

ACADEMIC ANALYTICS

Research Insight User Guide

FEBRUARY 2019



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Available to clients subscribing at the Master License Agreement level	3
New Data Elements	4
Patents	4
Clinical Trials	4
Book Chapters	4
The Search Interface	5
Search by Keyword	5
Search Results: Search by Faculty Name	7
Search Results: Search by Keyword	7
Filters	8
Results	9
Scholars	9
Faculty Profile	11
Works	11
Timeline	12
Related Terms and People	12
Collaborations	12
Suggested Funding	13
Suggested Honorific Awards	13
Funding	19
Amount	19
Summary	19
Instructions	20
Related Funding	21
Suggested Scholars	21
Networks	22
Recent Activity	23
Project	23
Build a Team	23
Team Analysis	24
Discipline Career Progression	24
Aggregate Research Activity	25
Intra-Team Collaboration	26
Expertise Intersection	27
Funding Opportunities	27
Menu	28
Saved Projects	28
Saved Scholars	28
Saved Funding	29

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The February 2019 update adds three new content types to Research Insight: Patents, Clinical Trials, and Book Chapters. In addition, a significant update to the user interface has been made which includes new formats for the display of scholarly works and the inclusion of new content in collaborative network graphs.

Background

Research Insight is a search engine that indexes the titles and abstracts of articles, conference proceedings, books, federal grants, United States patents, clinical trials, and book chapters stored in the Academic Analytics data warehouse to provide a targeted result set for searches on keywords and faculty names. Research Insight is a separate tool on the Academic Analytics portal. Coverage is national, not limited to a single institution, department or program, and is not restricted to comparative time windows. Data coverage is as follows:

Articles:	2004 – present
Citations:	2004 – present
Conference Proceedings:	2004 – present
Books:	2003 – present
Grants:	2006 – present
Awards:	varies by award
Patents:	1990 – present
Clinical Trials:	2000 – present
Book Chapters:	2003 – present

New Data Elements

Patents, Clinical Trials, and Book Chapters are new data elements captured by Academic Analytics and as such, contain new metadata fields. These new metadata fields are described below.

Patents

Patent data includes the patent title, USPTO patent number, and the number of other US Patents that have cited the patent. While not displayed, the abstract is also indexed by our search algorithms along with the title. Inventors that collaborated on a patent are shown in the scholars section, where available. Clicking the patent number will open a new browser tab of the USPTO page for that patent.

Clinical Trials

Clinical Trials data includes the NCT ID (ClinicalTrials.gov identifier), the sponsor organization, which has authority and control over the study, the study type (Interventional, Observational, or Expanded Access), the allocation of participants (Randomized or Nonrandomized), the phase of the study, and the recruitment status. A variety of other metadata, including the summary, description, condition MeSH terms, intervention MeSH terms, and keywords associated with the trial are indexed by our search algorithms along with the title. Investigators that collaborated on a Trial are shown in the scholars section, where available. Clicking the NCT ID will open a new browser tab of the ClinicalTrials.gov page for that trial.

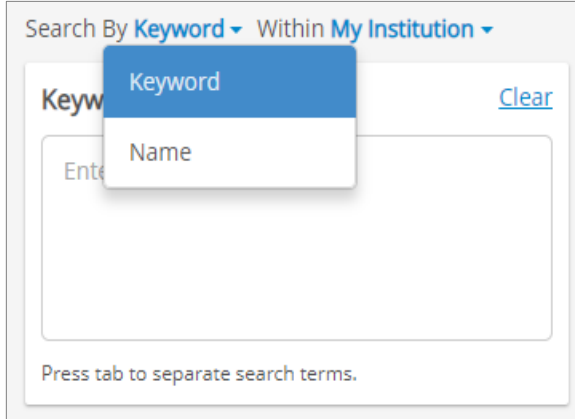
Book Chapters

Book Chapter data includes the chapter title, book title, and ISBN13. Book chapter collaborators are shown in the scholars section.

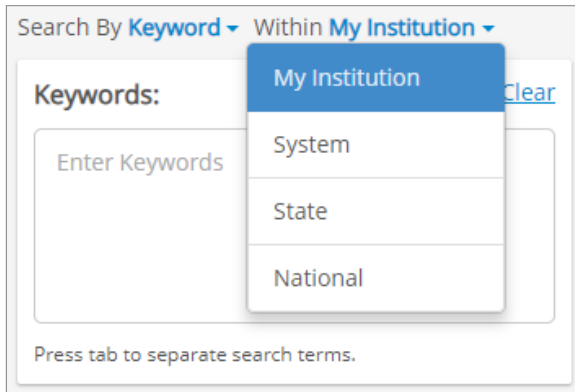
The Search Interface

Search by Keyword

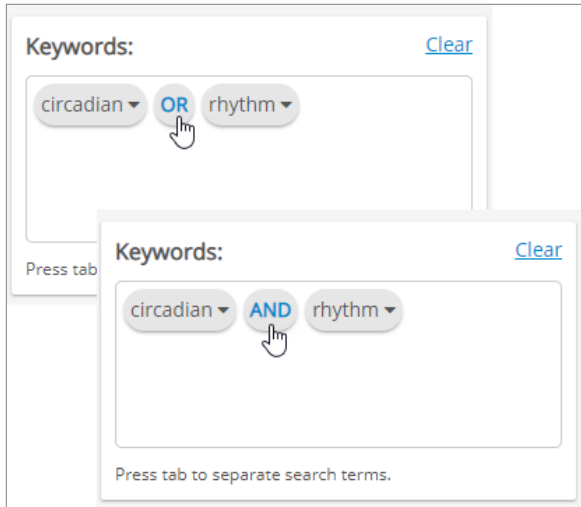
The user begins by selecting a search by keyword or faculty name. Keyword search is the default setting.



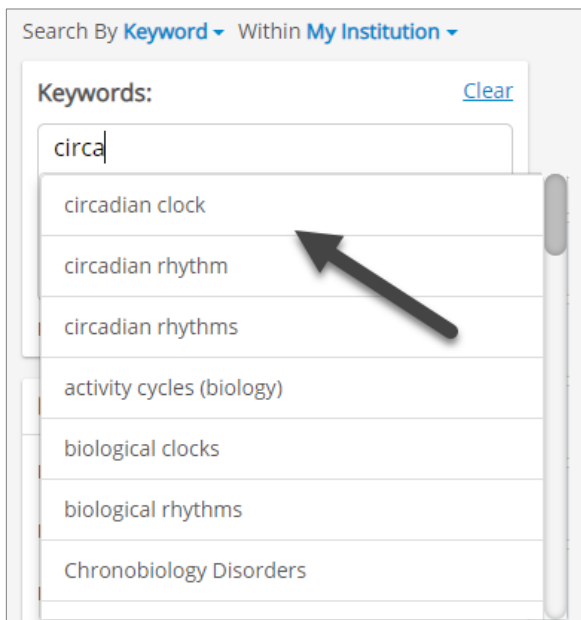
The search can be conducted across the entire country, across the user's state, across the user's university system (if applicable) or at the user's institution.



Next, the user enters a keyword into the search area. Pressing the tab button between keywords will add a Boolean "OR" operator. Clicking the operator bubble will switch the operator type from "or" to "and" or vice versa.



Suggested terms will appear as text is entered. Clicking a suggested term will add it to the search bar. Suggested terms are derived from several publicly available ontologies, including those published by the U.S. National Library of Medicine, the U.S. Department of Agriculture and the National Aeronautics and Space Administration.



Search Results: Search by Faculty Name

A search by faculty name will return all faculty with a name similar to the name which was queried. For this type of search, Related Terms will not populate, the Activity Related to Your Search section will not be visible, and the Relevance (blue) links in the results table will show "0".

Search By **Name** ▾ Within **National** ▾

Faculty Name: [Clear](#)

Press tab to separate search terms.

SCHOLARS FUNDING NETWORKS RECENT ACTIVITY

Filter by Discipline Download Expand Search within results

Institution	Name	Collabs	Articles	Awards	Books	Citations	RC-Index	Grant #	Grant \$	Deg. Yr.
NYU	SMITH, KEITH Marketing Group (CoBA)	0	3	2	1	0	8	0	\$0.0	0
UOP	SMITH, KEITH Law, McGeorge School of	0	0	0	5	0	5	0	\$0.0	0
UMC	VISHVESHWARA, SMITHA Physics	0	0	46	47	3	0	891	\$3.5m	2002
UMD	PILLAI, SMITHA Medicine	0	0	13	3	0	0	82	\$0.0	0
MCW	MENON, SMITHA Medicine	0	0	14	4	0	0	73	\$0.0	0
SBU	SMITHY, WILLIAM Surgery	0	0	1	2	0	0	0	\$0.0	0
UoT	BULLOCK, SMITHA	0	0	0	0	0	0	0	\$0.0	2005

Search Results: Search by Keyword

Search By **Keyword** ▾ Within **My Institution** ▾

Keywords: [Clear](#)

Press tab to separate search terms.

Refine Your Search

LIMIT TO ALUMNI: No

FACULTY RANK: All

DEGREE YEAR: Any to Any

DISCIPLINES: All

WORKS: Any to Any

Related Terms

Project

SCHOLARS FUNDING NETWORKS RECENT ACTIVITY

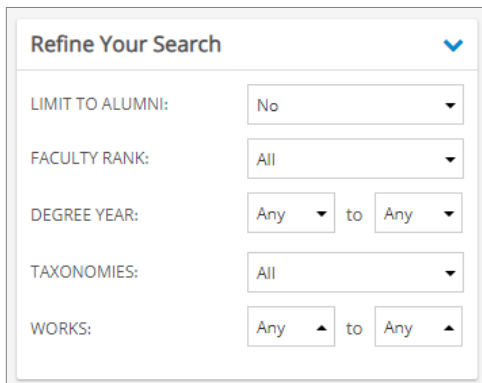
Filter by Discipline Download Expand Search within results

Institution	Name	Collabs	Articles	Awards	Books	Citations	RC-Index	Grant #	Grant \$	Deg. Yr.
MIT	TARRANT, ANN Biology (WHOI)	1	9	83	49	0	0	874	\$2.8m	2002
MIT	ALON, SHAHAR Media Arts and Sciences, Program in	1	8	13	24	0	0	637	\$0.0	2015
MIT	GUARENTE, LEONARD PERSHING Biology	0	5	323	137	3	3	18k	\$11.8m	1978
MIT	CHEN, XIAO Learning & Memory, Picower Institute for	0	5	9	7	0	0	58	\$0.0	2017
MIT	BROWN, EMERY NEAL Brain and Cognitive Sciences	1	4	755	204	11	1	7k	\$28.7m	1988
MIT	JACKS, TYLER E Biology	1	2	845	186	9	1	23k	\$93.8m	1988
MIT	VANDER HEIDEN, MATTHEW G	2	2	704	167	1	0	17k	\$3.0m	2000

An initial search of a research term or terms produces three displays: Results, Refine Your Search, and Related Terms.

Filters

Filtering options are based on which type of search is selected (within My Institution, System, State, National). Filters affect returned Scholars and Networks.



The image shows a 'Refine Your Search' panel with a blue dropdown arrow in the top right corner. It contains five filter categories, each with a dropdown menu:

- LIMIT TO ALUMNI:** A dropdown menu with 'No' selected.
- FACULTY RANK:** A dropdown menu with 'All' selected.
- DEGREE YEAR:** Two dropdown menus, both with 'Any' selected, separated by the word 'to'.
- TAXONOMIES:** A dropdown menu with 'All' selected.
- WORKS:** Two dropdown menus, both with 'Any' selected, separated by the word 'to'.

All types of searches have the following filters:

Limit to Alumni

Only returns results for scholars with degree institution = user institution.

Faculty Rank

Only returns results for scholars with selected faculty rank.

Can select any combination of Professor, Associate, Assistant, or Other.

Degree Year

Only returns results for scholars with degree year in selected range.

Taxonomies

Only returns results for scholars associated with selected Level 1 taxonomic classifications.

Works

Returns results based only on works published/awarded/started in selected range.

Searches within System, State, National have the following additional filters:

Institutions

Users can refine by category or select individual institutions.

Category options are: AAU, Public/Private, Carnegie, and Land Grant.

“Refine by Institution” allows manual selection of institutions within the system, state or nation.

A search only returns results for scholars at selected institutions.

Refine Your Search ▼

INSTITUTIONS: All ▼

LIMIT TO ALUMNI: All

FACULTY RANK: Refine by Institution

DEGREE YEAR: Refine by Category

TAXONOMIES: All ▼

WORKS: Any ▲ to Any ▲

Results

The Results section is divided into Scholars, Funding, Networks, and Recent Activity tabs. The Scholars tab consists of a list of individuals whose research is associated with the search. The Funding tab consists of a list of funding opportunities related to the search. Networks shows national, state or institutional collaborative networks between faculty associated with the search. Recent Activity shows the most recent publications and grants associated with the search. Results can be downloaded in a CSV file by clicking the download button located in the top left of the table: [Download](#). The results table can be expanded by clicking the expand button located in the top left of the table: [Expand](#). The result set can be further refined by using the “search within results” search bar located on the top right of the results.

Scholars

SCHOLARS											
FUNDING NETWORKS RECENT ACTIVITY											
Filter by Discipline Download Expand Search within results											
Inst	Name	Collabs	Articles	Awards	Books	Citations	IC-Index	Grant #	Grant \$	Deg. Yr.	
MIT	TARRANT, ANN Biology (WHOI)	1	9	83	49	0	0	874	8	\$2.8m	2002
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MIT	CHEN, XIAO Learning & Memory, Picower Institute for	0	5	9	7	0	0	58	0	\$0.0	2017
MIT	BROWN, EMERY NEAL Brain and Cognitive Sciences	1	4	755	204	11	1	7k	22	\$28.7m	1988
MIT	JACKS, TYLER E Biology	1	2	845	186	9	1	23k	28	\$93.8m	1988
MIT	VANDER HEIDEN, MATTHEW G	2	2	704	167	1	0	17k	5	\$3.0m	2000

The Scholars tab lists up to 200 faculty entries that can be filtered by discipline by clicking the filter button: [Filter by Discipline](#). The following is shown for each scholar in the results set:

- Current Institution
- Faculty Name and departmental affiliation
- Number of collaborators with collaborations **related to the search**
- Number of works **related to the search**
- Number of total Collaborations (co-authored articles and grant co-pi's)
- Number of total Articles
- Number of total Awards
- Number of total Books
- Number of total Citations
- Recent Citation Index *

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- Number of total Grants
- Total Grant Dollars
- Year of Terminal Degree

* The Recent Citations Index, or RC-Index, is a metric which allows comparison of citation activity across disciplines and academic ranks. More specifically, this is composed by first calculating the H-Index over the last 7 years of publications, and then normalizing this value relative to discipline and academic rank averages (e.g. Professors of Physics, Assistant Professors of Geology). When a scholar has multiple discipline affiliations (and perhaps multiple ranks), the average index for all such combinations is used as their RC-Index. Scholars with no known discipline affiliations or without a standard academic rank will not have an RC-Index.

Faculty Profile

Clicking on an individual's name in the returned faculty names brings up the individual's profile. A researcher's profile includes the following displays:

- Works
- Timeline
- Related Terms and People
- Collaborations
- Suggested Funding
- Suggested Honorific Awards

Works

LANGER, ROBERT S

Massachusetts Institute of Technology
Professor

Department Affiliations: Biological Engineering, Chemical Engineering, Institute for Medical Engineering and Science (IMES), Mechanical Engineering
Program Affiliations: Biological Engineering, Chemical Engineering, Health Sciences and Technology, Mechanical Engineering

WORKS | TIMELINE | RELATED TERMS AND PEOPLE | COLLABORATIONS | SUGGESTED FUNDING | SUGGESTED HONORIFIC AWARDS

Filter by Year | Download | Search within results

804	Articles	▼
57	Awards	▼
7	Books	▼
32	Book Chapters	▼
10	Conference Proceedings	▼
23	Grants	▼
460	Patents	▼

This section provides a complete listing of that individual's research activity. Works includes journal articles, grants, awards, conference proceedings, books, patents, clinical trials, and book chapters. Clicking on a content type will expand the section to show the corresponding works.

7 Books

32 Book Chapters

2017	Book Chapter	Cancer Nanotechnology Book: Holland-Frei Cancer Medicine ISBN: 9781118934692
2016	Book Chapter	Intracellular Delivery of Biomolecules by Mechanical Deformation Book: Micro- and Nanosystems for Biotechnology ISBN: 9783527332816
2016	Book Chapter	Drug Delivery Modalities Book: Principles of Pharmacology ISBN: 9781451191004
2015	Book Chapter	

10 Conference Proceedings

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Timeline

FOURNIER, GREGORY P
 Massachusetts Institute of Technology
 Assistant

Department Affiliations: Earth, Atmospheric and Planetary Sciences
 Program Affiliations: Geology, Geochemistry and Geobiology, Microbiology

WORKS | **TIMELINE** | RELATED TERMS AND PEOPLE | COLLABORATIONS | SUGGESTED FUNDING | SUGGESTED HONORIFIC AWARDS

Date Download

2018

- A Briefly Argued Case That Asgard Archaea are Part of the Eukaryote Tree
- Dating Phototrophic Microbial Lineages with Reticulate Gene Histories
- Environmental Adaptation From the Origin of Life to the Last Universal Common Ancestor
- Horizontal Gene Transfer Constrains the Timing of Methanogen Evolution

2017

- Paleoproterozoic Sterol Biosynthesis and the Rise of Oxygen
- CALIBRATING THE MOLECULAR RECORD OF CYANOBACTERIAL EVOLUTION
- ESTABLISHING STRATIGRAPHIC PRINCIPLES OF MICROBIAL GENOME EVOLUTIONARY HISTORY
- GENOMIC APPROACHES TO EXPLORING the GOE

2016

- MOLECULAR CLOCKS FOR MOLECULES: AN INTERSECTION OF GEOBIOLOGY and GEOCHRONOLOGY
- Collaborative Research: Integrating the Geological and Genomic Records: Time-Calibrating Earth's Dynamic Biogeochemical History

2015

- Ancestral Reconstruction of a Pre-LUCA Aminoacyl-tRNA Synthetase Ancestor Supports the Late Addition of Trp to the Genetic Code
- Ancient Horizontal Gene Transfer and the Last Common Ancestors

2014

- Methanogenic Burst in the End-Permian Carbon Cycle

This section presents the individual's research activity in chronological order.

Related Terms and People

LANGER, ROBERT S
 Massachusetts Institute of Technology
 Professor

Department Affiliations: Biological Engineering, Chemical Engineering, Institute for Medical Engineering and Science (IMES), Mechanical Engineering
 Program Affiliations: Biological Engineering, Chemical Engineering, Health Sciences and Technology, Mechanical Engineering

WORKS | TIMELINE | **RELATED TERMS AND PEOPLE** | COLLABORATIONS | SUGGESTED FUNDING | SUGGESTED HONORIFIC AWARDS

Download

SIMILAR SCHOLARS Download

Ahlberg, Eben Case Western Reserve University	Gemschert, Richard A University of Illinois at Chicago	Park, Kinam Purdue University	Wang, Chun University of Minnesota, Twin Cities
Anderson, Daniel Goffin Massachusetts Institute of Technology	Green, Jordan Johns Hopkins University	Popko, Melissa A University of Texas at Austin, The	Yang, Fan Stanford University
Benoit, Danielle S W University of Rochester	Gueta, Mukesh Kumar Vanderbilt University	Sattman, W Mark Yale University	Yang, Jiah Pennsylvania State University, The
Berkland, Cory J University of Kansas, The	Loong, Kaim W Columbia University	Sekura, Tamas University of California, Los Angeles	Zhang, Ming University of Washington
Burdick, Jason A University of Pennsylvania	Mia, Peter X University of Michigan	Stegweert, Daniel John University of Texas Southwestern Medical Center at Dallas, The	
Duval, Craig L Vanderbilt University	Miles, Antonio G Rice University	Vesali, Omid Rice University	
Sattman, W Mark Texas A&M University	Higgins, Kyle T University of Texas Arlington	Vorovich, Hristi A Case Western Reserve University	

This view presents Research Terms: the most relevant terms related to that individual's research, and Similar Scholars: individuals working in the same area of inquiry.

- Research Terms provides the user with more conceptual avenues to fully explore research that is being conducted in the area and its cognate topics. This resource allows users to cast as wide a net as they wish.
- Similar Scholars lists individuals working in the same area of inquiry and can be used as the first step in identifying possible candidates for a research team.

Collaborations

This section presents the connections of that individual to other faculty through article, conference proceeding, grant, book, book chapter, patent, and clinical trial collaboration, both at

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their home institution and nationally. Blue nodes indicate collaborations within the scholar's home institution, black nodes indicate collaborations outside of the scholar's home institution. When a specific set of institutions have been selected in Refine Your Search, scholars from those institutions appear with green nodes. Users can zoom the view of those connections by scrolling the mouse wheel.



Suggested Funding

Suggested Funding presents a list of available funding opportunities for the selected scholar. Opportunities are identified by indexing the funding database against the scholar's research terms. The table displays the title and sponsors of the opportunity, the last deadline (clickable for calendar appointments), the amount (where available), and a "Why?" column that, when clicked, shows keywords common to both the scholar and the opportunity.

Title/Sponsor	Last Deadline	Amount	Why?	☆
Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R43) <i>NIDCD, NIH, NICHD National Institute of Child Health and Human Development</i>	1/5/20	Not Available	?	☆
Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R41) <i>NIDCD, NIH, NICHD National Institute of Child Health and Human Development</i>	1/5/20	Not Available	?	☆
Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R01) <i>NIH, NICHD National Institute of Child Health and Human Development</i>	5/7/20	Not Available	?	☆
Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R21) <i>NIH, NICHD National Institute of Child Health and Human Development</i>	5/7/20	\$200k	?	☆
Development of Appropriate Pediatric Formulations and Pediatric Drug Delivery Systems (R03) <i>NIH, NICHD National Institute of Child Health and Human Development</i>	5/7/20	\$50k	?	☆
Platform Delivery Technologies for Nucleic Acid Therapeutics (R43/R44) <i>NIH, NIBIB, NIAID, NCATS</i>	9/5/19	Not Available	?	☆
Platform Delivery Technologies for Nucleic Acid Therapeutics (R41/R42) <i>NIH, NIAID, NCATS</i>	9/5/19	Not Available	?	☆
HEAL Initiative: Biofabricated 3D Tissue Models of Nociception, Opioid Use Disorder and Overdose for Drug Screening (UH2/UH3 Clinical Trial Not Allowed) <i>NIH, NCATS, NINDS</i>	2/28/19	\$500k	?	☆
Alzheimer's Drug-Development Program (U01 Clinical Trial Optional) <i>NIH, NIA</i>	9/7/21	Not Available	?	☆
Screening Cell Response to Tissue Scaffold Properties <i>NIST, NRC Research Associateship Programs RAP</i>	8/1/19	\$74k	?	☆
Screening Osteoblast Response to Calcium Phosphate Composite Tissue Scaffolds <i>NIST, NRC Research Associateship Programs RAP</i>	8/1/19	Not Available	?	☆

Suggested Honorific Awards

The Suggested Awards tool presents, for a given scholar, a list of awards for which the scholar could potentially be nominated. For a given scholar and award, a Suitability Index is calculated by comparing characteristics of the scholar with those of previous awardees. These characteristics

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include comparative benchmarks, previous co-authorship, academic age at the time of receiving the award, institution and academic unit affiliations, and scholarly research similarity. Due to the dependence on comparative benchmarks, scholars that are not associated with either a department or program will not have any suggested awards.

The initial view when navigating to Suggested Honorific Awards displays all awards where the scholar has a Suitability Index equal to or greater than 0.6. The view displays, from left to right:

- Suitability Index (SI)
- Award Name
- Granting Organization
- Data related to the selected scholar that may support selection as a nominator or letter writer:
 - o Number of previous awardees at the same Institution
 - o Number of previous awardees having a common academic unit affiliation
 - o Number of previous awardees with co-authored scholarly works
- NRC prestige classification of the award
- Award nomination opening month (where available)
- Award nomination closing month (where available)

SI	Award Name	Granting Organization	Common Institution	Common Unit	Collaborators	Prestige	Opens	Closes
1.0	Fellow	American Physical Society	92	13	9			Apr
1.0	Fellowship	John Simon Guggenheim Memorial Foundation	78	7	11	H	Jul	Sep
1.0	Global Grand Challenges	Bill and Melinda Gates Foundation	0	0	0			
1.0	National Academies Keck Futures Initiative (NAKFI) Grant	W. M. Keck Foundation	0	0	0			
0.9	Arthur C Cope Scholar Award	American Chemical Society	10	1	5	P		Nov
0.9	Gold Medal Award	American Institute of Chemists	1	0	2	P		Oct
0.9	Investigator/Alumni Investigator	Howard Hughes Medical Institute	22	5	18	H		Jun
0.9	School of Natural Science/Visitor	Institute for Advanced Study	27	2	7			
0.8	American Academy of Microbiology Fellow	American Society for Microbiology	4	1	5			Nov
0.8	Faculty Research Award	Google	41	2	3		Jul	
0.8	Fellow	American Society of Mechanical Engineers	18	16	2			
0.8	Fellow	Institute for Electrical and Electronics Engineers (IEEE)	60	7	4			Mar
0.8	Fellow	International Society for Optics and Photonics (SPIE)	3	1	2			Sep
0.8	Fellow	Optical Society of America, The	16	2	2	P		Jun

The three entries above for “Number of previous awardees...” are displayed in blue text and are clickable. Clicking on any of them will open the Related Recipients dialog box and display the corresponding data set. This dialog box shows, for the selected scholar and award, the previous awardees who are affiliated with the same Institution (Common Institution), who are affiliated with the same academic unit (Common Unit), and who are previous collaborators. Note that “previous collaborators” are defined as having an article, conference proceeding, grant, or book collaboration with the selected scholar. The scholar profiles of previous awardees can be viewed by clicking their name.

Fellow American Physical Society		
Related Recipients		
COMMON INSTITUTION	COMMON UNIT	COLLABORATORS
Download		
Year Won	Name	Past Collaboration
2017	REIS, PEDRO MIGUEL	
2016	GHONIEM, AHMED F	
2014	MIRNY, LEONID A	
2014	TRIANTAFYLLOU, MICHAEL S	Y
2012	CHEN, GANG	
2012	HOSOI, ANETTE E	
2010	AKYLAS, TRIANTAPHYLLOS R	
2007	LLOYD, SETH	

Clicking anywhere else within an award entry will transition to the Award Profile. The Award Profile contains an overview of the award, a listing of up to the 100 most recent recipients, and an analysis of select previous awardee characteristics.

The Overview tab shows a description of the award and any eligibility requirements, along with the opening and closing months for nominations, the month that new awardees are announced, the periodicity of the award, any associated monetary amount, and a link to the award website.

Investigator/Alumni Investigator	
Howard Hughes Medical Institute	
OVERVIEW	RECIPIENTS
<p>Description</p> <p>By employing scientists as investigators rather than awarding them grants for specific research projects, HHMI provides its researchers long-term, flexible funding that gives them the freedom to explore and, if necessary, change direction. HHMI investigators have support to follow their ideas through to fruition, even if that process takes a very long time. Our philosophy of selecting people, not projects seeks researchers who bring innovative approaches to the study of many different biological problems through the biomedical disciplines of genetics, cell biology, developmental biology, biochemistry, and neuroscience as well as adjacent fields of biophysics, chemical biology, biomedical engineering, and computational biology. Plant scientists, evolutionary biologists, and patient-oriented researchers are also in the ranks of current investigators. HHMI investigators are based at host institutions across the United States. This arrangement currently represents collaborative partnerships with more than 60 research institutions. Investigators continue to participate in educational and administrative activities at their host institutions and receive additional research support from a variety of sources.</p> <p>Eligibility</p> <p>Through periodic competitions, HHMI accepts applications from researchers at more than 200 research institutions across the United States, with the aim of identifying individuals who have the potential to make significant contributions to science. Investigators continue to be based at their host institutions; however, HHMI investigators and some of their laboratory personnel are Institute employees and are supported by HHMI field offices throughout the country. Each investigator receives his or her full salary, benefits, and a research budget from HHMI. Appointment is for a five-year term, which may be renewed after an exacting review process.</p>	<p>Nominations Open: N/A</p> <p>Nominations Close: June</p> <p>Awardees Announced: January</p> <p>Periodicity: Sporadic</p> <p>Award Amount: N/A</p> <p>Award Website</p>

The Recipients tab shows up to the 100 most recent recipients of the award. Specifically, it displays the year won, name, institution, and primary unit affiliation for the awardees. Clicking anywhere within an entry will navigate to the corresponding scholar profile.

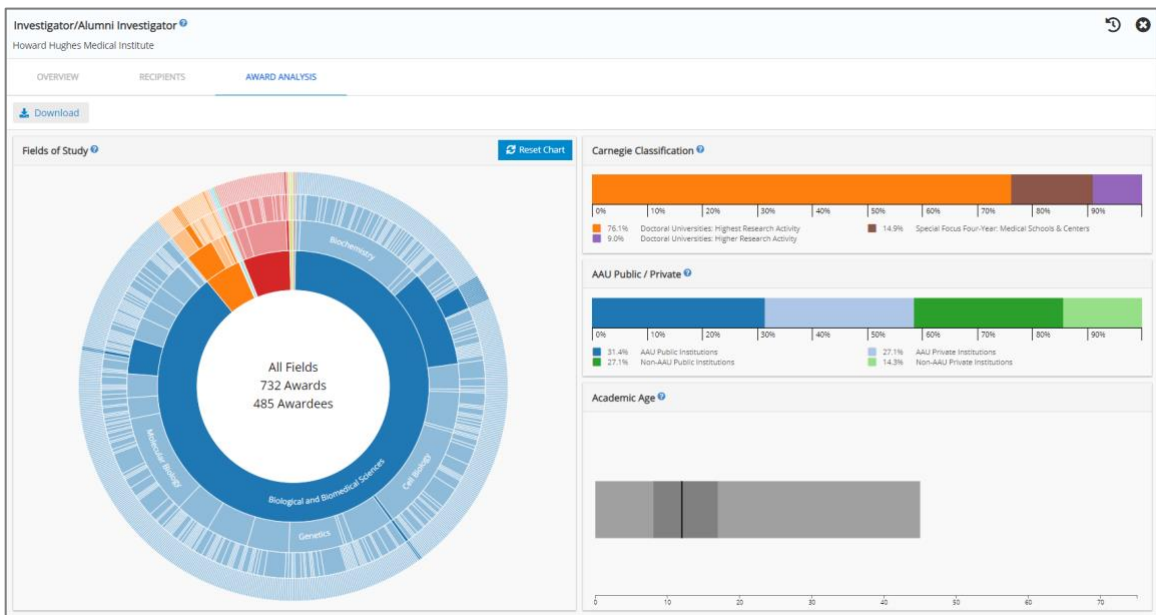
Investigator/Alumni Investigator
Howard Hughes Medical Institute

OVERVIEW RECIPIENTS AWARD ANALYSIS

Download

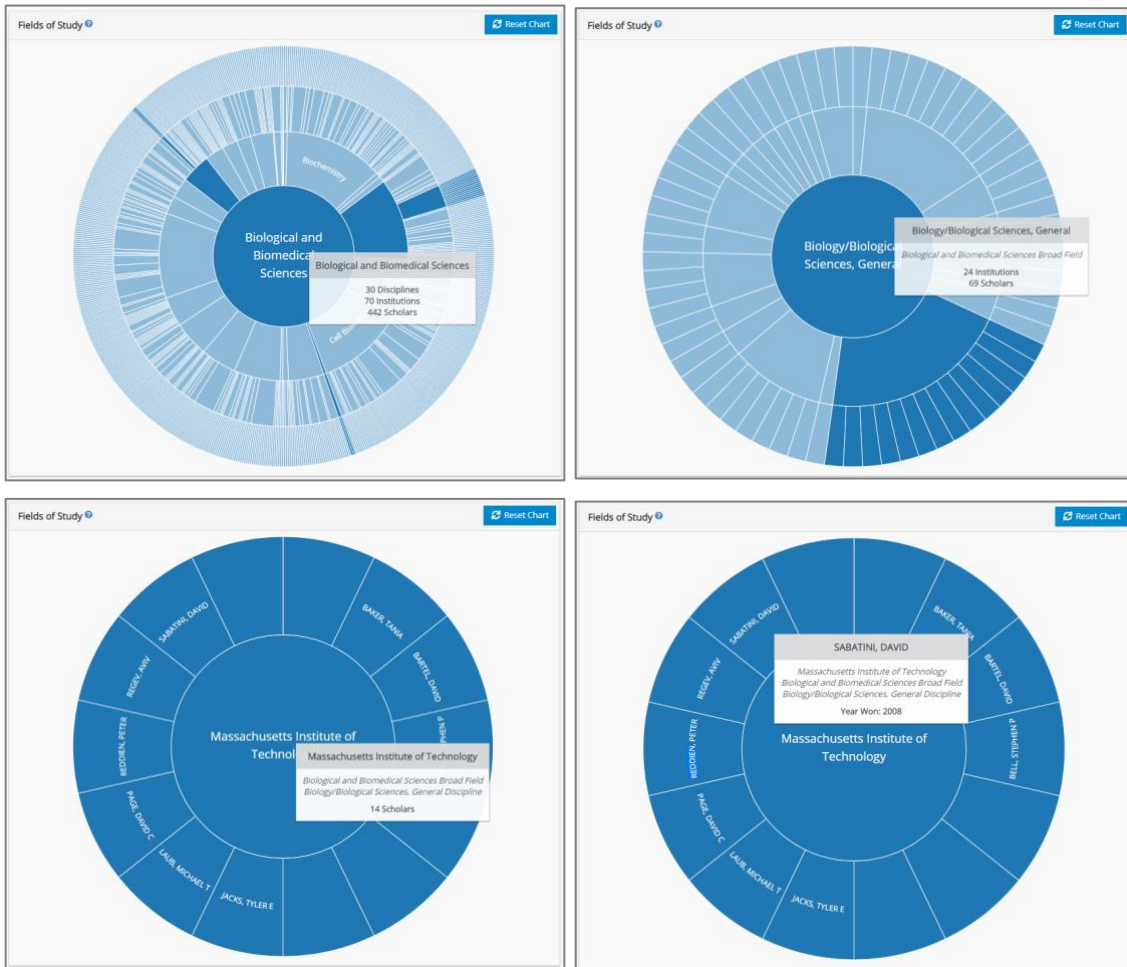
Year Won If	Name If	Institution #	Primary Unit #
2018	BERNHARDT, THOMAS G	Harvard University	Genetics, Department of
2018	BOYDEN, EDWARD	Massachusetts Institute of Technology	Biological Engineering, Department of
2018	CHANG, HOWARD Y	Stanford University	Cancer Biology
2015	CHENG, YIFAN	University of California, San Francisco	Biochemistry and Biophysics, Department of
2015	DEKKER, JOB	University of Massachusetts Medical School	Biochemistry and Molecular Pharmacology, Department of
2015	FRANK, LOREN	University of California, San Francisco	Physiology, Department of
2015	GARRAWAY, LEVI ALEXANDER	Harvard University	BBS- Cancer Biology
2015	GLAUKSINGER, BRITTA	University of California, Berkeley	Molecular and Cell Biology, Department of
2014	DESSEROTH, KARL	Stanford University	Bioengineering, Department of
2014	HE, CHUAN	University of Chicago, The	Biochemistry and Molecular Biology, Department of
2014	IWASAKI, AKIKO	Yale University	Immunobiology, Department of
2013	BRAINARD, MICHAEL	University of California, San Francisco	Physiology, Department of
2013	HUNTER, NEIL	University of California, Davis	Cell Biology and Human Anatomy, Department of

The Award Analysis tab contains a wealth of information for certain characteristics of all previous awardees. The view is comprised of the fields of study sunburst, the Carnegie classification and AAU public / private bar charts, and the academic age box plot distribution.

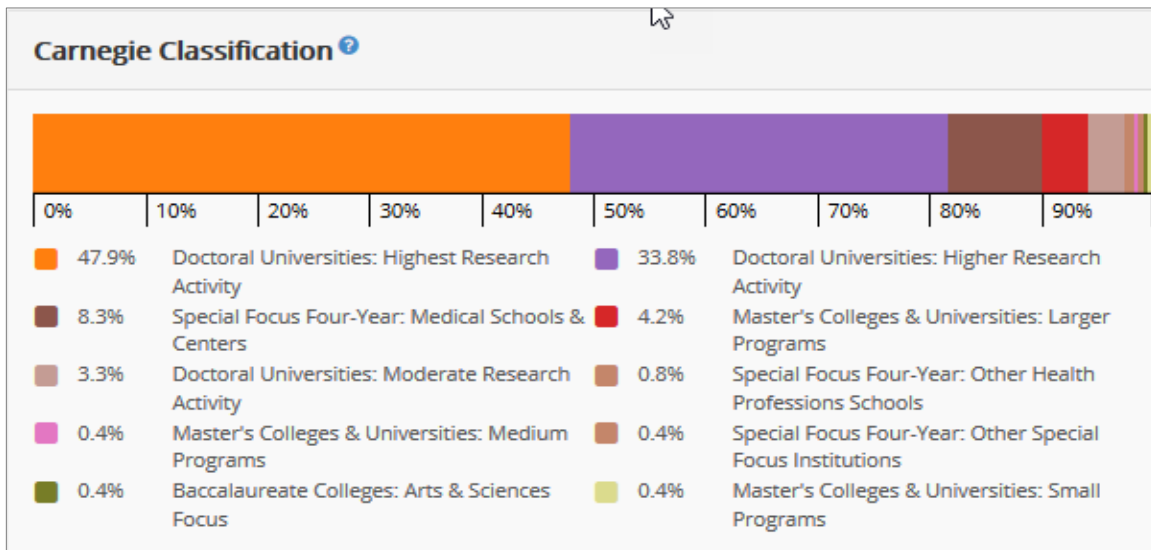


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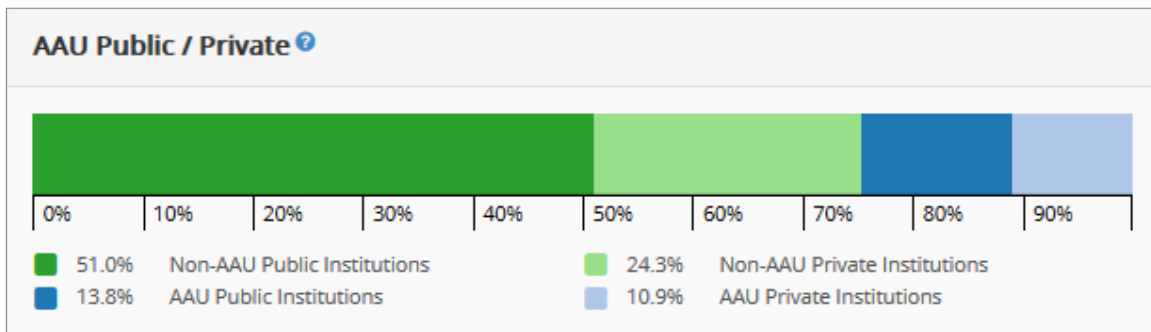
The Fields of Study sunburst is an interactive graphic showing the broad field, discipline, and institution affiliations of previous awardees. The default, fully expanded view displays data for all fields of study, and a count of the number of awardees for the selected award. Moving out from the center there are 4 rings: broad fields, disciplines, institutions, and scholars. Clicking on any of the affiliation sections will contract the view so that the remaining outer rings are relevant to the selected section. For instance, clicking on a broad field will contract the graphic to show disciplines, institutions, and awardees that are affiliated with the selected broad field. Clicking on the center of a contracted view will expand the graphic by one layer, while clicking on the Reset Chart button will revert the graphic to its default state. Hovering over a segment will display a tooltip, showing the inner ring path to the segment (*italics*) and metadata for outer rings related to the segment (**bold**).



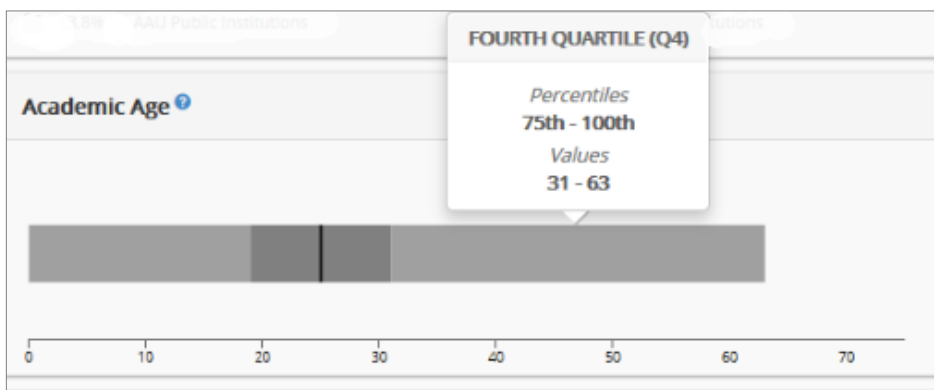
The Carnegie Classification bar chart shows the percentage of previous awardees that currently reside at institutions having a given Carnegie Classification.



The AAU Public / Private bar chart shows the percentage of previous awardees that currently reside at institutions having a given combination of AAU Membership and Public / Private Control.



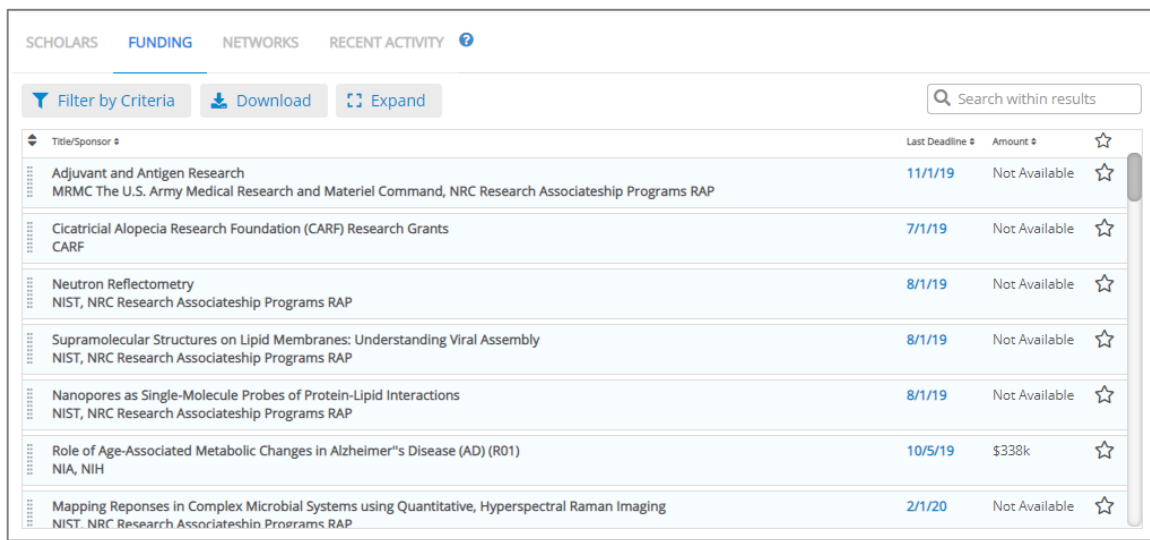
The Academic Age box plot shows the distribution of the academic ages of previous awardees at the time they received the award.



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Funding

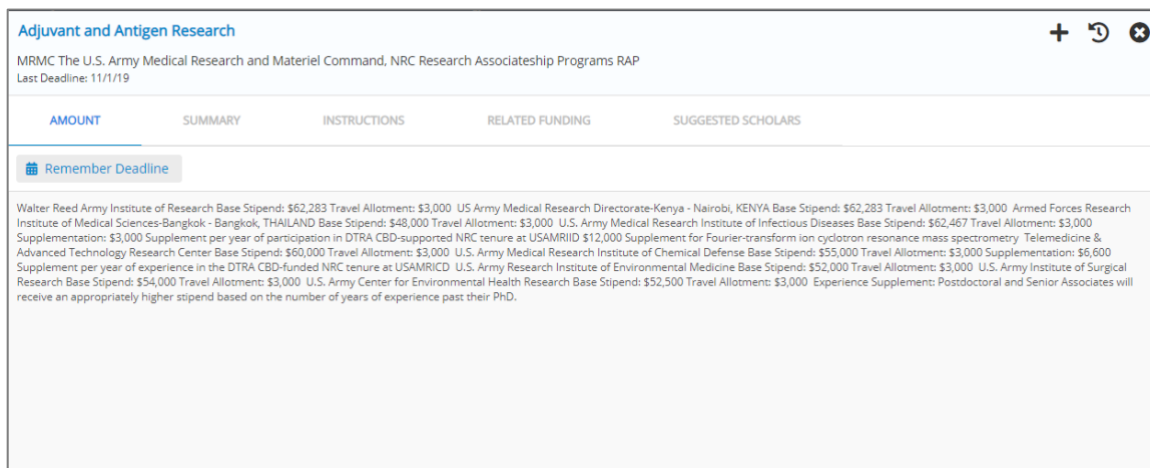
The Funding tab lists up to 200 opportunities sorted by relevance. Records include grant title, last deadline, sponsors, and are clickable to display a funding profile. Funding opportunities can be filtered by sponsor, sponsor type, submission type, category, status, and grant type by clicking the filter button: [Filter by Criteria](#).



Title/Sponsor	Last Deadline	Amount
Adjuvant and Antigen Research MRMC The U.S. Army Medical Research and Materiel Command, NRC Research Associateship Programs RAP	11/1/19	Not Available
Cicatrical Alopecia Research Foundation (CARF) Research Grants CARF	7/1/19	Not Available
Neutron Reflectometry NIST, NRC Research Associateship Programs RAP	8/1/19	Not Available
Supramolecular Structures on Lipid Membranes: Understanding Viral Assembly NIST, NRC Research Associateship Programs RAP	8/1/19	Not Available
Nanopores as Single-Molecule Probes of Protein-Lipid Interactions NIST, NRC Research Associateship Programs RAP	8/1/19	Not Available
Role of Age-Associated Metabolic Changes in Alzheimer's Disease (AD) (R01) NIA, NIH	10/5/19	\$338k
Mapping Reponses in Complex Microbial Systems using Quantitative, Hyperspectral Raman Imaging NIST, NRC Research Associateship Programs RAP	2/1/20	Not Available

Clicking on a funding opportunity in the Funding Results brings up the opportunity's profile. The title is a link to the external funding opportunity site, and the header also contains the sponsor(s), dollars per award, and last deadline. The Remember Deadline button on the left allows the user to export the next upcoming or last deadline to the calendar of their choice. The funding profile contains the following sections:

Amount



Adjuvant and Antigen Research
MRMC The U.S. Army Medical Research and Materiel Command, NRC Research Associateship Programs RAP
Last Deadline: 11/1/19

AMOUNT SUMMARY INSTRUCTIONS RELATED FUNDING SUGGESTED SCHOLARS

[Remember Deadline](#)

Walter Reed Army Institute of Research Base Stipend: \$62,283 Travel Allotment: \$3,000 US Army Medical Research Directorate-Kenya - Nairobi, KENYA Base Stipend: \$62,283 Travel Allotment: \$3,000 Armed Forces Research Institute of Medical Sciences-Bangkok - Bangkok, THAILAND Base Stipend: \$48,000 Travel Allotment: \$3,000 U.S. Army Medical Research Institute of Infectious Diseases Base Stipend: \$62,467 Travel Allotment: \$3,000 Supplementations: \$3,000 Supplement per year of participation in DTRA CBD-supported NRC tenure at USAMRIID \$12,000 Supplement for Fourier-transform ion cyclotron resonance mass spectrometry. Telemedicine & Advanced Technology Research Center Base Stipend: \$60,000 Travel Allotment: \$3,000 U.S. Army Medical Research Institute of Chemical Defense Base Stipend: \$55,000 Travel Allotment: \$3,000 Supplementations: \$6,600 Supplement per year of experience in the DTRA CBD-funded NRC tenure at USAMRICD U.S. Army Research Institute of Environmental Medicine Base Stipend: \$52,000 Travel Allotment: \$3,000 U.S. Army Institute of Surgical Research Base Stipend: \$54,000 Travel Allotment: \$3,000 U.S. Army Center for Environmental Health Research Base Stipend: \$52,500 Travel Allotment: \$3,000 Experience Supplement: Postdoctoral and Senior Associates will receive an appropriately higher stipend based on the number of years of experience past their PhD.

This section provides information related to the dollar amount and number of grants.

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Summary

Adjuvant and Antigen Research

MRMC The U.S. Army Medical Research and Materiel Command, NRC Research Associateship Programs RAP
Last Deadline: 11/1/19

AMOUNT	SUMMARY	INSTRUCTIONS	RELATED FUNDING	SUGGESTED SCHOLARS
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Remember Deadline

This program features research on novel methods of delivery including transcutaneous immunization and development of adjuvants and liposomes as carriers of vaccines. It also includes oil-in-water emulsions; the immunology of lipids; and lipid metabolism of cultured cells. Additional areas of research include (1) development of antiviral vaccines, particularly HIV; (2) creation of monoclonal antibodies to lipids, proteins, and peptides; (3) studies on biological and biochemical effects of adjuvants and immunomodulators; (4) studies on chemistry, immunology, and biology of endotoxin and lipid A; (5) intracellular fate of liposomes and liposomal antigens; (6) mechanisms of immunologic presentation of liposomal antigens; and (7) interaction of HIV-1 with cells and development of novel assays for HIV-1 neutralization. References Brown BK, et al: *Journal of Virology* 81: 2087, 2007 Karasavvas N, et al: *Biochemical Biophysical Research Communications* 366: 982, 2008

This section contains the description of the grant, such as background or research objectives. Any email addresses or web links appear as blue, boldface hyperlinks.

Instructions

Role of Age-Associated Metabolic Changes in Alzheimer's Disease (AD) (R01)

NIA, NIH
\$ Per Award: \$337,500
Last Deadline: 10/5/19

AMOUNT	SUMMARY	INSTRUCTIONS	RELATED FUNDING	SUGGESTED SCHOLARS
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Remember Deadline

1. Requesting an Application Package Buttons to access the online ASSIST system or to download application forms are available in Part 1 of this FOA. See your administrative office for instructions if you plan to use an institutional system-to-system solution. 2. Content and Form of Application Submission It is critical that applicants follow the Research (R) Instructions in the SF424 (R&R) Application Guide, including Supplemental Grant Application Instructions except where instructed in this funding opportunity announcement to do otherwise. Conformance to the requirements in the Application Guide is required and strictly enforced. Applications that are out of compliance with these instructions may be delayed or not accepted for review. For information on Application Submission and Receipt, visit Frequently Asked Questions Application Guide, Electronic Submission of Grant Applications. Letter of Intent Although a letter of intent is not required, is not binding, and does not enter into the review of a subsequent application, the information that it contains allows IC staff to estimate the potential review workload and plan the review. By the date listed in Part 1, Overview Information, prospective applicants are asked to submit a letter of intent that includes the following information: Descriptive title of proposed activity Name(s), address(es), and telephone number(s) of the PI(s)/PI(s) Names of other key personnel Participating institution(s) Number and title of this funding opportunity The letter of intent should be sent to: Yih-Woei Fridell, Ph.D. National Institute on Aging (NIA) Telephone: 301-496-7847 Email: yih-woei.fridell@nih.gov Page Limitations All page limitations described in the SF424 Application Guide and the Table of Page Limits must be followed. Instructions for Application Submission The following section supplements the instructions found in the SF424 (R&R) Application Guide and should be used for preparing an application to this FOA. SF424(R&R) Cover All instructions in the SF424 (R&R) Application Guide must be followed. SF424(R&R) Project/Performance Site Locations All instructions in the SF424 (R&R) Application Guide must be followed. SF424(R&R) Other Project Information All instructions in the SF424 (R&R) Application Guide must be followed. SF424(R&R) Senior/Key Person Profile All instructions in the SF424 (R&R) Application Guide must be followed. R&R or Modular Budget All instructions in the SF424 (R&R) Application Guide must be followed. R&R Subaward Budget All instructions in the SF424 (R&R) Application Guide must be followed. PHS 398 Cover Page Supplement All instructions in the SF424 (R&R) Application Guide must be followed. PHS 398 Research Plan All instructions in the SF424 (R&R) Application Guide must be followed, with the following additional instructions: Resource Sharing Plan: Individuals are required to comply with the instructions for the Resource Sharing Plans as provided in the SF424 (R&R) Application Guide, with the following modification: All applications, regardless of the amount of direct costs requested for any one year, should address a Data Sharing Plan. Appendix: Do not use the Appendix to circumvent page limits. Follow all instructions for the Appendix as described in the SF424 (R&R) Application Guide. PHS Inclusion Enrollment Report Form only available in FORMS-D application packages for use with due dates on or before January 24, 2018. When conducting clinical research, follow all instructions for completing PHS Inclusion Enrollment Report as described in the SF424 (R&R) Application Guide. PHS Human Subjects and Clinical Trials Information Form only available in FORMS-E application packages for use with due dates on or after January 25, 2018. When involving NIH-defined human subjects research, clinical research, and/or clinical trials follow all instructions for the PHS Human Subjects and Clinical Trials Information form in the SF424 (R&R) Application Guide, with the following additional instructions: If you answered "Yes" to the question "Are Human Subjects Involved?" on the R&R Other Project Information form, you must include at least one human subjects study record using the Study Record: PHS Human Subjects and Clinical Trials Information form or a Delayed Onset Study record. Study Record: PHS Human Subjects and Clinical Trials Information All instructions in the SF424 (R&R) Application Guide must be followed. Delayed Onset Study: All instructions in the SF424 (R&R) Application Guide must be followed. PHS Assignment Request Form All instructions in the SF424 (R&R) Application Guide must be followed. Foreign Institutions Foreign (non-U.S.) institutions must follow policies described in the NIH Grants Policy Statement, and procedures for foreign institutions described throughout the SF424 (R&R) Application Guide. 3. Unique Entity Identifier and System for Award Management (SAM) See Part 1, Section III.1 for information regarding the requirement for obtaining a unique entity identifier and for completing and maintaining active registrations in System for Award Management (SAM), NATO Commercial and Government Entity (NCAGE) Code (if applicable), eRA Commons, and Grants.gov. 4. Submission Dates and Times Part I, Overview Information contains information about Key Dates and times. Applicants are encouraged to submit applications before the due date to ensure they have time to make any application corrections that might be necessary for successful submission. When a submission date falls on a weekend or Federal holiday, the application deadline is automatically extended to the next business day. Organizations must submit applications to Grants.gov (the online portal to find and apply for grants across all Federal agencies). Applicants must then complete the submission process by tracking the status of the application in the eRA Commons. NIHs

This section details the application process for the funding opportunity. As with the Summary section, any email addresses or web links appear in blue boldface.

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Related Funding

Role of Age-Associated Metabolic Changes in Alzheimer's Disease (AD) (R01)				
NIA, NIH \$ Per Award: \$337,500 Last Deadline: 10/5/19				
AMOUNT	SUMMARY	INSTRUCTIONS	RELATED FUNDING	SUGGESTED SCHOLARS
Filter by Criteria Download Remember Deadline <input type="text" value="Search within results"/>				
Title/Sponsor			Last Deadline	Amount
Dynamic Interactions between Systemic or Non-Neuronal Systems and the Brain in Aging and in Alzheimer's Disease (R01) <i>NIH, NIA</i>			11/5/19	Not Available
Sleep disorders and circadian clock disruption in Alzheimer's disease and other dementias of aging (R01 Clinical Trial Not Allowed) <i>NIH, NIA</i>			11/6/20	\$833k
Age-related Microbiota Changes and their Implications in Chronic Disease Prevention, Treatment and Progression (R21 Clinical Trial Optional) <i>NIH, NCI, NIDCR, NIA, NINR</i>			3/16/21	Not Available
Age-related Microbiota Changes and their Implications in Chronic Disease Prevention, Treatment and Progression (R01 Clinical Trial Optional) <i>NIH, NCI, NIDCR, NIA, NINR</i>			3/5/21	Not Available
Therapeutic Strategies for the Converging TB/T2DM/HIV Epidemics (R01) <i>NIH, NIDDK, NIAID</i>			9/7/20	Not Available

This section provides a selection of funding opportunities that are related to the selected opportunity. The relation is determined through analysis of the text which appears in the Summary sections. Each opportunity can be exported to a calendar through the date link in the Last Deadline column or viewed by clicking on the entry.

Suggested Scholars

Suggested Scholars lists individuals working in the same area of inquiry and can be used as the first step in identifying possible candidates for a research team.

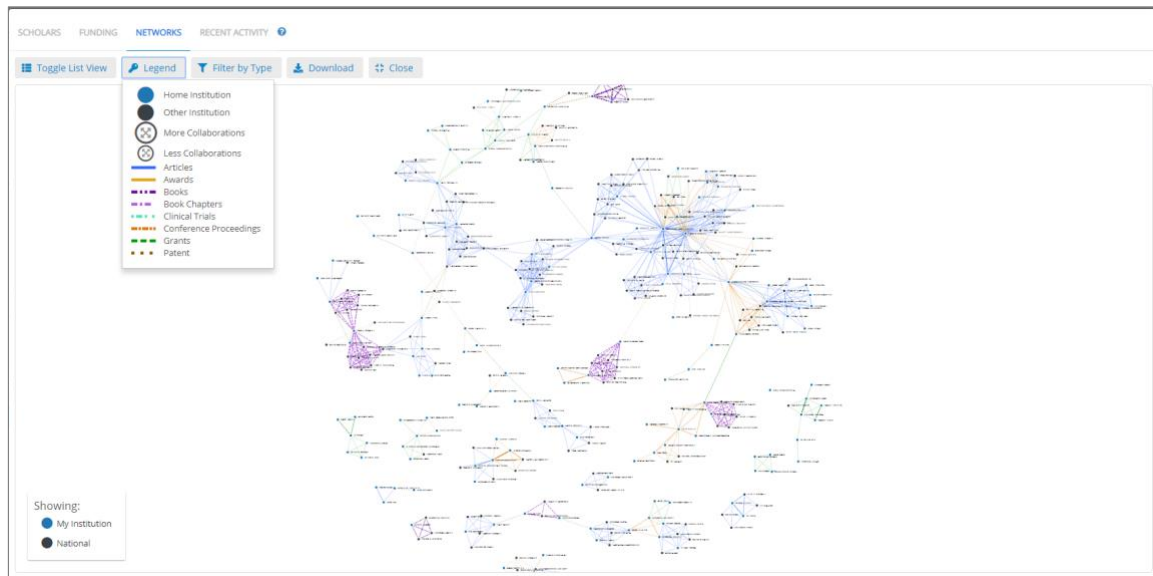
Role of Age-Associated Metabolic Changes in Alzheimer's Disease (AD) (R01)	
NIA, NIH \$ Per Award: \$337,500 Last Deadline: 10/5/19	
AMOUNT	SUMMARY
Remember Deadline	
Agarwal, Anant Electrical Engineering and Computer Sciences, Department of	Kim, Dennis H Biology, Department of
Aluru, Neel Biology (WHOI), Department of	Kim, Joo Yeon McGovern Institute for Brain Research
Bucsa, Wit Physics, Department of	Kimerling, Lionel C Materials Science and Engineering, Department of
Cao, Jianshu Chemistry, Department of	Pentland, Alex Paul Institute for Data, Systems, and Society (IDSS)
Charette, Matthew Marine Chemistry and Geochemistry, Department of	Peucker-ehrenbrink, Bernhard Marine Chemistry and Geochemistry, Department of
Chiang, Yet-ming Materials Science and Engineering, Department of	Shank, Timothy Biology (WHOI), Department of
Demiragli, Zeynep Nuclear Science, Laboratory for	Sinha, Pawan Brain and Cognitive Sciences, Department of
Essigmann, John M Biological Engineering, Department of	Toole, John Physical Oceanography, Department of
Han, Jongyoon Biological Engineering, Department of	Zhang, Shuping Institute for Medical Engineering and Science (IMES)
Jamison, Timothy F Chemistry, Department of	Zuber, Maria Earth, Atmospheric and Planetary Sciences, Department of

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Networks

The Networks map presents established research networks focused on the searched research terms. The bottom left contains a legend with clickable options for “My Institution”, “National”, and “Selected Schools” (when such a selection has been made in Refine Your Search). Clicking an option removes corresponding faculty from the graphic; clicking again adds them back.

The “Toggle List View” button shows the individual works that make up the current Network graphic. The “Legend” button provides a visual description of nodes and edges (shown below). The “Filter by Type” button allows selection of collaborative content types. The “Download” and “Expand” / “Close” buttons download a CSV corresponding to the current graphic, and expand the view into a larger window, respectively.



Recent Activity

Recent Activity provides a list of recent articles, conference proceedings, books, awards, federal grants, patents, clinical trials, and book chapters focused on the research terms. Activity is listed chronologically. The user can focus on specific activities through “Filter by Type.”

The screenshot shows the 'RECENT ACTIVITY' section of a dashboard. At the top, there are navigation tabs: SCHOLARS, FUNDING, NETWORKS, and RECENT ACTIVITY (which is selected). Below the tabs are four filter buttons: 'Date' with an up/down arrow, 'Filter by Type', 'Download', and 'Expand'. The main content area lists three items:

- 2019 Grant**
REU Site: Interdisciplinary Biological Sciences Research and Community Engaged Learning Experiences for Undergraduates
Agency: NSF
Total Amount: \$294,387
Duration: 1/14/2019 - 12/30/2021
Scholars: WOODLEY, SARAH; O'DONNELL, ALLYSON;
- 2019 Article**
Phospholipid Remodeling in Physiology Disease
Journal: Annual Review of Physiology, Vol 81, Issue 1
DOI: <https://doi.org/10.1146/annurev-physiol-020518-114444>
Scholars: TONTOZO, PETER J;
- 2018 Grant**

Project

The Project feature allows users to collect scholars and funding opportunities, save them for later viewing, analyze the virtual team of scholars, and view suggested funding opportunities for the team.


Build a Team

Users can drag and drop scholars and funding opportunities into the Project section.

The screenshot shows the 'Project' section of a dashboard. At the top, there are icons for save, delete, and add. Below the icons are two tabs: 'SCHOLARS' (selected) and 'FUNDING'. The main content area displays a grid of scholar cards, each with a name and a field:

- HONG, MEI (Chemistry)
- LANGER, ROBERT S (Biological Engineering)
- ANDERSON, DANIEL GRIFFITH (Chemical Engineering)
- IRVINE, DARRELL J (Biological Engineering)
- SUMMONS, ROGER E (Earth, Atmospheric and Planetary Sciences)
- PLOEGH, HIDDE (Biology)
- ALEXANDER-KATZ, ALFREDO (Materials Science and Engineering)

Team Analysis

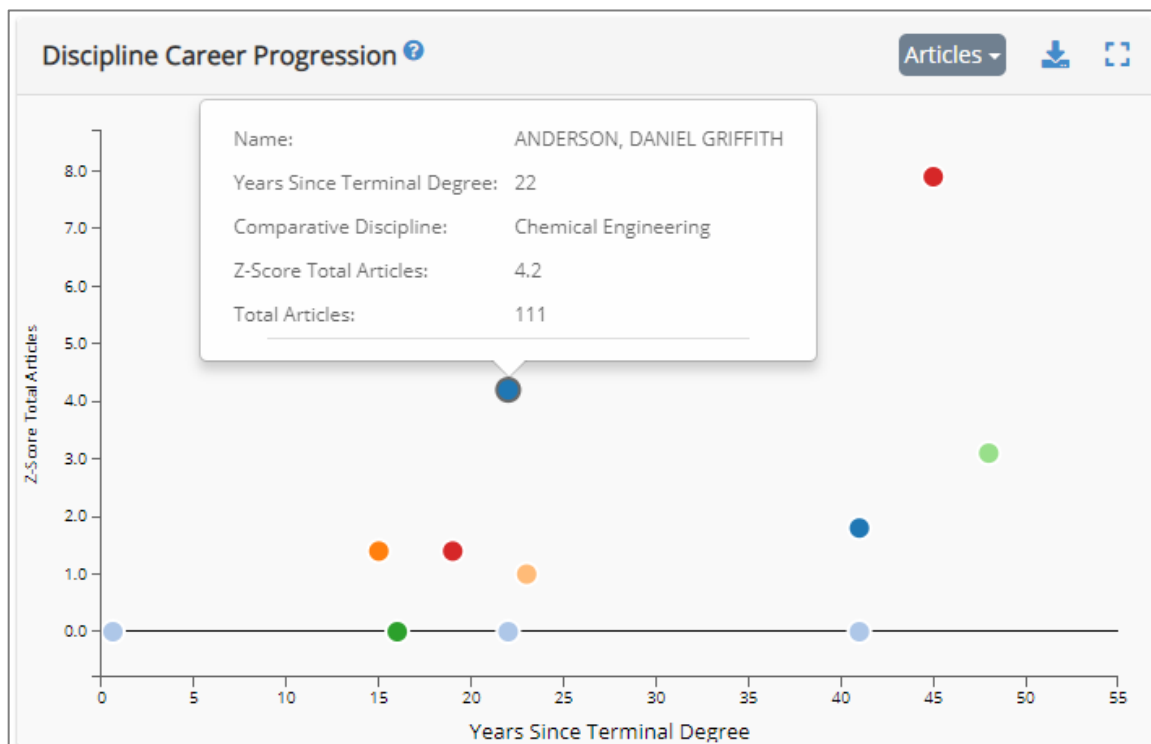
Users can view the aggregate activity of the new team by clicking the View Analysis prompt in the lower right-hand corner of the Project space:  .

Select researchers to add to a team by dragging and dropping their row from the results table into the Project box below. Once you have added two or more team members to the project, a team analysis may be conducted.

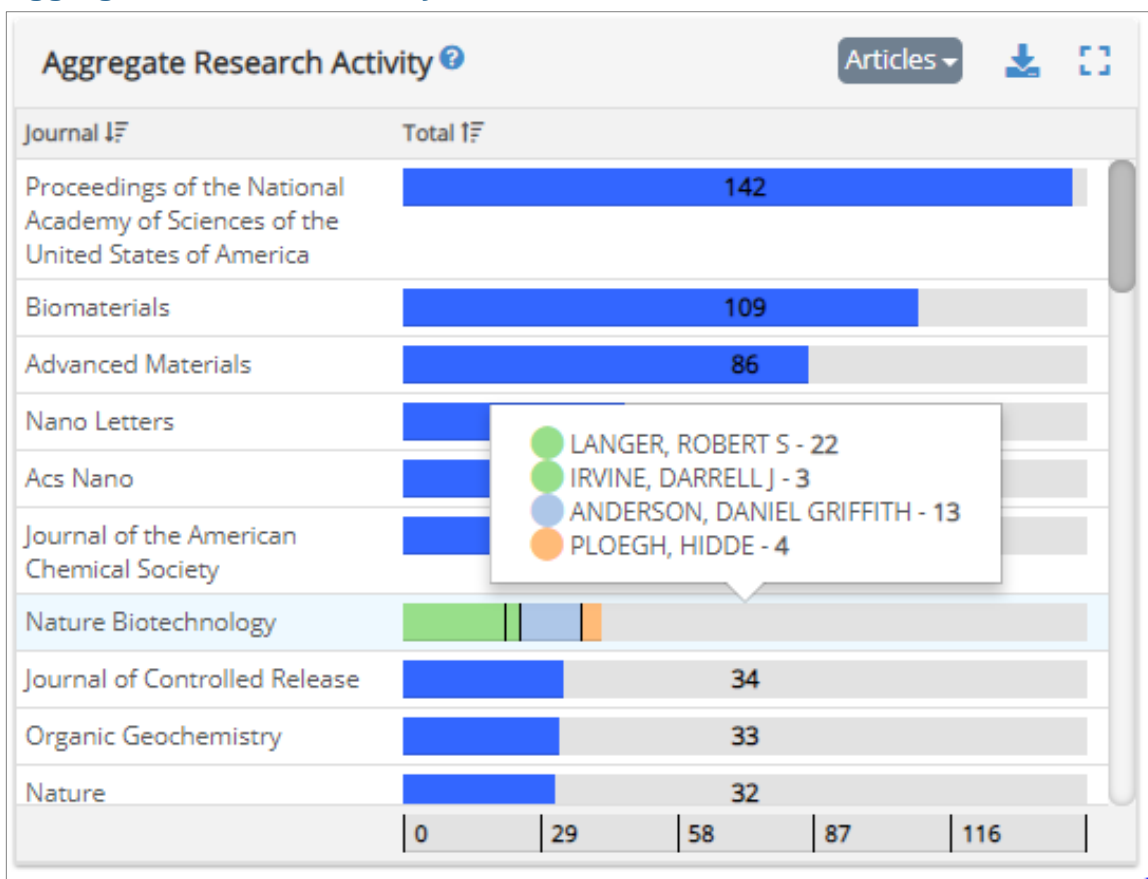
The Team Analysis screen provides users with four separate displays to view individual and aggregate contributions to the team; career progression, intra-team collaborations and expertise intersection.

Discipline Career Progression

The Team Analysis Discipline Career Progression chart demonstrates each team member's average trend in research activity relative to their own discipline. The progression is displayed per the selected variable chosen from the dropdown menu on the right. Dots represent team members and are color coded by discipline. The Y-axis represents the score for the variable and the X-axis represents years since terminal degree. Hovering on a dot provides the team member's name, years since terminal degree, comparative discipline, and information relating to the selected variable. Note that book chapters, clinical trials, and patents do not appear in this section as they have not yet been incorporated into comparative data.

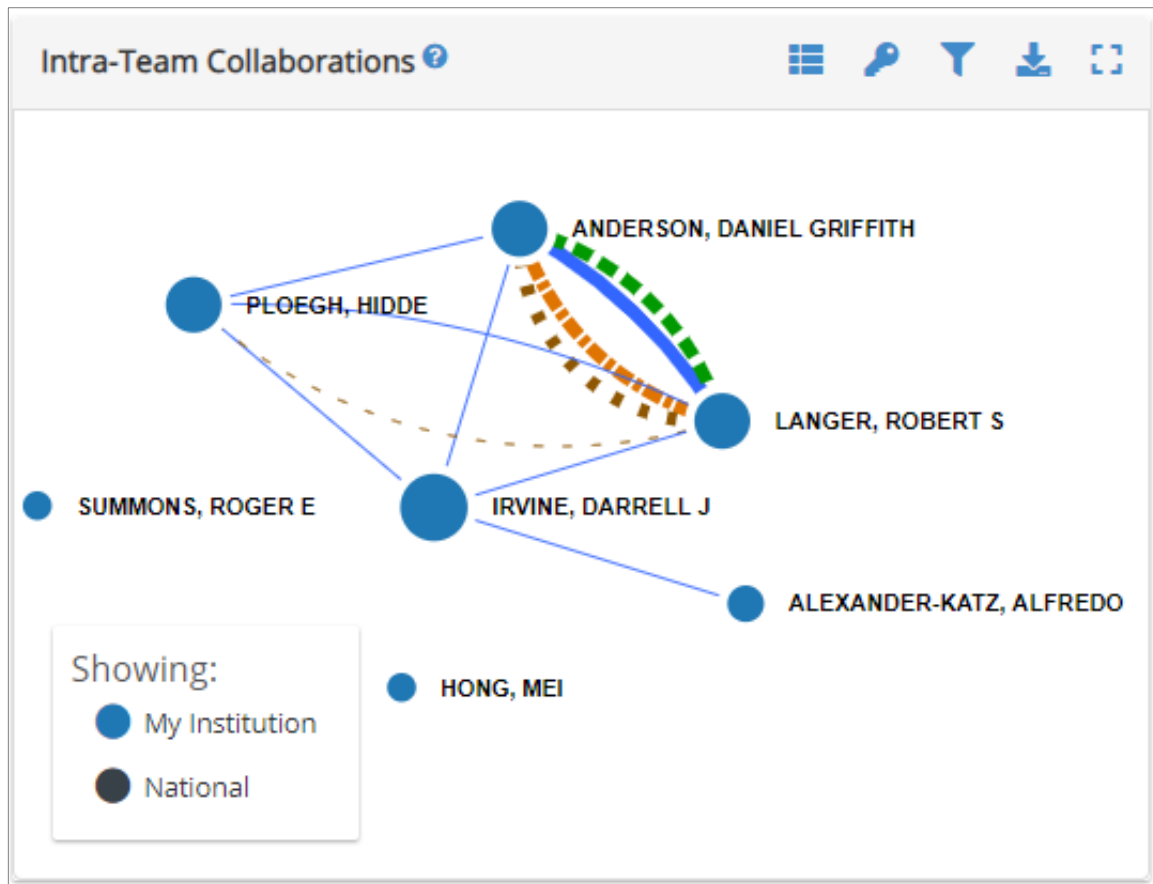


Aggregate Research Activity



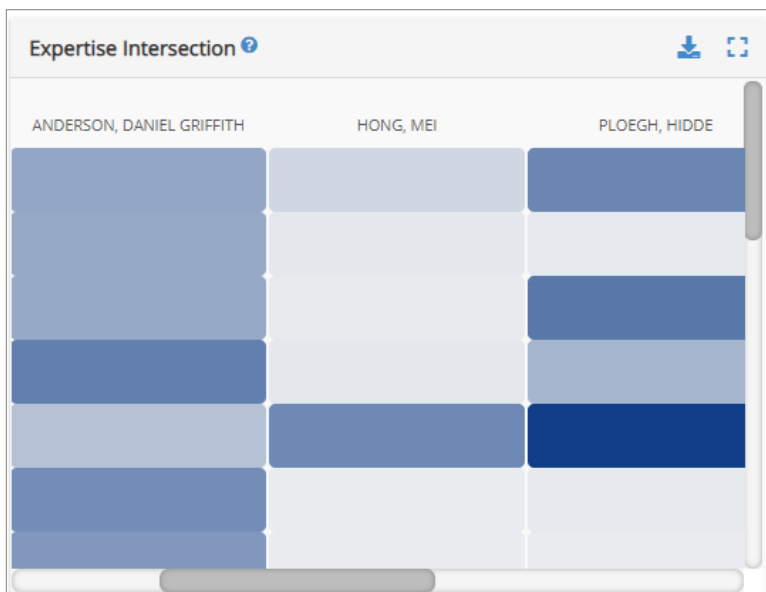
This section displays the team’s aggregated research activity for articles, awards, books, book chapters, clinical trials, citations, grants, grant dollars, and patents. Hovering over a bar displays the individual contributions of each team member. Bars are color-coded by team member discipline (as indicated in the team roster in the top-left of the analysis screen).

Intra-Team Collaboration



This section displays previous collaborations among members of the team. The size of a team member's dot indicates that person's number of distinct collaborators, while the color of the dot indicates the institution affiliation ("My Institution", "Selected Schools", or "National").

Expertise Intersection



The Expertise Intersection displays the shared occurrence of key research terms in the publications of the team members. Darker cells indicate a higher number of occurrences of the word in the row for the team member in the column. Hovering over a cell will show the total number of occurrences for the specific faculty member, the highest number of occurrences among the team, and the total occurrences for the entire team.

Funding Opportunities

Team Analysis Funding presents a tabbed view of “Suggested” and “Project Funding.”

Project Funding contains funding opportunities that have been added to the Project by the user.

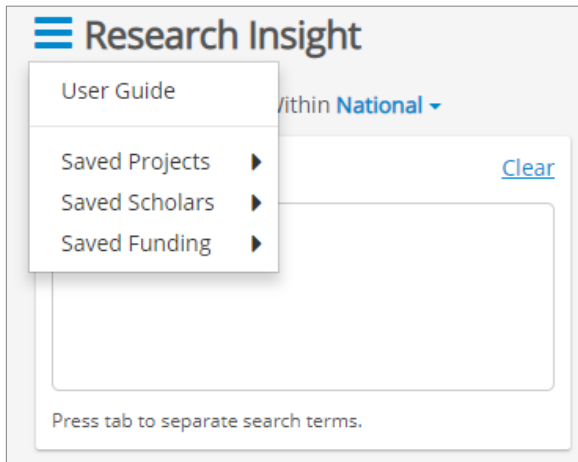
Suggested Funding contains funding opportunities targeted at the overall research of the Project Scholars. Each opportunity can be added to the Project Funding. Items in Project Funding will not appear in the Suggested list.

New Project		SUGGESTED			PROJECT FUNDING		
Scholars <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ALEXANDER-KATZ, ALFREDO <input checked="" type="checkbox"/> ANDERSON, DANIEL GRIFFITH <input checked="" type="checkbox"/> HONG, MEI <input checked="" type="checkbox"/> PLOEGH, HIDDE <input checked="" type="checkbox"/> SUMMONS, ROGER E <input checked="" type="checkbox"/> IRVINE, DARRELL J <input checked="" type="checkbox"/> LANGER, ROBERT S 		<input type="button" value="Filter by Criteria"/> <input type="button" value="Download"/>			<input type="text" value="Search within results"/>		
Title/Sponsor #	Last Deadline	Amount					
Intercellular Signaling and Functional Nanomaterials at the Abiotic/Biotic interface <i>NRL, NRC Research Associateship Programs RAP</i>	11/1/19	Not Available	Add to Project			<input type="checkbox"/>	
Processing and Presentation of Non-Conventional MHC Ligands (R01 Clinical Trial Not Allowed) <i>NIH, NIAID</i>	1/7/22	Not Available	Add to Project			<input type="checkbox"/>	
Processing and Presentation of Non-Conventional MHC Ligands (R21 Clinical Trial Not Allowed) <i>NIH, NIAID</i>	1/7/22	Not Available	Add to Project			<input type="checkbox"/>	
Platform Delivery Technologies for Nucleic Acid Therapeutics (R43/R44) <i>NIH, NIBIB, NIAID, NCATS</i>	9/5/19	Not Available	Add to Project			<input type="checkbox"/>	
Platform Delivery Technologies for Nucleic Acid Therapeutics (R41/R42) <i>NIH, NIAID, NCATS</i>	9/5/19	Not Available	Add to Project			<input type="checkbox"/>	
Adjuvant and Antigen Research <i>NRC Research Associateship Programs RAP, MRMCM The U.S. Army Medical Research and Materiel Command</i>	11/1/19	Not Available	Add to Project			<input type="checkbox"/>	
Neutron Reflectometry <i>NIST, NRC Research Associateship Programs RAP</i>	8/1/19	Not Available	Add to Project			<input type="checkbox"/>	
Enhanced Raman Spectroscopy of Biological Molecules <i>NIST, NRC Research Associateship Programs RAP</i>	8/1/19	Not Available	Add to Project			<input type="checkbox"/>	
Novel Imaging Strategies for Nanomedicine <i>NIST, NRC Research Associateship Programs RAP</i>	8/1/19	Not Available	Add to Project			<input type="checkbox"/>	
Using Small Molecules and Molecular Genetics to Identify Novel Targets and Mechanisms Contributing to Tumor Immune Evasion (R01) <i>NIH, NCI</i>	9/7/20	Not Available	Add to Project			<input type="checkbox"/>	
Novel Multifunctional Polymeric Materials for Military Applications	11/1/19	Not Available	Add to Project			<input type="checkbox"/>	

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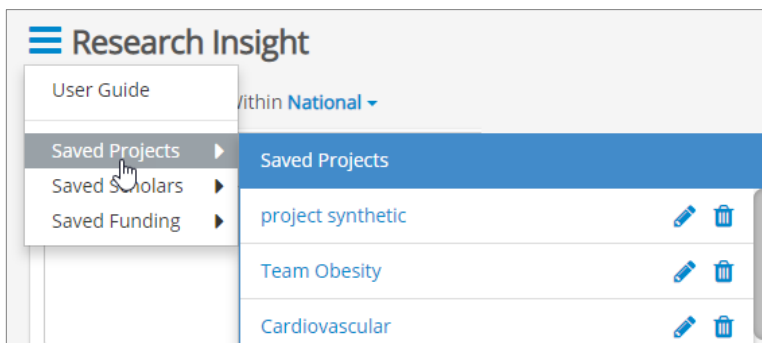
Menu

The main Research Insight menu is accessed by clicking the three-lined icon to the left of the Research Insight title.



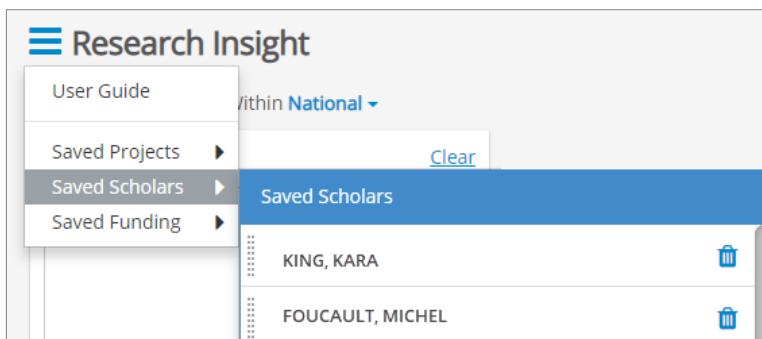
Once clicked, the menu lists the following options:

Saved Projects



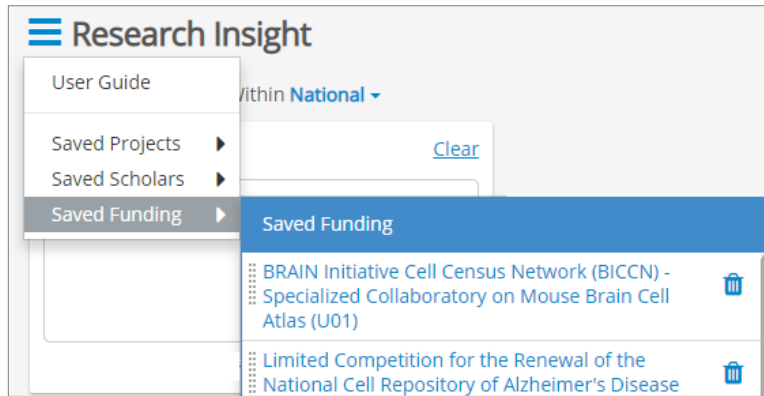
This section displays a list of previously saved projects. Projects may be loaded or deleted, and project titles may be edited from this menu.

Saved Scholars



This section displays a list of previously saved scholars. From this menu, users may drag and drop saved scholars into the current portfolio and saved scholars may be removed from the saved scholar list.

Saved Funding



This section displays a list of previously saved funding opportunities. From this menu, users may drag and drop saved funding opportunities into the current portfolio and saved opportunities may be removed from the saved funding opportunity list.