, US DEPT OF AG AG RES SVC • Collaborative Research: ABI Innovation: Connecting resources to enable large-scale biodiversity analyses, National 2015 Science Foundation Dimensions US-China: Collaborative Research: How historical constraints, local adaptation, and species interactions shape biodiversity across an ancient floristic disjunction, National Science Foundation DISSERTATION RESEARCH: Comparative phylogeography of three co-distributed Neotropical mangrove species, National Science Foundation • Dissertation Research: The evolutionary significance of autopolyploidy in Tolmiea (Saxifragaceae), National Science Foundation Evolution of Specialized Metabolite Biosynthetic Pathways in the Lamiaceae: Sources of Chemical Diversity for Molecules Essential for Human Use and Plant Defense. National Science Foundation DISSERTATION RESEARCH: Evolutionary impact of genome duplication on alternative splicing: Genome-wide 2017 assessment in a polyploid plant (Tragopogon), National Science Foundation

EXTERNAL VIEW

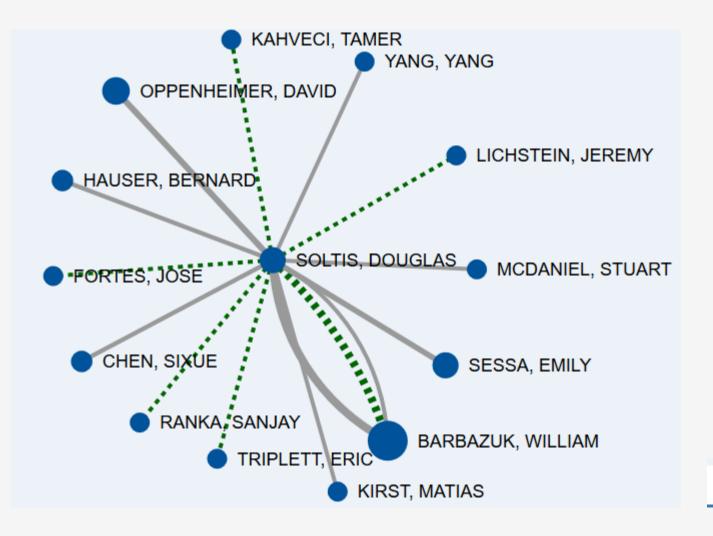
Awards and Honors

professional awards and honors listed by title with name of organization



Collaboration

EXTERNAL VIEW



Search by Research Topic

e.g. Robotics



2

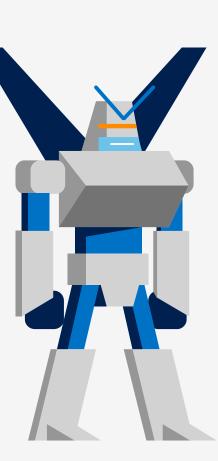
4

Refine search using related terms

See list of related scholars

3 Link to faculty profile

See collaboration networks



Related terms

AUTOMATIC CONTROL

COMPUTER AIDED MANUFACTURING COMPUTER AIDED MAPPING COMPUTER VISION

INVERSE KINEMATICS

MAN MACHINE SYSTEMS

MANIPULATORS

REMOTE OPERATIONS (ROBOTICS)

ROBOT DYNAMICS

ROBOTS

ROBOT ARMS

TASK PLANNING (ROBOTICS)

TELEOPERATORS

TELEROBOTICS

TRAJECTORY PLANNING

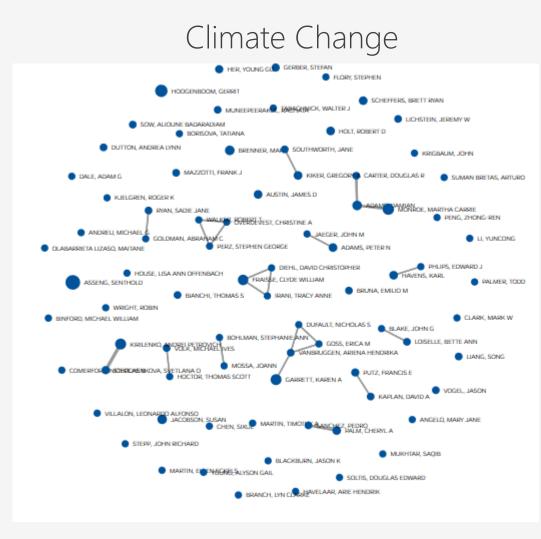
UNMANNED GROUND VEHICLES

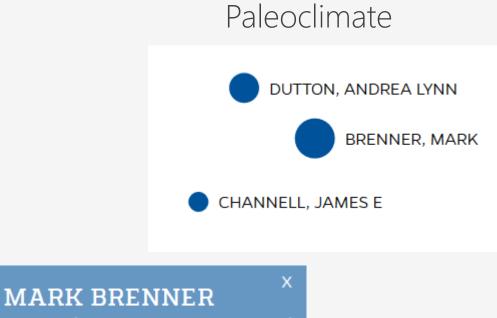
EXTERNAL VIEW

Related scholars CARL CRANE DANIEL HOH DAVID ARNOLD DAVID HAHN KAMRAN MOHSENI MARKUS SCHNEIDER MATTIA PROSPERI NORMAN FITZ-COY **RICCARDO BEVILACQUA** ROGER TRAN SON TAY SCOTT BANKS YULI RUDYAK

Search by Research Topic

EXTERNAL VIEW





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Associate Professor, Geological Sciences, Department of

RECENT WORKS

Holocene environmental history of tropical, midaltitude Lake Ocotalito, México, inferred from ostracodes and non-biological indicators Read Full Text

View Full Profile

Contact Us

Internal View

Only visible to UF faculty.

View more information about publications, grants, and awards. Explore existing networks of collaborators. Scan funding opportunities. Download results.

UF FACULTY RESEARCH EXPERTISE

Explore faculty research, collaborations, and partnership opportunities

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SELECT ME

Internal View



More details, including link to current publications



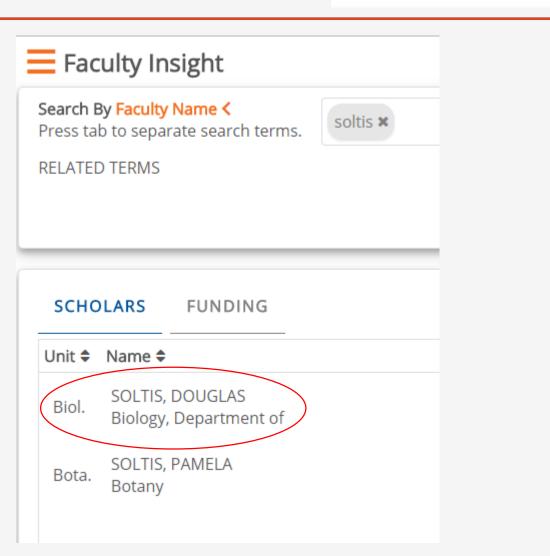
Works versus Timeline

- 2 Collaborations
 - Suggested Funding



3

Recent Activity, Related Activity



Works



SOLTIS, DOUGLAS Biology, Department of Botany, Doctoral Program of Plant Molecular and Cellular Biology, Doctoral Program of Zoology, Doctoral Program of TIMELINE RESEARCH PROFILE WORKS RELATED TERMS AND PEOPLE SUGGESTED FUNDING Date Search within results crossref Scholars (2) < Source: AA 2017 🖹 Insights into the historical assembly of East Asian subtropical evergreen broadleaved forests revealed by the temporal history of the tea New Phytologist [0028646X], Vol 215, Issue 3 Article crossref Scholars (1) < Source: AA Pure polyploidy: Closing the gaps in autopolyploid research: Pure polyploidy 2017 Journal of Systematics and Evolution [16744918] Article crossref Scholars (1) < Source: AA 2017 Evolution of floral diversity: genomics, genes and gamma Article Philosophical Transactions of the Royal Society B: Biological Sciences [09628436], Vol 372, Issue 1713 Scholars (1) < crossref Source: AA 2017 lnsights into the evolution of hydroxyproline rich glycoproteins from 1000 plant transcriptomes Plant Physiology [00320889] Article crossref Source: AA E Detecting Alternatively Spliced Transcript Isoforms from Single-Molecule Long-Read Sequences without a Reference Genome 2017 Molecular Ecology Resources [1755098X] Article crossref Scholare (2) &

Link to published articles, conference proceedings



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Article	Figures & Da	ata Inf	o & Metrics		PDF		
© 2017 Am	nerican Society of	Plant Biologist	s. All Rights Re	eserved.			icle with <i>LENS</i>
given the v	·	ased products	to our current a	nave been the focus o and future economies.		In this issue	ant Physiology

Timeline



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

RESEARCH PROFILE

WORKS

TIMELINE

RELATED TERMS AND PEOPLE

2017

🖹 Deep reticulation and incomplete lineage sorting obscure the diploid phylogeny of rain-lilies and allies (Amaryllidaceae tribe Hippeast

Taxonomic revision of the Opuntia humifusa complex (Opuntieae: Cactaceae) of the eastern United States

B Whole-genome duplication and molecular evolution in Cornus L. (Cornaceae) – Insights from transcriptome sequences

E 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

lnsights 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

E 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 t

E 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 microsatellites and RA

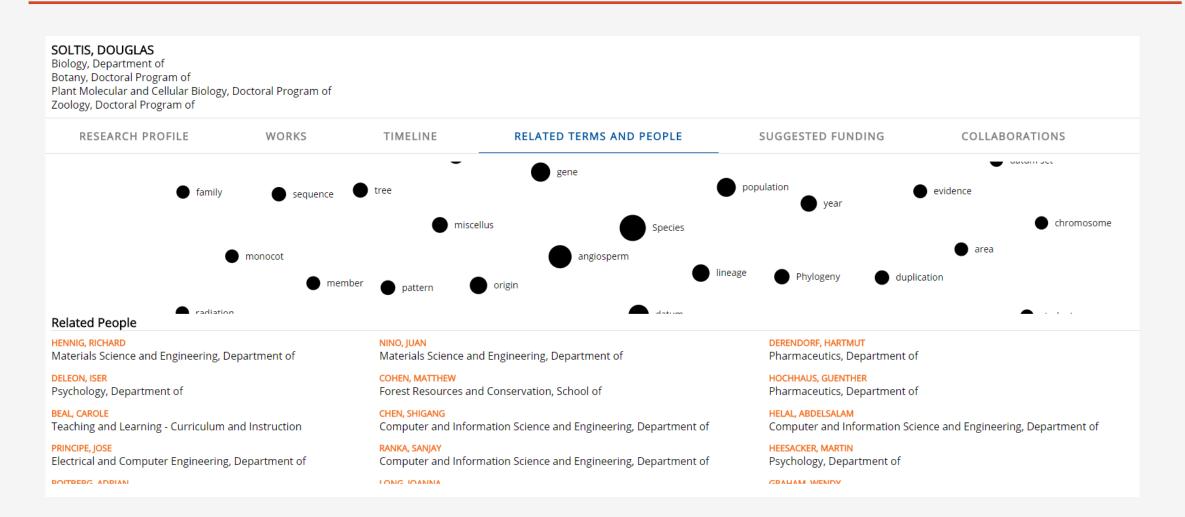
🟆 Members/Foreign Associates

Phylogeny and Evolution of the Angiosperms

DISSERTATION RESEARCH: Evolutionary impact of genome duplication on alternative splicing: Genome-wide assessment in a polyplo

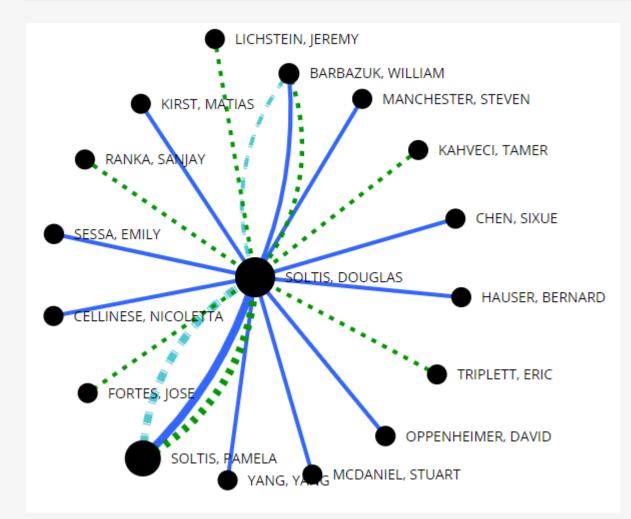
Related Terms and People

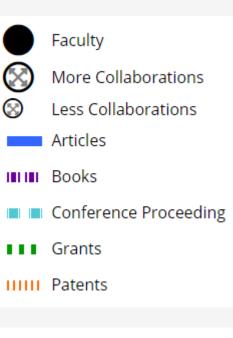




Collaborations







LICHSTEIN, JEREMY has collaborated on 1 grant.

Hide Works

2015	🚥 Dimensions US-China: Collaborative Re
Grant	species interactions shape biodiversity
Scholars	Granting agency: National Science Foundation
(3) <	Awarded amount: \$1.1990429999999999m
	Biodiversity is multidimensional, con

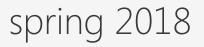
Suggested Funding



SOLTIS, DOUGLAS Biology, Department of Botany, Doctoral Program of Plant Molecular and Cellular Biology, Doctoral Program of Zoology, Doctoral Program of			
RESEARCH PROFILE WORKS TIMELINE RELATED TERMS AND PEOPLE SUGGESTED FU	INDING CC	LLABORATIO	NS
Title/Sponsor 🗢	Last Deadline 🖨	Amount 🖨 ನ	ን
Ecology and Evolution of Infectious Diseases (EEID) BIO, SBE, FIC, NIFA, NIGMS, NSF, BSF, NIH, NIAID, BBSRC	11/21/18	\$13.5m	☆
Ecology and Evolution of Infectious Diseases (EEID) BIO, SBE, FIC, NIFA, NIGMS, NSF, BSF, NIH, NIAID, BBSRC	11/21/18	\$13.5m	☆
Limited Competition: Additional Sequencing for the Alzheimer's Disease Sequencing Project (U01) NIA, NIH	7/5/19	\$1m	☆
Computational Radiation Dosimetry in Medicine NIST, NRC Research Associateship Programs RAP	8/1/18	\$2.5m	☆
Computational Radiation Dosimetry in Medicine NIST, NRC Research Associateship Programs RAP	8/1/18	\$2.5m	☆
Etiology of the Acute Radiation Syndrome across Multiple Animal Species and Biological Moderators of Radiation Sensitivity NRC Research Associateship Programs RAP, None	11/1/18	\$2.5m	☆
Etiology of the Acute Radiation Syndrome across Multiple Animal Species and Biological Moderators of Radiation Sensitivity NRC Research Associateship Programs RAP, None	11/1/18	\$2.5m	☆

Sources of Information

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



Demos for deans, research deans, provost office, faculty senate

Open access for select departments, authorized users

Add research summary, research interests for faculty

Open edit feature for faculty profiles, key terms

Monthly updates to scholarly content

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