

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Developing a Toolkit for Fostering Open Science Practices: Proceedings of a Workshop

Release Event

September 30, 2021 (Thursday)

All times are US Eastern Time

3:30 PM	Welcome Keith Yamamoto, Co-Chair, Roundtable on Aligning Incentives for Open Science and Special Advisor to the Chancellor for Science Policy and Strategy
3:45 PM	National Academies Efforts in Open Scholarship and Related Areas Marcia McNutt, President, National Academy of Sciences
4:00 PM	Overview of Toolkit Elements Greg Tananbaum, Director, Open Research Funders Group
4:10 PM	Case study: How funders are deploying the signaling language at the grant application stage Maryrose Franko, Executive Director, Health Research Alliance
4:20 PM	Case study: How JHU and peers adapted the good practice primers to write a guide for code and software Sayeed Choudhury, Associate Dean for Research Data Management and Hodson Director of the Digital Research and Curation Center, Johns Hopkins Sheridan Libraries
4:30 PM	Adjourn

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Biographies of Speakers

KEITH R. YAMAMOTO (Roundtable Co-Chair) (NAS/NAM) is University of California, San Francisco (UCSF) vice chancellor for science policy and strategy, director of precision medicine for UCSF, and professor of cellular and molecular pharmacology at UCSF. He is a leading researcher investigating transcriptional regulation by nuclear receptors, which mediate the actions of essential hormones and cellular signals; he uses mechanistic and systems approaches to pursue these problems in pure molecules, cells and whole organisms. He has led or served on numerous national committees focused on public and scientific policy, public understanding and support of biological research, and science education; he chairs the Coalition for the Life Sciences, and sits on the National Academy of Medicine Council and the National Academy of Sciences (NAS) Division of Earth and Life Studies Advisory Committee. As Chair of the NAS Board on Life Sciences, he created the study committee that produced “Toward Precision Medicine: Building a Knowledge Network for Biomedical Research and a New Taxonomy of Disease,” the report that enunciated the precision medicine concept, and he has helped to lead efforts in the White House, in Congress, in Sacramento and at UCSF to implement it. He has chaired or served on many committees that oversee training and the biomedical workforce, research funding, and the process of peer review and the policies that govern it at the National Institutes of Health. He is a member of the advisory board for Lawrence Berkeley National Laboratory and the board of directors of Research!America. He was elected to the National Academy of Sciences, the National Academy of Medicine, the American Academy of Arts and Sciences, and the American Academy of Microbiology, and is a fellow of the American Association for the Advancement of Science.

MARCIA MCNUTT (NAS/NAE) is a geophysicist and the 22nd president of the National Academy of Sciences. From 2013 to 2016, she was editor-in-chief of *Science* journals. Dr. McNutt was director of the U.S. Geological Survey (USGS) from 2009 to 2013, during which time USGS responded to a number of major disasters, including the Deepwater Horizon oil spill. For her work to help contain that spill, Dr. McNutt was awarded the U.S. Coast Guard’s Meritorious Service Medal. She is a fellow of the American Geophysical Union (AGU), Geological Society of America, the American Association for the Advancement of Science, and the International Association of Geodesy. Dr. McNutt is a member of the American Philosophical Society and the American Academy of Arts and Sciences, and a Foreign Member of the Royal Society, UK, and the Russian Academy of Sciences. In 1998, Dr. McNutt was awarded the AGU’s Macelwane Medal for research accomplishments by a young scientist, and she received the Maurice Ewing Medal in 2007 for her contributions to deep-sea exploration. Dr. McNutt received a B.A. in physics from Colorado College and her Ph.D. in Earth sciences from the Scripps Institution of Oceanography.

GREG TANANBAUM is the Project Coordinator for the Open Research Funders Group (ORFG), a partnership of funding organizations committed to the open sharing of research outputs. He helped conceive of and launch the ORFG, and he has served as its leader since its inception in 2016. In this capacity, Mr. Tananbaum coordinates the open science activities of the 13-member ORFG, who have a combined \$108 billion in assets. He also serves as a Consultant for the Scholarly Publishing and Academic Resources Coalition (SPARC). On behalf of SPARC, he has developed resources pertaining to big deal subscription cancellations, the conversion of journals from subscription-based to open access, campus-based open access funds, and open data policies. Mr. Tananbaum has over 20 years’ experience

in scholarly communications, academic publishing, and technology. Mr. Tananbaum has served as President of The Berkeley Electronic Press, as well as Director of Product Marketing for EndNote. He has been as an invited speaker at dozens of conferences, including the American Library Association, the Society for Scholarly Publishing, the Association of Professional and Learned Society Publishers, and Online Information UK. He holds a Master's Degree from the London School of Economics and a B.A. from Yale University.

MARYROSE FRANKO (Roundtable Ex-Officio Member) is the Executive Director of the Health Research Alliance (HRA) a multi-national consortium of nonprofit organizations working to maximize the impact of investment in biomedical research to improve human health. Dr. Franko's background includes over 20 years of program management at the Howard Hughes Medical Institute (HHMI). Duties at HHMI included strategic planning as well as creating, implementing, and managing over a dozen programs and initiatives. These initiatives include scientific research fellowships, an innovative university science education program, a joint initiative with the National Institutes of Health, and a student program at HHMI's state-of-the-art research facility, Janelia Research Campus. Dr. Franko received her Ph.D. in molecular genetics from the University of Southern California and completed a post-doctoral fellowship at the National Institutes of Health before joining HHMI. Her collaboration to produce *Making the Right Moves: A Practical Guide to Scientific Management for Postdocs and New Faculty*, which was a joint effort of HHMI and Burroughs Wellcome Fund, contributed to the collaborative efforts that led to the creation of HRA. Dr. Franko was a founding board member of HRA, serving from 1995 to 2012 and has served as its Executive Director since 2015.

SAYEED CHOUDHURY is the Associate Dean for Research Data Management at the Sheridan Libraries of Johns Hopkins University. He is also Senior Presidential Fellow at the Council on Library and Information Resources (CLIR), and Hodson Director at the Digital Research and Curation Center at Johns Hopkins University. From 2008 to 2010, he lectured in the Department of Computer Science at Johns Hopkins, and from 2007 to 2009 he was a Research Fellow at the Graduate School of Library and Information Science at the University of Illinois at Urbana-Champaign. Dr. Choudhury has served as principal investigator for projects funded through the National Science Foundation (NSF), Institute of Museum and Library Services (IMLS), and the Andrew W. Mellon Foundation. He is the principal investigator for the Data Conservancy, part NSF's DataNet program. He is a member of the ICPSR Council and DuraSpace Board. He is also the Director of Operations for the Institute of Data Intensive Engineering and Science (IDIES), based at Johns Hopkins. Dr. Choudhury has published articles in journals such as *International Journal of Digital Curation*, *D-Lib*, the *Journal of Digital Information*, *First Monday*, and *Library Trends*. He has served on committees for the Digital Curation Conference, Open Repositories, the Joint Conference on Digital Libraries, and WebWise. He has presented at various conferences including Educause, CNI, DLF, ALA, ACRL, and international venues including IFLA, the Kanazawa Information Technology Roundtable, and eResearch Australasia. Dr. Choudhury contends that emerging developments in data-intensive scholarship across a range of disciplines might represent the "inflection point" in terms of transformation.