

ACCOUNTABILITY & TRANSPARENCY FOR RESEARCH INTEGRITY VIA COUNTRY REPORT CARDS: U.S.

Zoë H. Hammatt, JD, MPhil Kleinert et al. Symposium 5th WCRI 31 May 2017

o. Search

Topics
Population, Economy

One international migrant (net) every 33 seconds

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U.S. and World Population Clock

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260.580.739 9. Russia

207 252 204 40 1

New!

142,257,519

420 454 200



4. Indonesia

ECONOMY 2016

GDP \$18.56 trillion (largest national economy in nominal terms)

Gross expenditure on R&D \$499 billion

\$69 billion nondefense

GDP per capita: \$57,300 (ranked 8th highest in world)

http://data.worldbank.org/indicator/GB.XPD.RSV

ACADEMIC INSTITUTIONS (2015)

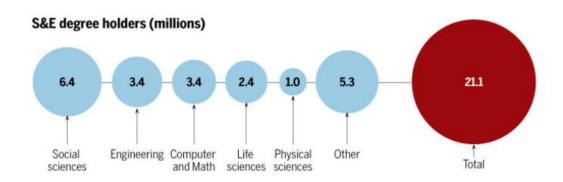
U.S. Postsecondary Institutions by Degree Level and Program Focus

	Institutions		Fall 2014 Enrollment	
	N	%	N	%
Doctoral Universities	335	7%	6,455,622	32%
Master's Colleges and Universities	741	16%	4,422,535	22%
Baccalaureate Colleges	583	13%	999,834	5%
Baccalaureate/Associates	408	9%	1,079,576	5%
Associate's Colleges	1,113	24%	6,524,819	32%
Special Focus: Two-Year	444	10%	204,321	1%
Special Focus: Four Year	1,005	22%	776,979	4%
Tribal Colleges	35	1%	17,929	0.1%
Grand Total	4,664		20,481,615	

Carnegie Classification of Institutions of Higher EducationTM



NUMBER OF RESEARCHERS?





SHARE









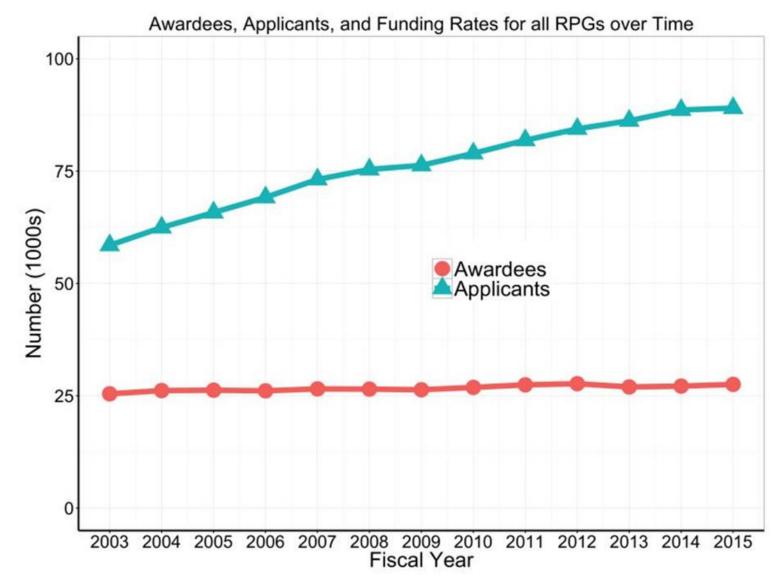


Demonstrators rally for science near the AAAS annual meeting in Boston in February.

Lindzi Wesse

What if every scientist and engineer in the U.S. marched? How many would that be?

By David Malakoff | Apr. 21, 2017, 3:15 PM



https://nexus.od.nih.gov/all/2016/05/31/how-many-researchers

NATIONAL REGULATIONS FOR RESEARCH INTEGRITY

Office of Science and Technology Policy definition of FFP, processes differ

Office of Research Integrity

National Science Foundation, Office of the Inspector General

Office of Laboratory Animal Welfare

Office for Human Research Protections

Veteran's Administration

Department of Agriculture

Department of Defense

Environmental Protection Agency ... etc.

NO National Charter or Code

U.S. OFFICE OF RESEARCH INTEGRITY (1992)

- \sim 4,000 institutions with assurances (\sim 400 non-U.S.)
- ~400 queries and allegations per year
- ~35-40 research misconduct cases opened per year
- ~10 public findings of research misconduct per year

(Fabrication, Falsification, Plagiarism in proposing, performing, reviewing or reporting research funding by the U.S. Public Health Service, ... 42 CFR 93; 2005)

Intentional, knowing, reckless

Preponderance of the evidence

Significant departure from accepted practices

ORI RESEARCH MISCONDUCT FINDINGS ARE PUBLIC



Case Summary: Reddy, Venkata J.

AGENCY: Office of the Secretary, HHS.

ACTION: Notice.

 $SUMMARY: \ \ Notice \ is \ hereby \ given \ that \ the \ Office \ of \ Research \ Integrity \ (ORI) \ has \ taken \ final \ action \ in$

the following case:

Venkata J. Reddy, University of Minnesota: Based upon the evidence and findings of an investigation report by the University of Minnesota (UMN), an investigation conducted by another Federal agency, and additional information obtained by the Office of Research Integrity (ORI) during its oversight review of the UMN investigation, ORI found that Mr. Venkata J. Reddy, former Graduate Student, Department of Chemistry, UMN, engaged in research misconduct in research that was included in grant application R01 GM095559-01A1, submitted

to the National Institute of General Medical Sciences (NIGMS), National Institutes of Health (NIH).

ORI found by a preponderance of the evidence that the Respondent intentionally and knowingly engaged in research misconduct by falsifying and/or fabricating data that was provided to his mentor to include in grant application R01 GM095559-01A1 submitted to NIGMS, NIH, to obtain U.S. Public Health Service (PHS) funds. Specifically, ORI found that the Respondent falsified data included in Figures 4, 9, 11, 15, and 25 in R01 GM095559-01A1 for enantiomeric excess ("ee") to falsely show a high degree of selectivity for one enantiomer over another by a cut-and-paste method and manipulation of the instrument to give the desired result. Respondent also falsified the underlying nuclear magnetic resonance spectroscopy (NMR) data for Compound 22 reported in Figure 15 in R01 GM095559-01A1 by a cut-and-paste method to manipulate the NMR spectra and give the desired result.

Dr. Reddy has been debarred by the Federal agency with joint jurisdiction for a period of five (5) years, ending on August 26, 2018. ORI has implemented the following administrative action to coincide with the government-wide debarment:

(1) Respondent is prohibited from serving in any advisory capacity to PHS including, but not limited to, service on any PHS advisory committee, board, and/or peer review committee, or as a consultant.

Last Updated on Mon, 2015-05-04 11:38.

SCIENTIFIC STRATEGY

NSF Strategic Plan for 2014-2018

NIH Strategic Plan 2016-2020

Healthy People 2020, ... etc.



A STRATEGY FOR AMERICAN INNOVATION

National Economic Council and
Office of Science and Technology Policy

October 2015



RCR EDUCATION

ORI regulation mandates that "institutions must foster an environment that promotes the responsible conduct of research" (42 C.F.R. Part 93)

NSF Implementation of America COMPETES Act, 2009

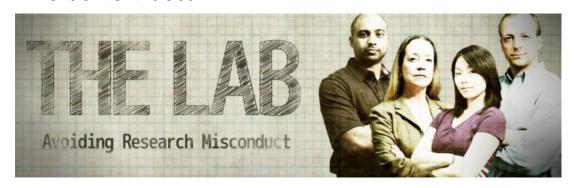
NIH training grant requirements, 2009 (NOT-OD-10-019)

RCR is NOT mandatory for everyone

Various resources and approaches to meeting training requirements

RESOURCES FROM ORI

Interactive Videos



Video Case Studies





Infographics

U.S. INFLUENCE ON GLOBAL RESEARCH INTEGRITY

U.S. ORI involvement in WCRI since inception

Other countries request guidance on handling allegations of FFP

Over 1,000,000 visits to ORI website per year

NIH, NSF, NAS, AAAS, etc.

GAPS

Assessment of RCR training Rigor of research on research integrity Degree of institutional cooperation Degree of federal cooperation Protection of whistleblowers Incentives Research integrity in quality assessment and ranking



Thank you & acknowledgments:

Raju Tamot Loc Nguyen-Khoa Madeline Rooney Penelope Theodorou

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