

Technology Trends in Research Management, Showcasing Outputs, & Collaboration

# ***Enriching the lives of young data: Examples with Researcher Profiles and ORCID records***

June 2, 2015

Ashlea Higgs

Managing Director



more perspectives,  
better decisions



ÜberResearch helps organizations  
better understand and act on their portfolios,  
looking internally and comparing globally.

[www.uberresearch.com](http://www.uberresearch.com)  
[@uberresearch](https://twitter.com/uberresearch)  
[ashlea@uberresearch.com](mailto:ashlea@uberresearch.com)

**Context:** who we serve, what we do

**Showcase:** example enrichment

# Our context: who we serve, what we do



**NHS**  
*National Institute for  
Health Research*



**wellcome**trust



National Heart, Lung,  
and Blood Institute



**World Health  
Organization**



National Institutes of Health  
*Office of the Director, Executive Office*



# About ÜberResearch

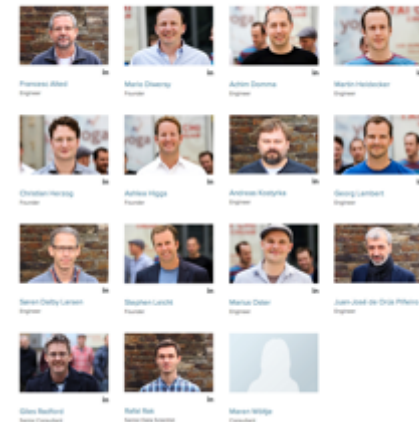
## About us

- Team's 10+ years experience delivering solutions and services for funding and research institutions
- More than 20 development partners, and clients globally, from smallest non-profits to large government agencies
- Active member of    
  - Example: *UberWizard for ORCID*
- Portfolio company of Digital Science

Experienced,  
international team

### ÜberResearch Team

The ÜberResearch team has worked for nearly ten years together in various settings – always focusing successfully on how to build applications and tools supporting research teams and organisations in the science world.



Part of the Digital  
Science family



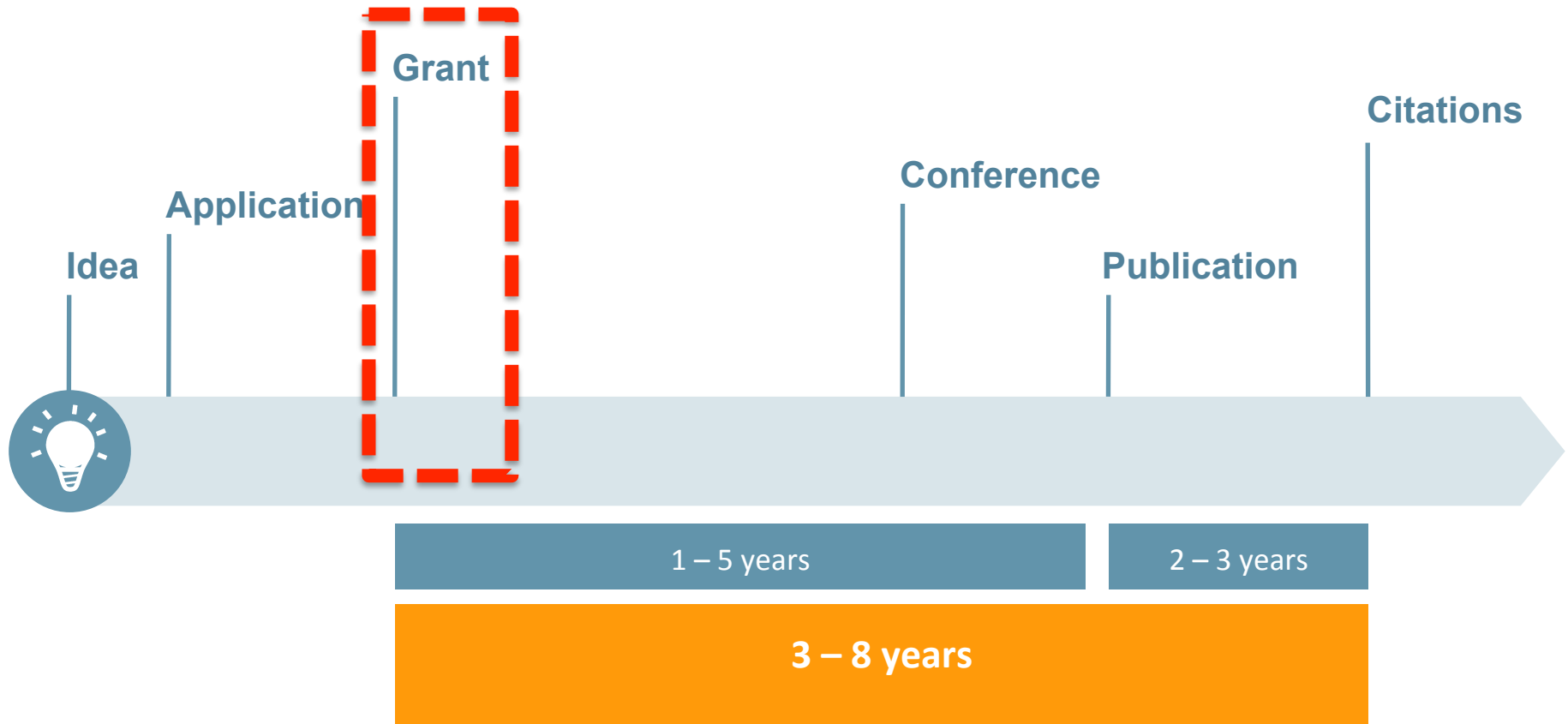
# Portfolio management + Peer review

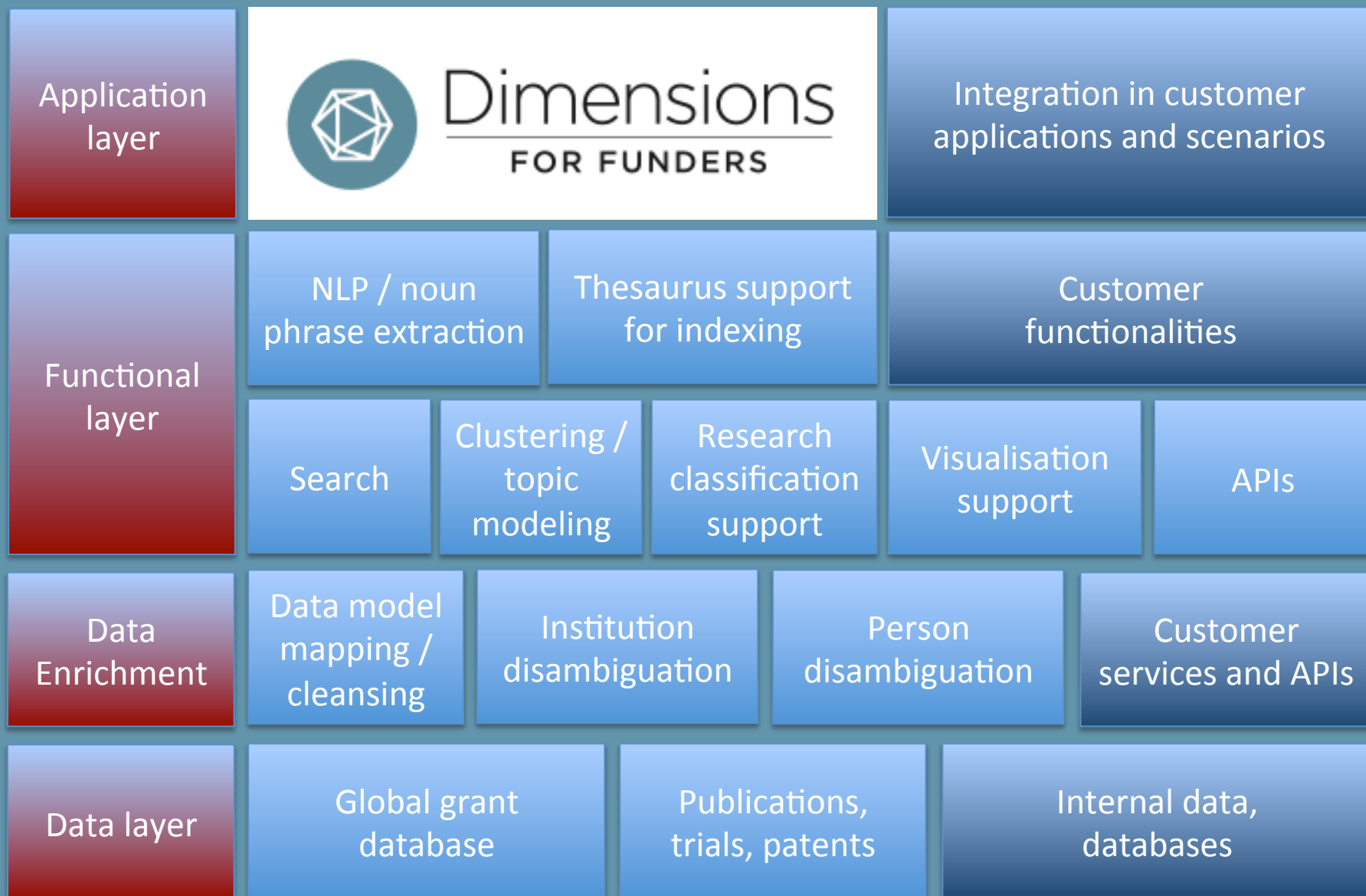
# Research management + Finding researchers

# Global data + Tools

# Transmission timeline

From idea to impact ...













# Find reviewers / experts / researchers

Reviewer Candidates

Location: US & Canada ▾

Based on publications from the last: 5 years ▾

Add to committee	Score	Name Organization, Country	Funded From - Through	Publications Related / Total	Possible conflict Co-Authors Organizations		Email
<input type="checkbox"/>	<div></div>	<b>Ralph H Hruban</b> Johns Hopkins University	1991 - 2014	67 / 426	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Andrew T Parsa</b> Northwestern University	2004 - 2014	66 / 169	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Robert M Hoffman</b> AntiCancer (United States)	1993 - 2014	54 / 297	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Gordon B Mills</b> University of Texas MD Anderson Cancer Center	1994 - 2014	63 / 402	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Annikka Weissferdt</b> University of Texas MD Anderson Cancer Center	1999 - 2014	38 / 50	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Jonathan I Epstein</b> Johns Hopkins University	1988 - 2014	52 / 370	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Anil K Sood</b> University of Texas MD Anderson Cancer Center	1996 - 2014	56 / 299	0	no	 <a href="#">details</a>
<input type="checkbox"/>	<div></div>	<b>Fazlul H Sarkar</b>	1990 - 2014	53 / 425	0	no	 <a href="#">details</a>

# Build panels and committees

Account for fit,  
scientific  
coverage,  
conflicts,  
workload.

Disambiguation  
across grants and  
publications.

Find people:  
Experts, authors,  
editors, panelists,  
reviewers.

The screenshot displays the 'Dimensions for Funders' Workflow interface, specifically the 'Committee Builder' tool. The workspace is titled 'Neuroblastoma + Therapy'. The interface includes a sidebar with navigation options like 'Discover', 'Categorize', 'Analyze', and 'Workflow'. The main area shows a list of potential reviewers with their names, organizations, and publication statistics. A table at the bottom lists the following reviewers:

Add to committee	Name	Published	Publications	Projects	
<input checked="" type="checkbox"/>	<b>John M Maris</b> Children's Hospital of Philadelphia	1995 - 2014	204	6	<a href="#">details</a>
<input type="checkbox"/>	<b>Susan L Cohn</b> University of Chicago	1988 - 2014	127	6	<a href="#">details</a>
<input type="checkbox"/>	<b>Wendy B London</b> Harvard University	1999 - 2014	103	0	<a href="#">details</a>
<input type="checkbox"/>	<b>Gianpietro Dotti</b> Baylor College of Medicine	1998 - 2014	97	2	<a href="#">details</a>
<input type="checkbox"/>	<b>Katherine K Matthay</b> University of Southern California	1989 - 2014	159	3	<a href="#">details</a>
<input type="checkbox"/>	<b>Nai-Kong V Cheung</b>	1984 - 2014	233	8	<a href="#">details</a>



# Checking for scientific novelty, duplicative funding

## Overlap check for

### Novel differentiating therapies for high-risk neuroblastoma




Applicant  
Eveline Barbieri, Baylor College of Medicine

 Hide Details

#### Abstract

Neuroblastoma arises from the embryonal neural crest secondary to a block in differentiation and long-term survival inversely correlates with the degree of neuronal differentiation. Treatment with differentiation agents has modestly improved survival. However, drug resistance and related toxicity currently limit the efficacy of this approach. We have recently demonstrated a novel function for the epigenetic regulator CHAF1A (Chromatin Assembly Factor-1A) in opposing neuroblastoma differentiation. High expression of CHAF1A strongly correlates with poor prognosis in large independent clinical cohorts and loss-of-function drives neuronal differentiation in vitro and in vivo. Transcriptome analysis upon CHAF1A silencing reveals repression of oncogenic signaling pathways and a normalization of glycolytic metabolism. Our findings support the hypothesis that CHAF1A expression restricts neural crest differentiation and contributes to the pathogenesis of high-risk neuroblastoma via metabolic reprogramming. In this proposal we will: a) Characterize the metabolic shift induced by CHAF1A aberrant expression, and b) Determine the impact of targeting glycolysis on neuroblastoma differentiation and sensitivity to current differentiating therapies. As specific inhibitors of glycolysis are developed, the ability to pharmacologically reverse the effects of CHAF1A over-expression could represent a novel therapeutic approach to drive differentiation of this aggressive pediatric malignancy.

## Overlapping projects

Similarity	Project	Funding Amount	
		Period	
	<b>Novel differentiating therapies for high-risk neuroblastoma.</b> St. Baldrick's Foundation to Eveline Barbieri	USD 2015 - 2017	<b>291,636</b>
	<b>HOXC9-Induced Differentiation in Neuroblastoma Development</b> Congressionally Directed Medical Research Programs to Hanfei Ding	USD 2012 - 2015	<b>1,125,000</b>
	<b>Phenotypic Plasticity in Human Neuroblastoma</b> NATIONAL CANCER INSTITUTE to ROBERT A ROSS	USD 1998 - 2009	<b>1,447,380</b>
	<b>Epigenetic characterization of neuroblastoma</b> St. Baldrick's Foundation to Michael D. Hogarty, Hua-Ying Fan	USD 2013 - 2014	<b>110,000</b>
	<b>Identifying microRNAs that Regulate Neuroblastoma Cell Differentiation</b> Congressionally Directed Medical Research Programs to Liqin Du	USD 2013 - 2015	<b>186,828</b>

# How do we compare? Where are gaps?

## FUNDER

What should we be funding?

Understand other funders /  
researcher populations activities  
and portfolios

## RESEARCH ORGANIZATION

What should we invest in?

Understand the portfolio of a  
collaborating / competing /  
funding organization

## Many uses.

**über**  
RESEARCH

a portfolio company of  
**DIGITAL**  
science

Confidential / Proprietary

ons  
ERS

FAVORITES

h the last 10

1,236

1,566

506

89

85

81

73

525

255

194

82

51

Discover

Categorize

Analyze

Workflow

Support | FAQ | ashlea@uberresearch.com

Keyword search | Abstract search

Save as category

★ Save as favorite

Export: CSV

food water energy

Projects

Funders

Researchers

Organizations

Places

Categories

Results | Visualizations

1,236  
Projects

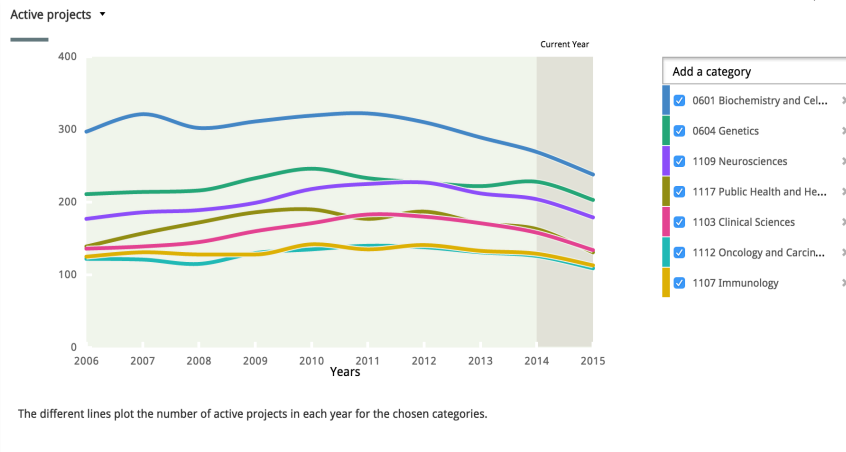
$\Sigma$   
\$ 685.0 M  
Aggregated funding amount

$\bar{x}$   
\$ 554 K  
Average funding amount

Sort by: Relevance

Project title	Funding Amount		
Funder, Principal investigator	From	-	Through
IMPROVING SUSTAINABILITY OF FOOD PROCESSING			
National Institute of Food and Agriculture to D R HELDMAN	2013	-	2018
ECONOMIC AND POLICY IMPLICATIONS OF WATER CONSERVATION AND RENEWABLE ENERGY ISSUES			
National Institute of Food and Agriculture to RO LACEWELL	2012	-	2017
Nanoscale control of energy and matter for future energy-efficient technologies	AUD		640,833

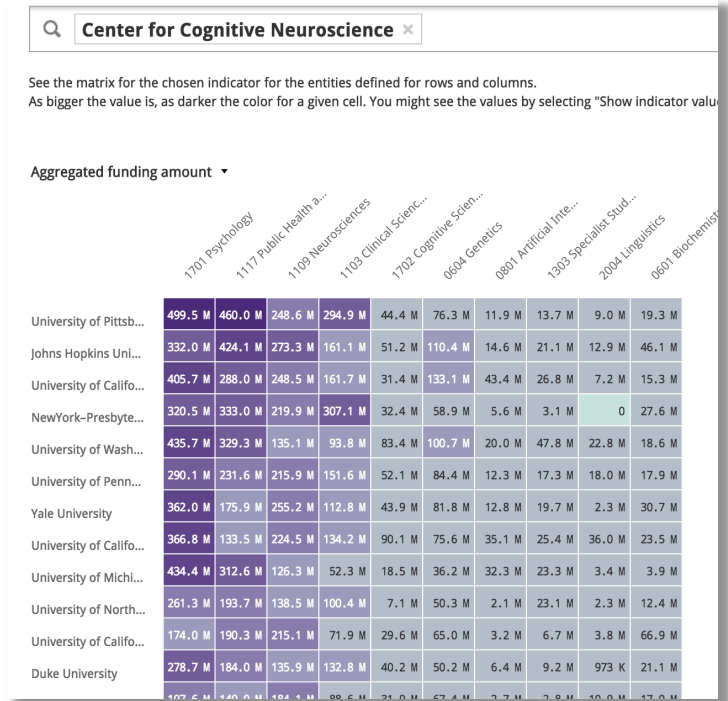
# Penn by funder and by topic



	Neurosciences	Biotechnology	Aging	Bioengineering	Cardiovascular	Mental Health	Lung	Human Genome	Digestive Diseases	Diagnostic Radiology
NHLBI	98.6 M	Neurosciences	1 M	370.7 M	13.7 M	288.6 M	84.5 M	14.5 M	57.3 M	
NCI	25.2 M	104.5 M	75.5 M	59.4 M	2.8 M	7.0 M	168.9 M	45.7 M	101.1 M	59.0 M
NIDDK	42.9 M	133.1 M	53.5 M	7.8 M	124.5 M	6.7 M	20.9 M	56.8 M	156.8 M	48.5 M
NIMH	227.9 M	43.5 M	28.7 M	12.8 M	10.7 M	369.2 M	0	50.5 M	0	38.7 M
NIA	168.2 M	26.1 M	289.4 M	28.0 M	24.0 M	11.9 M	2.7 M	66.2 M	1.1 M	16.2 M
NIAID	33.6 M	194.8 M	2.3 M	2.2 M	1.7 M	20.9 M	34.9 M	8.9 M	89.3 M	1.0 M
NINDS	306.0 M	57.9 M	48.1 M	57.4 M	14.3 M	36.3 M	5.8 M	15.6 M	3.3 M	34.6 M
NIGMS	116.0 M	63.3 M	21.0 M	57.3 M	21.4 M	4.8 M	8.7 M	24.9 M	13.3 M	13.4 M
NEI	157.4 M	47.7 M	85.3 M	21.8 M	0	238 K	0	11.4 M	6.0 M	18.5 M
NIDA	162.5 M	2.2 M	2.9 M	7.0 M	1.0 M	51.6 M	559 K	5.3 M	3.5 M	15.3 M
NIAMS	6.2 M	36.3 M	19.2 M	49.2 M	22.6 M	784 K	4.4 M	4.0 M	3.7 M	22.0 M
NSF-MPS	300 K	48.0 M	0	109.1 M	0	0	0	0	545 K	3.1 M
NICHD	30.5 M	37.3 M	3.8 M	4.4 M	5.5 M	24.1 M	1.9 M	19.9 M	7.7 M	4.0 M
NIBIB	13.2 M	19.6 M	11.1 M	66.7 M	13.4 M	2.6 M	10.1 M	389 K	4.0 M	52.9 M
NCRR	6.4 M	26.9 M	18.5 M	38.5 M	4.2 M	1.5 M	1.3 M	11.6 M	7.0 M	23.5 M
CDMRP	9.9 M	5.9 M	9.0 M	11.8 M	0	14.5 M	1.6 M	2.0 M	2.7 M	4.8 M
NINR	9.2 M	0	22.5 M	3.7 M	12.2 M	14.5 M	1.4 M	0	1.1 M	0
NIDCD	33.6 M	11.2 M	2.4 M	5.5 M	0	6.0 M	0	0	0	0
NSF-ENG	1.4 M	9.2 M	865 K	36.4 M	0	0	0	400 K	247 K	504 K
NIAAA	21.0 M	1.5 M	1.5 M	0	1.8 M	22.1 M	1.3 M	5.4 M	4.6 M	0
NHGRI	0	4.1 M	0	5.5 M	8.6 M	440 K	0	32.9 M	0	0
NSF-CISE	1.0 M	0	949 K	31.6 M	1.1 M	0	0	0	0	329 K
NIDCR	1.2 M	14.5 M	4.9 M	6.7 M	0	0	0	2.1 M	8.7 M	633 K
OD	5.0 M	6.5 M	2.4 M	7.1 M	256 K	4.2 M	1.0 M	10.6 M	242 K	4.3 M
NIEHS	1.9 M	5.4 M	0	0	0	3.3 M	7.4 M	11.1 M	0	2.2 M
NSF-BIO	1.7 M	8.2 M	0	5.6 M	280 K	260 K	0	600 K	320 K	539 K
NCCIH	5.2 M	1.0 M	3.9 M	1.2 M	2.8 M	4.9 M	0	0	1.0 M	396 K
CDC	568 K	0	512 K	568 K	1.8 M	8.7 M	979 K	0	0	0
NIMHD	0	0	6.8 M	0	1.5 M	1000 K	0	0	1.5 M	0
AHRQ	0	0	2.0 M	403 K	1.4 M	908 K	498 K	0	1.5 M	0
NSF-SBE	1.8 M	0	811 K	1.9 M	15 K	2.7 M	0	1.3 M	0	1.2 M
NSF-EHR	3.5 M	0	0	1.3 M	0	0	0	0	0	0
NLM	0	0	0	4.1 M	0	0	0	3.3 M	0	0
FIC	421 K	0	1.1 M	0	1000 K	583 K	0	1000 K	0	0
NSF-GEO	0	0	0	944 K	0	0	0	0	0	0
NCATS	0	821 K	0	0	0	0	0	0	821 K	0
FDA	0	0	0	320 K	347 K	0	0	0	727 K	320 K
NIFA	0	0	0	0	0	0	0	0	500 K	0
CIHR	302 K	0	103 K	0	0	101 K	0	0	194 K	0
NSF-OD	0	137 K	0	462 K	0	0	0	0	0	0
CURE	200 K	0	0	250 K	0	0	0	0	0	0
CHN	0	0	0	0	120 K	0	219 K	0	0	0
NSERC	0	0	0	146 K	0	0	0	0	19 K	0
LRA	0	0	0	88 K	0	0	0	0	0	0
NASA	0	0	0	0	0	0	0	0	0	68 K

# Penn Centers & Institutes as a view of funding, and vs. peers

My Category	Projects
Center for Cognitive Neuroscience	54,217
Laboratory for Research on the Structure of Matter	48,667
Center For Public Health Initiatives	48,358
Institute of Neurological Sciences	48,016
Nanotechnology Institute	33,034
Center of Cognitive Neuroscience	30,769
Institute for Regenerative Medicine	19,834
Penn Institute for Urban Research	8,059
Leonard Davis Institute of Health Economics	4,826
Center for Neuroscience and Society	304



# Penn publications by funder and by topic

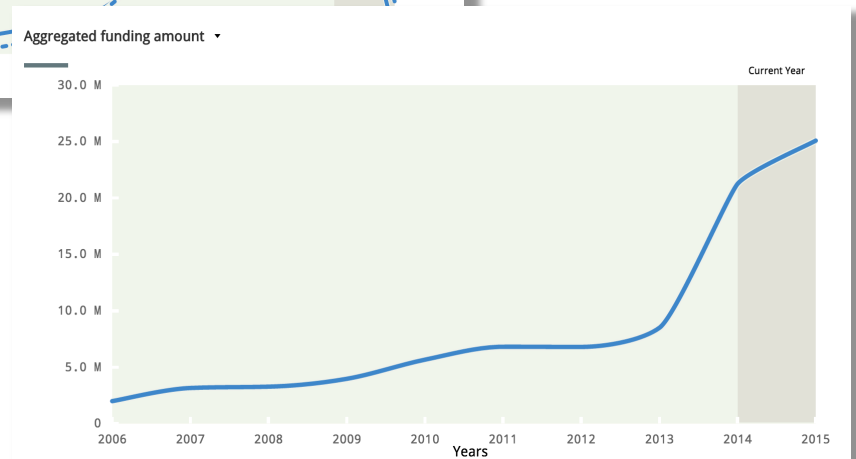
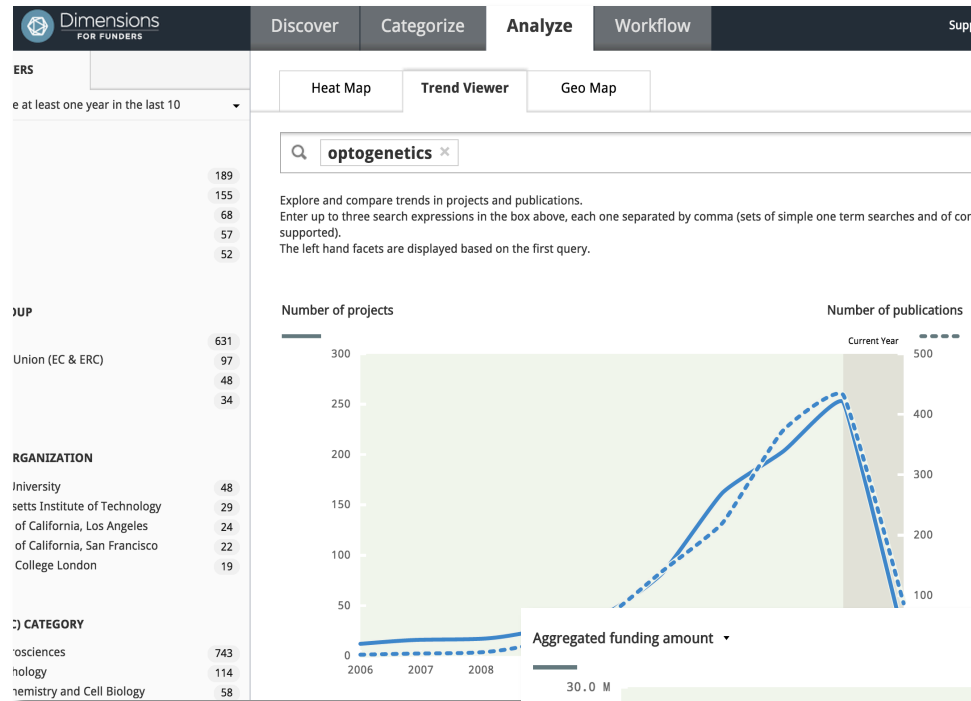
Organization Country	Related Publications
NCI <a href="#">National Cancer Institute</a> United States	2,014
NIGMS <a href="#">National Institute of General Medical Sciences</a> United States	1,756
NHLBI <a href="#">National Heart, Lung, and Blood Institute</a> United States	1,737
NIAID <a href="#">National Institute of Allergy and Infectious Diseases</a> United States	1,259
NIDDK <a href="#">National Institute of Diabetes and Digestive and Kidney Diseases</a> United States	1,216
NIMH <a href="#">National Institute of Mental Health</a> United States	1,078
NINDS <a href="#">National Institute of Neurological Disorders and Stroke</a> United States	1,060
NCRR <a href="#">National Center for Research Resources</a> United States	923
NIA <a href="#">National Institute on Aging</a> United States	865
NICHD <a href="#">National Institute of Child Health and Human Development</a> United States	807
NIAMS <a href="#">National Institute of Arthritis and Musculoskeletal and Skin Diseases</a> United States	638
NEI <a href="#">National Eye Institute</a>	511

FOR (ANZSRC) Category
0601 Biochemistry and Cell Biology
1103 Clinical Sciences
1117 Public Health and Health Services
0604 Genetics
1109 Neurosciences
1107 Immunology
1112 Oncology and Carcinogenesis
1701 Psychology
1102 Cardiorespiratory Medicine and Haematology
1108 Medical Microbiology
0306 Physical Chemistry (Incl. Structural)
1114 Paediatrics and Reproductive Medicine
1110 Nursing
0299 Other Physical Sciences
1113 Ophthalmology and Optometry
0903 Biomedical Engineering
0303 Macromolecular and Materials Chemistry
0305 Organic Chemistry
0912 Materials Engineering
1004 Medical Biotechnology
1111 Nutrition and Dietetics
0605 Microbiology
0302 Inorganic Chemistry
1115 Pharmacology and Pharmaceutical Sciences
1007 Nanotechnology
1116 Medical Physiology
0301 Analytical Chemistry

RCDC Category
Neurosciences
Biotechnology
Bioengineering
Aging
Cardiovascular
Mental Health
Digestive Diseases
Diagnostic Radiology
Nutrition
Heart Disease
Lung
Health Services
Hematology
Eye Disease and Disorders of Vision
Stem Cell Research
Nanotechnology
Obesity
Breast Cancer
Human Genome
Injury (total) Accidents/Adverse Effects
Regenerative Medicine
Depression
Mind and Body
Pain Research

# What is growing?

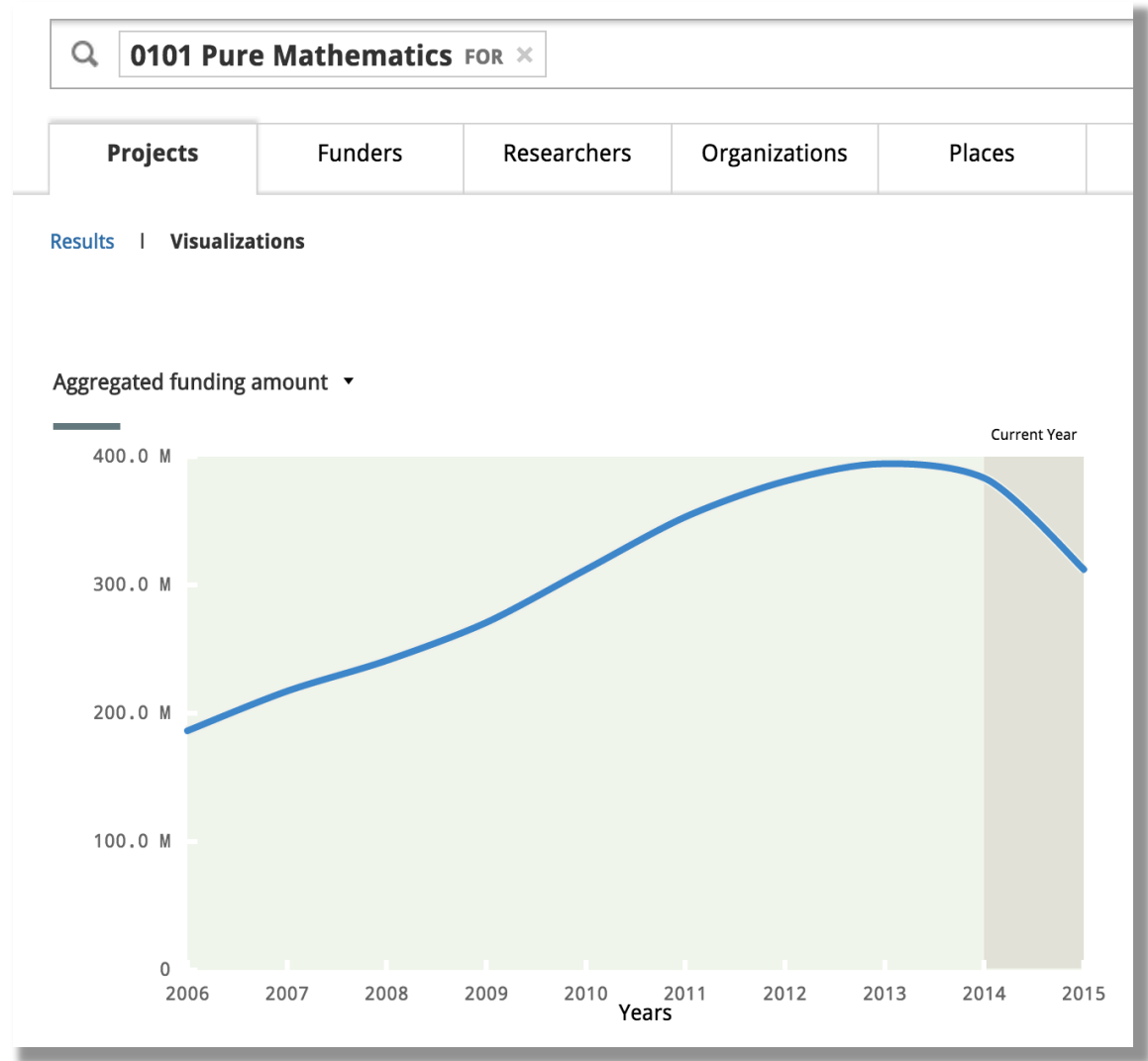
Many uses.



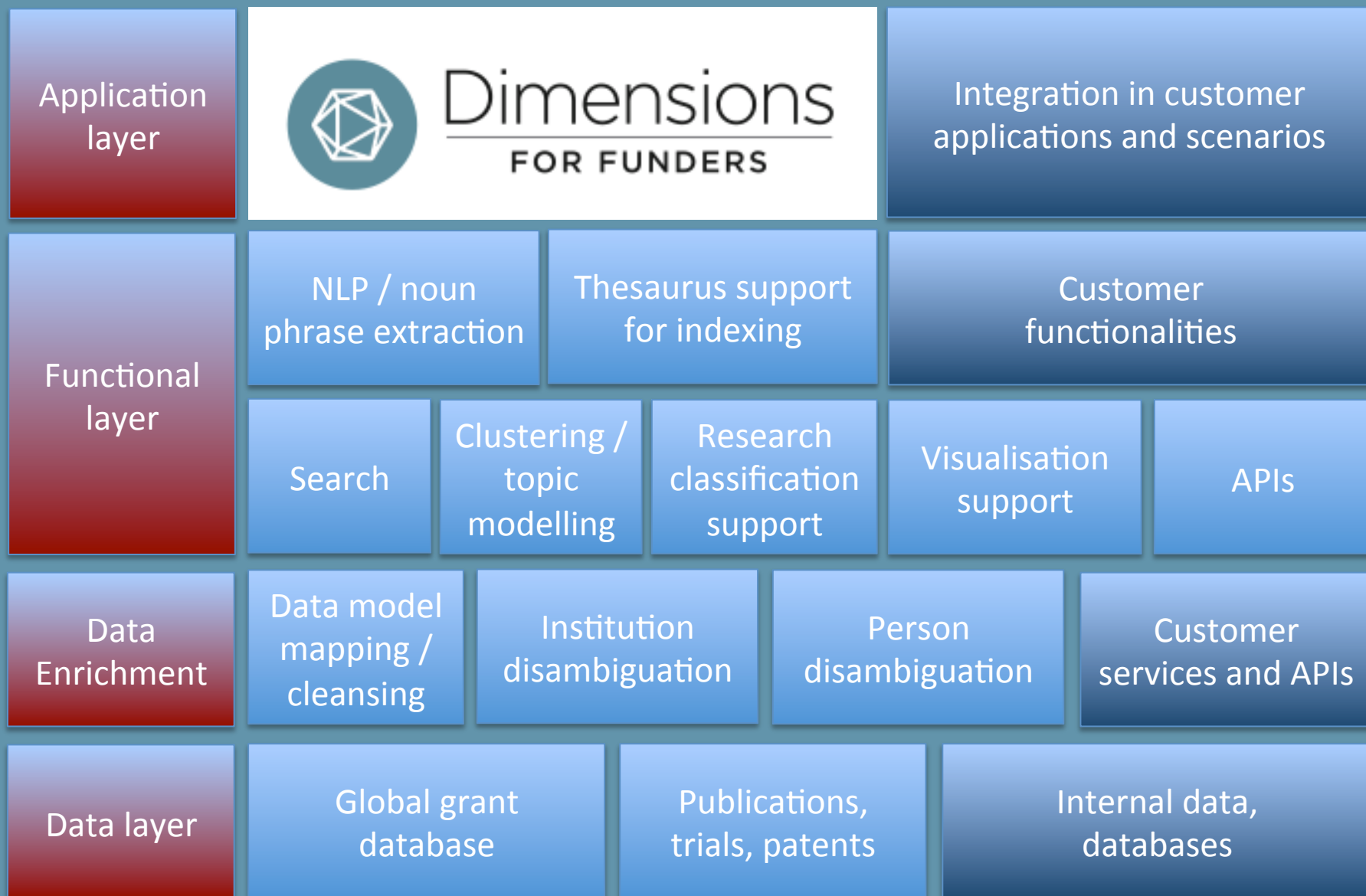


# What is growing?

Pure Mathematics.



# DIMENSIONS API: ENRICHING ELEMENTS, ORCID & MORE



# Dimensions API

- Enrich existing grant records
- Add grant records to people records
- Add funding reference to data/outputs
- Add Article/document level classification
  - Example: Grants and publications coded to FOR system



## Some of the metadata that can be called from the Dimensions API

### Data returned by a Fetch call

Key Name	Description
<u>uberid</u>	The unique identifier of a grant in the Dimensions database
title	Project title (as submitted in the grant application)
abstract	Project abstract (as submitted in the grant application)
start_date	Official date the funding of the project starts (formatted: YYYY-MM-DD).
end_date	Official date the funding of the project ends (formatted: YYYY-DD-DD)
linkout	Web reference to an html representation of the project as it is pre
researchers	org_name_source The name of the organization affiliation of the Principal Investigator (PI), as it is references in the source data
	org_name The normalized name of the organization affiliation of the PI, as it is listed in iDB
funding_amount	Project applica
funding_currency	Alphab amoun
fund_ref_id	org_city PI's organization affiliation's city
	org_state PI's organization <u>affiliation's</u> state
funder_name	org_country PI's organization <u>affiliation's</u> country
	org_country_code ISO 3166 2-letter code of the PI's organization <u>affiliation's</u> country
	pmids List of Pubmed Identifiers of resulting publications generated by this project
	for FOR classification codes assigned to the grant, returned as a list of 4-digit codes and a description ["nnnn description", nnnn description" ...]
	p_grant_id Funder proprietary grant ID

# API: Enriching existing grant records



## Before

A Johnson, #19,  
Lyme Research  
Alliance

## After

The screenshot displays the 'Details' page for a project in the Dimensions FOR FUNDERS system. The project is 'Effective Lyme Disease Diagnostic' by A.T. Charlie Johnson at the University of Pennsylvania, funded by the LRA Lyme Research Alliance. Key metrics shown include a funding period from 2014 to 2015, a funding amount of \$88 K, and 0 resulting publications. The abstract describes a project designed to develop a nano-enabled sensor array for multiplexed detection of Lyme disease biomarkers. Below the abstract, there are sections for 'Similar projects' and 'Categories'. The 'Similar projects' table lists three related grants with their funding amounts and dates. The 'Categories' section lists various research areas including Nanotechnology, Bioengineering, and Lyme Disease.

**Project Details:**

- Project:** Effective Lyme Disease Diagnostic
- Funder:** LRA Lyme Research Alliance
- Researcher:** A.T. Charlie Johnson
- Organization:** University of Pennsylvania
- Project Number:** 19
- Funding Period:** 2014 - 2015
- Funding Amount:** \$ 88 K
- Resulting Publications:** 0

**Abstract:** Project designed to develop nano-enabled sensor array for multiplexed detection of Lyme disease biomarkers via graphene field effect transistors functionalized with antibodies to Borrelia proteins

**Similar projects:**

Project title	Funder, Principal investigator	Funding Amount
Collective Excitations in Advanced Nanostructures	European Commission	EUR 1,003,500
Scalable Assembly of Flexible and Thermally Conductive Graphene Paper	National Science Foundation - Directorate for Engineering to Jie Lian	USD 250,000
CAREER: Fabricating Free-Standing Three-Dimensional Graphene Nanostructures through Functionalization, Folding, and Self-Assembly	National Science Foundation - Directorate for Engineering to Jie Lian	USD 500,000

**Categories:**

- 1007 Nanotechnology
- Bioengineering
- Lyme Disease
- Nanotechnology
- Vector-Borne Diseases

# API: Classifying documents

## Input

The screenshot shows the 'Details' page for a project in the Dimensions for Funders system. The project is 'Effective Lyme Disease Diagnostic' by the 'URA Lyme Research Alliance'. Key metrics displayed include a funding period from September 1, 2014, to December 1, 2015, a funding amount of \$88 K, and 0 resulting publications. The researchers listed are A T Charlie Johnson, and the research organization is the University of Pennsylvania. The project number is 19. An abstract describes the project as developing a nano-enabled sensor array for multiplexed detection of Lyme disease biomarkers. Below the abstract, there is a section for 'Similar projects' with a table listing various funding projects and their amounts.

Project title	Funder, Principal Investigator	Funding Amount
Collective Excitations in Advanced Nanostructures	European Commission	EUR 1,003,500
Scalable Assembly of Flexible and Thermally Conductive Graphene Paper		USD 250,000
Macroscopic Structures for Effective Thermal Management in Electronic Devices	National Science Foundation - Directorate for Engineering to Jie Lian	USD 2015 - 2018
CAREER: Fabricating Free-Standing Three-Dimensional Graphene Nanostructures through Functionalization, Folding, and Self-Assembly	National Science Foundation - Directorate for Engineering to Jie Lian	USD 500,000
		2015 - 2020

## Output

### Categories

1007 Nanotechnology  
Bioengineering  
Lyme Disease  
Nanotechnology  
Vector-Borne Diseases

### System

FOR (ANZSRC)  
  
RCDC  
RCDC  
RCDC  
RCDC



# Example: Nielsen award to a Penn researcher

Dimensions  
FOR FUNDERS

Discover

Categorize

Analyze

Workflow

Details

Support | FAQ | upenn@uberresearch

< Back

Project

Viral mediated IGF-I gene transfer and locomotor training after SCI

Funder: CHN Craig H. Nielsen Foundation

Last 10 years

1 Sep  
30 Aug  
2008 - 2010  
Funding period

\$ 120 K  
Funding amount

0  
Resulting publications

Researchers

Min Liu  
Krista Vandendorpe  
Floyd Thompson

Research Organizations

University of Pennsylvania

Project Number

84004

Abstract

Spinal cord injury (SCI) is a devastating condition that results in persistent motor dysfunction, and often leaves patients debilitated. A SCI that disrupts the connections between the brain and the muscles involved in locomotion severely diminishes an individual's ability to ambulate. Furthermore disruption of the normal neural input to muscles leads to muscle wasting, which has been associated with increased risk for diabetes and cardiovascular disease. Fortunately, the function of the nerve cells and muscles that control movement is not fixed and immutable, but rather displays considerable 'plasticity' (defined as the ability to change). Indeed, even after severe SCI, appropriate induction of plasticity can improve motor function. Accordingly, an important therapeutic strategy after SCI is to promote the ability to enhance and optimize inherent plasticity in the central nervous system and skeletal muscle. In recent years, it has become apparent that a new rehabilitation intervention, repetitive locomotor training, can induce plasticity in the spinal cord, resulting in improved walking and standing. This alternative rehabilitation modality has generated new hope for patients with spinal cord injury. This proposal seeks to further enhance the therapeutic potential of locomotor treadmill training and to elucidate the mechanisms underlying locomotor training induced functional gains. A number of neurotrophic factors have been identified in muscle which are increased with locomotor training or may play a prominent role in neural recovery. One such regulator, insulin growth factor I (IGF-1), is of particular interest as it has been identified as a critical myogenic and neurotrophic factor. We will investigate the therapeutic potential of viral mediated overexpression of insulin-like growth factor I when used in conjunction with locomotor training. Therefore this proposal will test the hypothesis that Viral mediated overexpression of insulin-like growth factor I in skeletal muscle, when applied immediately after spinal cord injury, can enhance the therapeutic effect of locomotor training, promoting both neural plasticity and muscle hypertrophy in rats, compared to non-treated SCI controls. This study is unique in that it investigates the coordination between muscle adaptations and neural plasticity, in an injury and therapeutic animal model that is highly relevant to the clinical situation. Our ultimate goal is to develop the functional gains from experiments on laboratory animals to develop and optimize rehabilitation intervention in humans with spinal cord injury.

Similar projects

Sort by: Start Date

Project title	Funder, Principal Investigator	Funding Amount
		From - Through
Cerebellar circuit mechanisms of coordinated locomotion in mice	European Commission	EUR 96,750 2015 - 2020
Vagal Plasticity after Cord Injury Exacerbates Post-Infarct Cardiac Remodeling	NATIONAL HEART, LUNG, AND BLOOD INSTITUTE to STEPHEN E DICARLO	USD 81,875 2015 - 2019
Restoring Respiratory Motor function with Cell Therapy after Cervical Spinal Cord Injury	OFFICE OF THE DIRECTOR, NATIONAL INSTITUTES OF HEALTH to WARREN JOSEPH ALILAIN	USD 94,163 2015 - 2017
Diet composition and cardiometabolic risk reduction in adults with SCI	EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN	USD 15,093 2015 -

All >

Categories

	System
1109 Neurosciences	FOR (ANZSRC)
1103 Clinical Sciences	FOR (ANZSRC)
1106 Human Movement and Sports ...	FOR (ANZSRC)
Rehabilitation	RCDC
Cardiovascular	RCDC
Injury (total) Accidents/Adverse Effects	RCDC
Regenerative Medicine	RCDC
Injury - Trauma - (Head and Spine)	RCDC
Spinal Cord Injury	RCDC
Musculoskeletal	HRCS
Neurological	HRCS



# Why article-level classification (or...what isn't graphene influencing?)

**PHYSICS & ASTRONOMY**

**A.T. Charlie Johnson**  
Professor  
Director, Nano/Bio Interface Center  
cjohnson@physics.upenn.edu  
DRL 2N13d  
(215) 898-6231  
(215) 898-9325  
Fax: (215) 898-2010  
Website

- Director, Nano/Bio Interface Center (2014-)
- Professor of Physics, University of Pennsylvania (2008-)
- Associate Professor of Physics, University of Pennsylvania
- At University of Pennsylvania since 1994
- National Research Council Postdoctoral Fellow, National Technology (1992-93)
- ESPRIT Postdoctoral Fellow, Delft University of Technology

**EDUCATION:**  
Ph.D, Harvard (1990)  
B.S., Stanford University (1984)

**RESEARCH INTERESTS:**  
Our group is interested in the nanometer-scale transport properties of molecular and super-molecular systems. These systems are of technological (possible future nanoelectronic) and fundamental

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< Back

Project  
**Effective Lyme Disease Diagnostic**  
Funder: LRA Lyme Research Alliance

1 Sep 1 Dec  
**2014 - 2015**  
Funding period

\$ 88 K  
Funding amount

0  
Resulting publications

**Researchers**  
A T Charlie Johnson

**Research Organizations**  
University of Pennsylvania

**Project Number**  
19

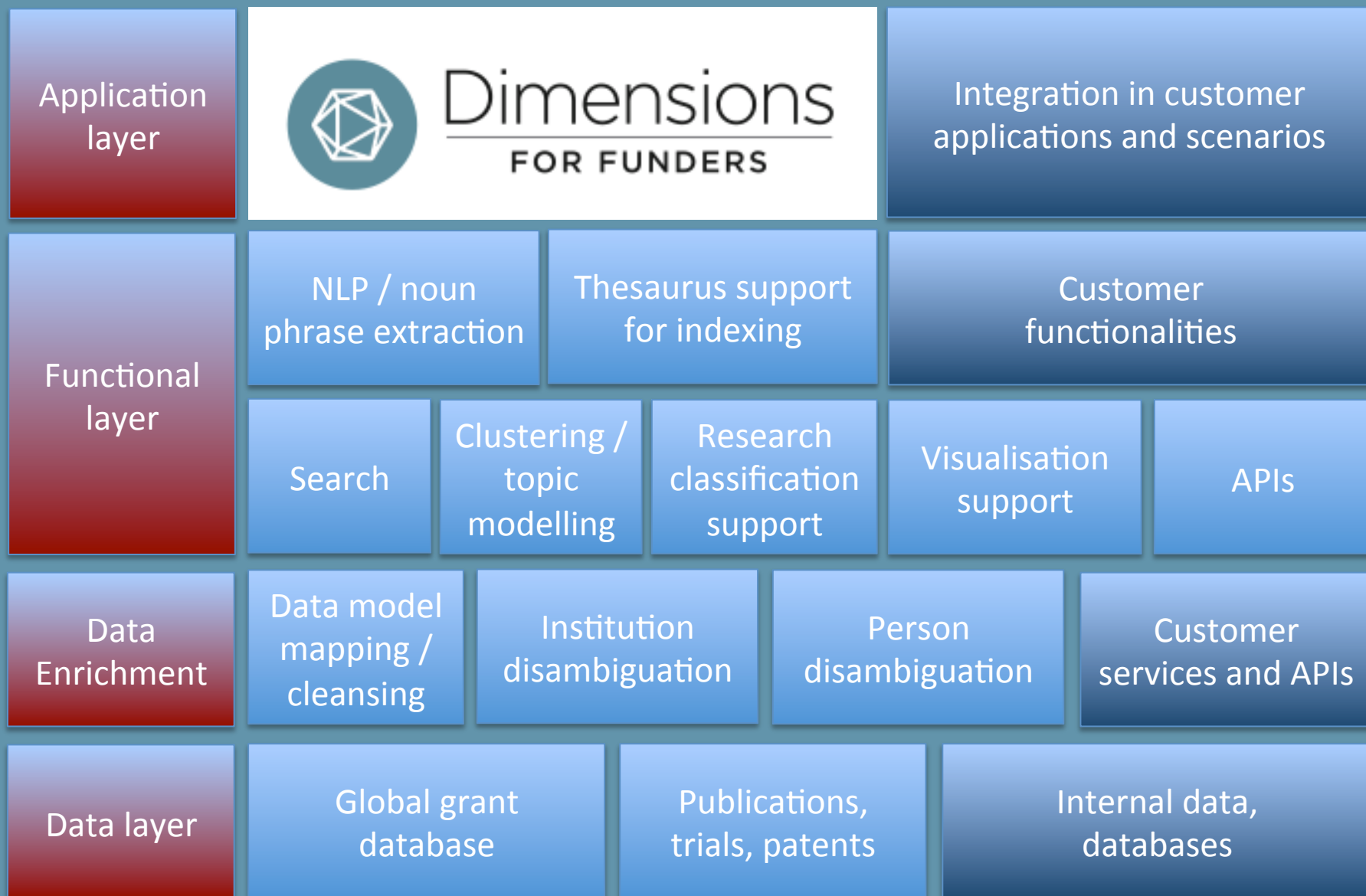
**Abstract**  
Project designed to develop nano-enabled sensor array for multiplexed detection of Lyme disease biomarkers via graphene field effect transistors functionalized with antibodies to Borrelia proteins

**Similar projects**  
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**Categories**

	System
1007 Nanotechnology	FOR (ANZSRC)
Bioengineering	RCDC
Lyme Disease	RCDC
Nanotechnology	RCDC
Vector-Borne Diseases	RCDC

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**Todd J Vision**

ID: <http://orcid.org/0000-0002-4113-2581>

Country: United States

Keywords: plant biology, genome evolution, bioinformatics, scholarly communication

Websites:  
Research group website

Other IDs:  
ISNI: 0000000042272312  
ResearcherID: B-4867-2010  
Scopus Author ID: 6603368605

Education	Employment	Funding
Princeton University (1993 to 1998) MS/PhD	University of North Carolina at Chapel Hill (2007 to present) Associate Professor	ABI Development: Dryad: scalable and sustainable infrastructure for the publication of data: National Science Foundation (2012-03 to 2016-02)
University of Chicago (1989 to 1992) BA	National Evolutionary Synthesis Center (2006 to present) Associate Director for Informatics	COLLABORATIVE RESEARCH: ABI Development: Ontology-enabled reasoning across phenotypes from evolution and model organisms: National Science Foundation (2011-07 to 2015-06)
	University of North Carolina at Chapel Hill (2001 to 2007) Assistant Professor	DataNet Full Proposal: DataNetONE (Observation Network for Earth): National Science Foundation (2009-08 to 2014-07)
	USDA Agricultural Research Service (1999 to 2001) Research scientist	A Digital Repository for Preservation and Sharing of Data Underlying Published Works in Evolutionary Biology: National Science Foundation (2008-09 to 2013-08)
	Cornell University (1998 to 1999) Postdoctoral associate	Systematic Identification of Genome Structural Variation in <i>Mimulus</i> : National Science Foundation (2007-09 to 2008-08)
		Enhancing the GMOD Suite of Genome Annotation and Visualization Tools: National Human Genome Research Institute (2007-09 to 2014-05)
		Linking Evolution to Genomics Using Phenotype Ontologies: National Science Foundation (2007-06 to 2011-09)

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First name  
Randy

Last name  
Schekman

5 grant(s) found, 0 grant(s) selected

- ☐ Select all
- ☐ National Science Foundation  
Mechanism and Control of Eukaryotic Cell Division  
01/15/1977 - 01/31/1981 Randy Schekman -
- ☐ National Science Foundation  
Mechanism and Control of Eukaryotic Cell Division  
02/15/1981 - 04/30/1984 Randy Schekman -
- ☐ National Science Foundation  
Secretory Organelles and Protein Localization in Yeast  
07/01/1984 - 12/31/1987 Randy Schekman -
- ☐ National Institute of General Medical Sciences  
Molecular Studies of Eukaryotic Cell Surface Growth  
07/01/1979 - 06/30/2007 RANDY W. SCHEKMAN -
- ☐ National Institute of General Medical Sciences  
FUNCTION OF CLATHRIN-COATED MEMBRANES  
07/01/1986 - 06/30/1992 RANDY W. SCHEKMAN -



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## 1 Select grants to submit

Name searches are not case sensitive. However, an entry like 'M Smith' will not bring back Mike, Michael etc. Alternatively use the \* function. Mi\* will bring back Mike, Michael etc.

First name  
R\*

17 grant(s) found, 0 grant(s) selected

- ☐ Select all
- ☐ European Research Council  
Genetics of High Cognitive Abilities  
04/01/2012 - 04/01/2017 R Plomin -
- ☐ Wellcome Trust  
Mild mental impairment in children genome scan for allelic association.  
01/01/2005 - 12/31/2006 R Plomin -
- ☐ Wellcome Trust  
Multivariate genome-wide association study of cognitive function  
03/01/2008 - 08/31/2008 R Plomin -
- ☐ National Science Foundation  
Videotape Analysis of Behavioral Development in One-, Two-, and Three-Generational Studies  
05/01/1979 - 10/31/1982 Robert Plomin -
- ☐ Medical Research Council  
Origins of learning difficulties and behavioural problems: from biology to psychology  
10/01/2010 - 09/30/2015 Robert Plomin, Ian Craig -
- ☐ Economic and Social Research Council  
Investigating the genetic, social and neuropsychological influences on brain development  
04/01/2009 - 09/30/2010 Jane Elliott, Robert Plomin, Trevor William Robbins, Barbara Stothard -



Easily import your grants from ÜberResearch into ORCID

## 1 Select grants to submit

7 grant(s) selected. Please review.

- National Science Foundation  
Videotape Analysis of Behavioral Development in One-, Two-, and Three-Generational Studies  
05/01/1979 - 10/31/1982 Robert Plomin -
- European Research Council  
Genetics of High Cognitive Abilities  
04/01/2012 - 04/01/2017 R Plomin -
- Medical Research Council  
Origins of learning difficulties and behavioural problems: from biology to psychology  
10/01/2010 - 09/30/2015 Robert Plomin, Ian Craig -
- Economic and Social Research Council  
Investigating the genetic, social and neuropsychological influences on brain development  
04/01/2009 - 09/30/2010 Jane Elliott, Robert Plomin, Trevor William Robbins, Barbara Stothard -
- National Science Foundation  
Genetic and Environmental Influences on Family Relationships  
07/01/1991 - 06/30/1995 Robert Plomin -
- Wellcome Trust  
Mild mental impairment in children: Using large samples, DNA microarray and a systematic genome scan for allelic association.  
01/01/2005 - 12/31/2006 R Plomin -
- National Heart, Lung, and Blood Institute  
Validating a minimally-invasive assay to study the genomic fingerprint  
08/15/2011 - 07/31/2013 ROBERT PLOMIN, ANDREA DANESE -



Mark A Lemmon

ORCID ID  
orcid.org/0000-0002-3379-5319

Also known as  
Mark A Lemmon

Country  
United States



1,370,195 ORCID IDs and counting. See more...

▼ Employment (1) II Sort

University of Pennsylvania Perelman School of Medicine: Philadelphia, PA, United States  
1996-07 to present | George W. Raiziss Professor and Chair (Biochemistry and Biophysics)  
Source: Mark A Lemmon Created: 2014-06-16

▼ Funding (8) II Sort

Understanding Wnt signaling through Ror and Ryk family receptor tyrosine kinases  
National Institute of General Medical Sciences (Bethesda, United States)  
2013-08 to 2017-04 | Grant  
Grant number: IR01GM107435-01  
Grant number: IR01GM107435-01  
Source: ÜberWizard for ORCID Preferred source

Signaling by growth factor receptors with intracellular pseudokinase domains  
National Institute of General Medical Sciences (Bethesda, United States)  
2012-02 to 2015-11 | Grant  
Grant number: 5R01GM099891-03  
Grant number: 5R01GM099891-03  
Source: ÜberWizard for ORCID Preferred source

Mechanisms of invertebrate EGF receptor inhibition  
National Cancer Institute (Bethesda, United States)  
2007-07 to 2013-05 | Grant  
Grant number: 5R01CA125432-05  
Grant number: 5R01CA125432-05  
Source: ÜberWizard for ORCID Preferred source

Mechanisms of dynamin family GTPases  
National Institute of General Medical Sciences (Bethesda, United States)  
2007-04 to 2012-09 | Grant  
Grant number: 5R01GM078345-04  
Grant number: 5R01GM078345-04  
Grant number: 5R01GM078345-04  
Grant number: 5R01GM078345-04  
Source: ÜberWizard for ORCID Preferred source

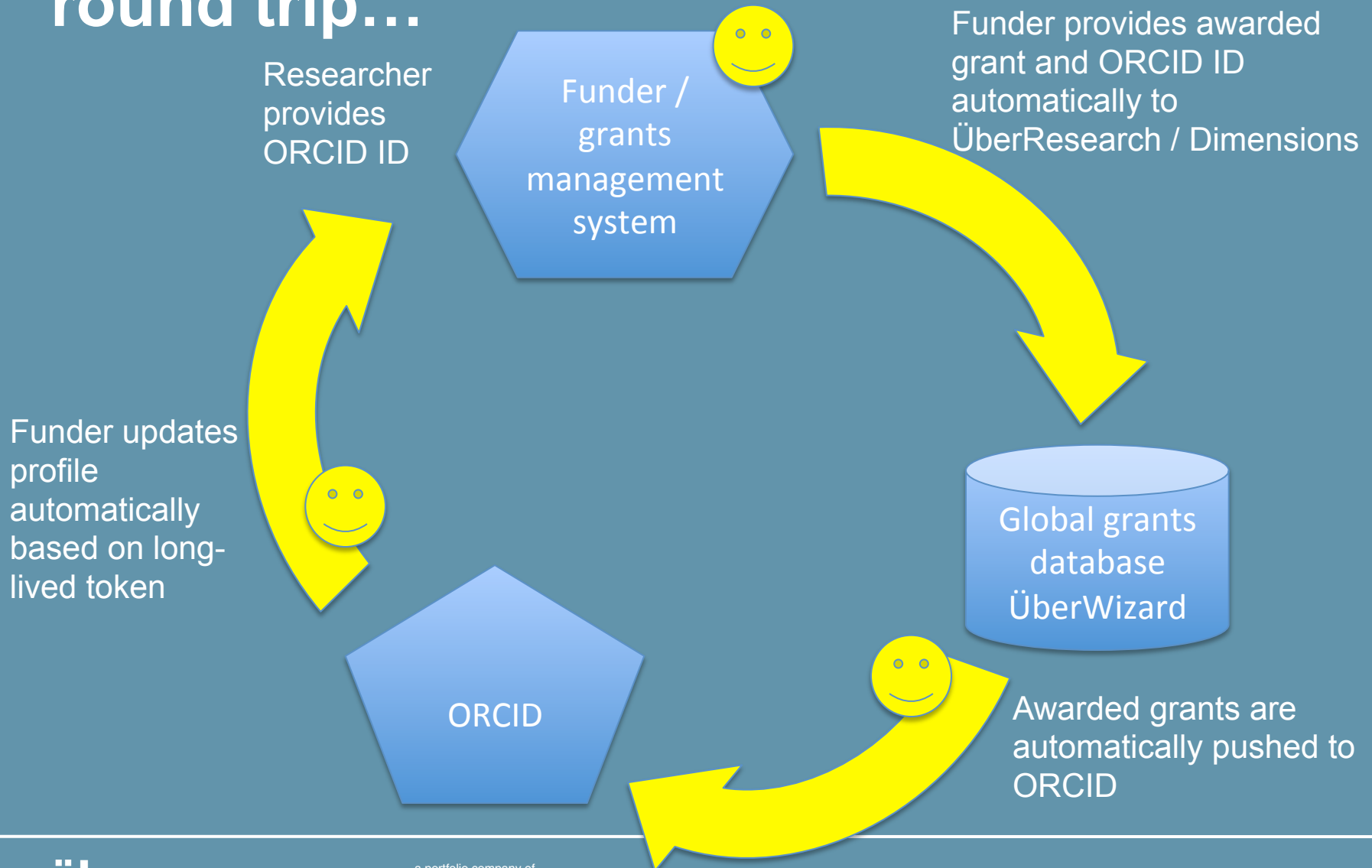


more perspectives,  
better decisions

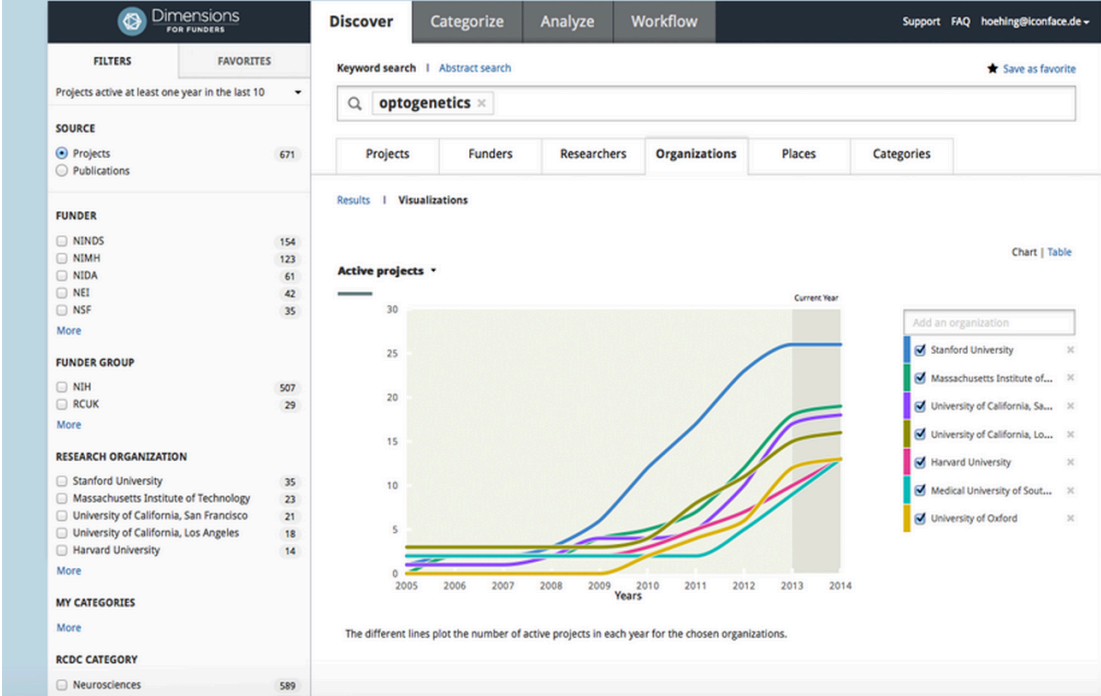


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The screenshot displays the Dimensions for Funders web application. The interface includes a top navigation bar with tabs for Discover, Categorize, Analyze, and Workflow. A search bar on the left allows for keyword searches, with 'optogenetics' entered. Below the search bar, filters for SOURCE (Projects, Publications), FUNDER (NINDS, NIMH, NIDA, NEI, NSF), FUNDER GROUP (NIH, RCUK), RESEARCH ORGANIZATION (Stanford University, Massachusetts Institute of Technology, University of California, San Francisco, University of California, Los Angeles, Harvard University), MY CATEGORIES, and RCDC CATEGORY are visible. The main content area shows a line chart titled 'Active projects' plotting the number of active projects over time (Years) for selected organizations. The chart shows a general upward trend in project activity from 2005 to 2014. A legend on the right lists the organizations: Stanford University, Massachusetts Institute of Technology, University of California, San Francisco, University of California, Los Angeles, Harvard University, Medical University of South Carolina, and University of Oxford.



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