



NATIONAL
ACADEMIES *Sciences*
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The Strategic Council for Research Excellence, Integrity, and Trust: Scope and Current Projects

Jennifer Heimberg

World Conference on Research Integrity

Athens, Greece

3 June 2024

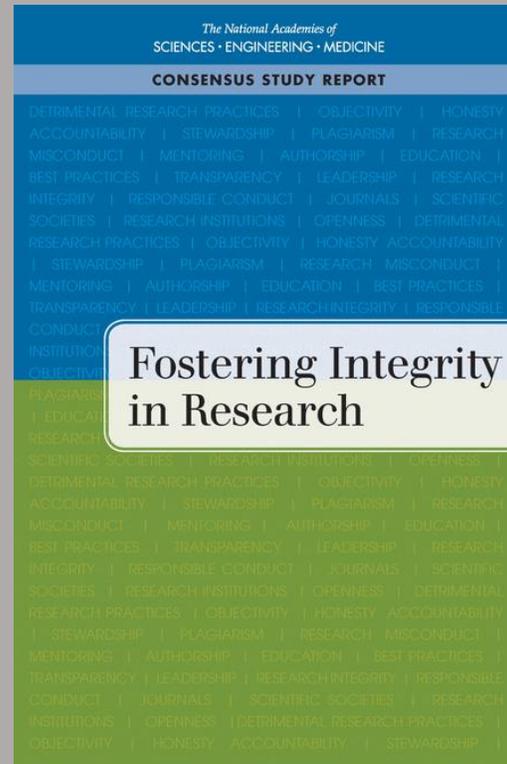


OPTIMIZING THE NATION'S INVESTMENT IN ACADEMIC RESEARCH

A New Regulatory Framework for the 21st Century

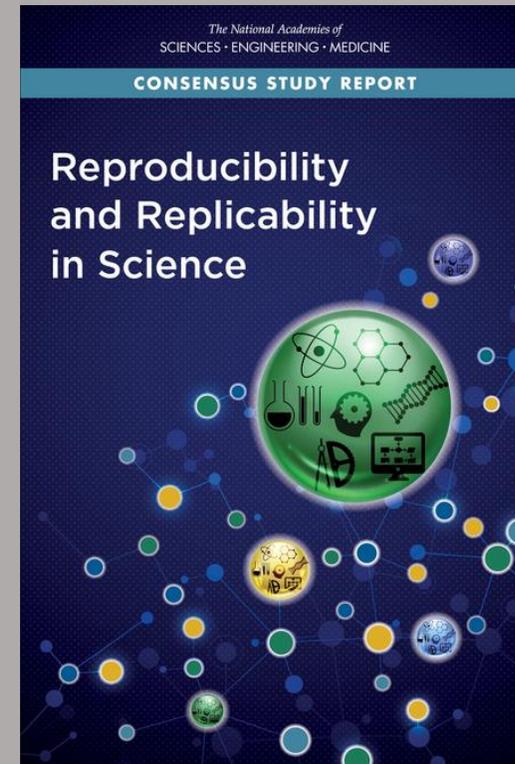
The National Academies of
SCIENCES • ENGINEERING • MEDICINE

2016



Fostering Integrity in Research

2017



Reproducibility and Replicability in Science

2019

The Strategic Council for Research Excellence, Integrity, and Trust

Co-chairs



Marcia McNutt

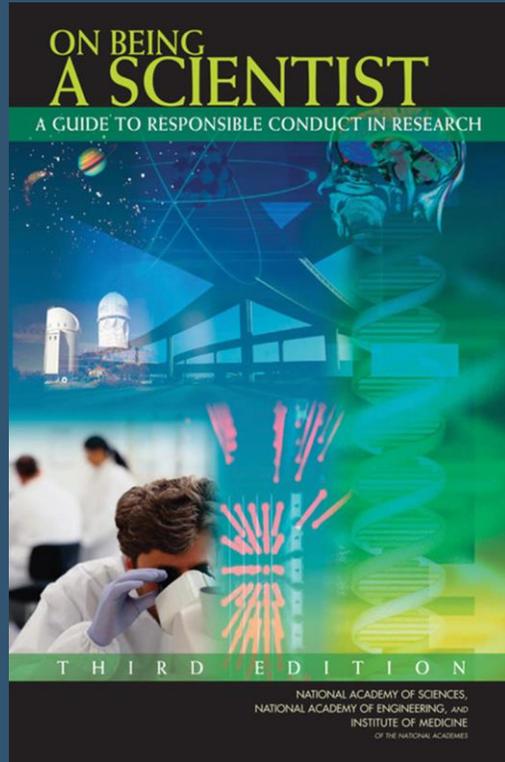


David B. Allison



France A. Córdova

Members include journal editors, university presidents, leaders within US funding agencies, and entrepreneurs.



Working Group 1: *On Leading a Lab* workshop (December 2023)

PNAS



AT THE
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ACADEMIES

 OPEN ACCESS



Trends in US public confidence in science and opportunities for progress

Arthur Lupia^{a,1,2} , David B. Allison^{b,3} , Kathleen Hall Jamieson^{c,2} , Jennifer Heimberg^{d,4} , Magdalena Skipper^{e,2}, and Susan M. Wolf^{f,2} 

WG2: Public trust and confidence in science

PNAS, March 2024, <https://doi.org/10.1073/pnas.2319488121>

WG4: Indicators of trustworthiness in research

WG7: Improving corrections and retractions (planned consensus study)

JUNE 26 • WASHINGTON, DC

STATE OF THE SCIENCE

Delivered by Marcia McNutt
President, National Academy of Sciences

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Extra slides

Co-chaired by **Dr. Marcia McNutt** (President, National Academy of Sciences), **Dean David Allison** (Dean, Distinguished Professor, and Provost Professor, Indiana University School of Public Health – Bloomington), and **Dr. France Córdova** (President, Science Philanthropy Alliance and former Director, National Science Foundation), the Strategic Council serves as a venue for multiple stakeholders to advance collectively the integrity, ethics, resilience, and effectiveness of the research enterprise while at the same time preparing it for tomorrow's challenges.

The Strategic Council is charged with:

- Identifying, anticipating and prioritizing key challenges to research ethics, integrity and trustworthiness,
- Articulating principles, policies and best practices to address them,
- Catalyzing progress by coordinating collaborative actions, and

Breaking barriers where needed to accelerate solutions, be they conceptual, technological, cultural, or procedural.

The Strategic Council for Research Excellence, Integrity, and Trust

Serves as an entity that fosters the integrity of science and improves the efficiency and effectiveness of the scientific enterprise.

High-level Goals:

1. Align the incentive structures within the research enterprise to promote trustworthy scientific results.
2. Identify and communicate the norms of excellent research.
3. Encourage wide-spread adoption of tools and methods proven to increase efficiency and quality of research.

Align the incentive structures within the research enterprise to promote trustworthy scientific results.

Current relevant working groups of the Strategic Council:

- Indicators of trustworthy research - article in late 2024
- Authorship: Credit and Accountability
- Study: Corrections & Retractions, Improving the Quality of the Scientific Record

Draft content

The Strategic Council for Research Excellence, Integrity, and Trust

ACTIVITY DESCRIPTION:

The Strategic Council for Research Excellence, Integrity, and Trust (the Strategic Council) brings together high-level scientific leaders committed to elevating and safeguarding the health and welfare of the research enterprise through action. The Council held its first meeting in October 2021.

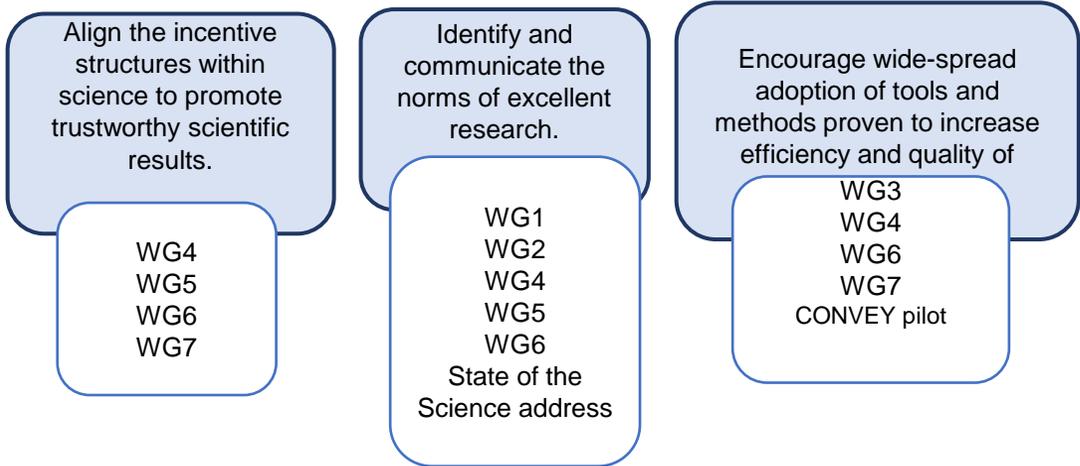
Led by co-chairs Marcia McNutt, David Allison, and France Córdova, the Strategic Council within its first two years has enabled 7 working groups, produced two PNAS articles, created a NASEM workshop, and has planned the first State of the Science address which will incorporate content from leaders across scientific enterprise including those in engineering and medicine. In fact, the number and variety of working groups and activities within the Strategic Council necessitated the development of high-level goals via a strategic plan to guide the Council’s work and priorities (see Figure 1). Notably, the current portfolio spans a set of quick win activities as well as longer term projects exploring some of the toughest problems in the US research enterprise such as the identifying and promoting the norms of trustworthy science to engender the public’s trust.

The inaugural class of Council members concludes its term at the end of May 2024. More than 75% of the membership has committed to another 3-year term, with some noting that “Now more than ever, there is a need for the Strategic Council.”

These indicators—a vote of confidence from the membership and the number of active working groups—point to a strong launch of the Strategic Council and a need to further establish a lasting capability, especially during a period of intense changes to the research enterprise and the political landscape.

High-level Goals:

Working groups:



Co-chairs

The Strategic Council for Research Excellence, Integrity, and Trust



Marcia McNutt



Wayne Cascio



Michael Drake



Juan Enriquez



Amanda Greenwell



Vidar Helgesen



David B. Allison



John L. Hennessy



Kathleen Hall Jamieson



Lyric Jorgenson



Veronique Kiermer



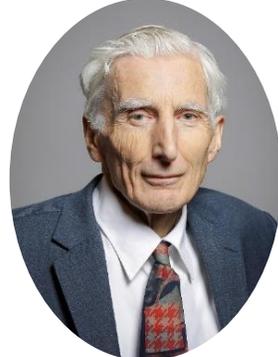
Arthur "Skip" Lupia



Brian Nosek



France A. Córdova



Martin J. Rees



L. Rafael Reif



Magdalena Skipper



Barbara R. Snyder



Susan M. Wolf

Align the incentive structures within science to promote trustworthy scientific results.

Identify and communicate the norms of excellent research.

Encourage widespread adoption of tools and methods proven to increase efficiency and quality of research.

Align the incentive structures within science to promote trustworthy scientific results.

Working Group 4 (WG4)

WG5

WG6

WG7

Identify and communicate the norms of excellent research.

WG1

WG2

WG4

WG6

State of the Science
address

Encourage widespread adoption of tools and methods proven to increase efficiency and quality of research.

WG3

WG6

WG7

Align the
incentive
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science to
promote
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scientific results.

Working Group 4 (WG4): Indicators of Trustworthiness in
Research