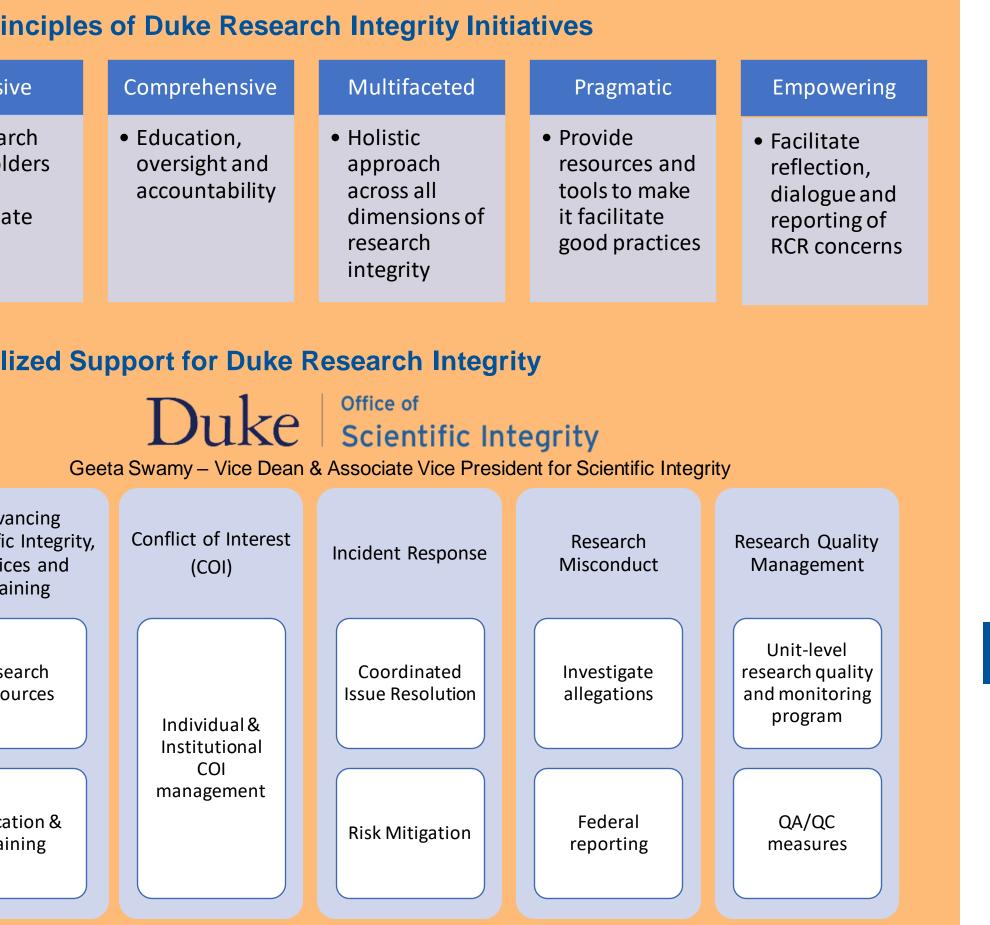
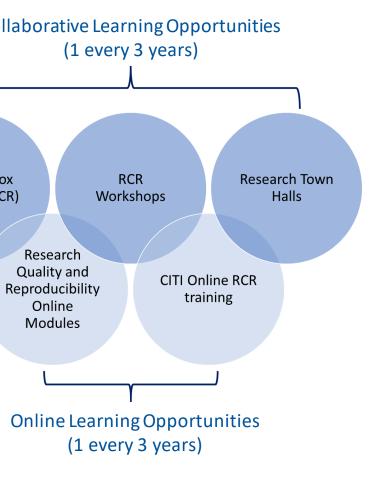
Promoting the Responsible Conduct of Research at Every Level of Research Training at Duke Duke Geeta K. Swamy, MD, Vice Dean of Scientific Integrity and Associate Vice President for Research Duke Department of Obstetrics and Gynecology, Duke School of Medicine, and Duke University, Durham, NC, USA Approach to Research Integrity Resources Introduction In 2018, Duke University consolidated its research integrity programs into one office, the myRESEARCHpath **Key Principles of Duke Research Integrity Initiatives** Duke Office of Scientific Integrity (DOSI). The Responsible Conduct of Research (RCR) An interactive research roadmap, which provides resources, including consultations, for quality program, housed within DOSI, was expanded based on the pilot program implemented in Multifaceted Pragmatic Inclusive Comprehensive Empowering research in the context of the research lifecycle. the School of Medicine in 2017 to include faculty and staff researchers across campus. The goals of the program are to develop and support a culture of research integrity by Provide All research • Education, Holistic • Facilitate *uy***RESEARCH***path* About Feedback Log out Search being inclusive, comprehensive, multifaceted, pragmatic and empowering as well as to Home oversight and stakeholders approach resources and reflection, provide the resources necessary to make it 'easy' to conduct research with integrity. accountability need to across all tools to make dialogue and participate dimensions of it facilitate reporting of research good practices **RCR** concerns **Duke Environment** 2 3 5 6 integrity Generate Initiate Plan and Develop and Conduct and Manage Awar **Duke University Facts and Figures** Refine Project Submit Proposal Project **Oversee Project** and Finances and Close Out **Centralized Support for Duke Research Integrity** The interactive roadmap for navigating research at Duke University 10 Schools and Colleges Office of Scientific Integrity **RCR Toolbox** Geeta Swamy - Vice Dean & Associate Vice President for Scientific Integrity 1,687 total Professors Online source for curated RCR training materials that units may access and use to deliver RCR Advancing content at the local level. Conflict of Interest Scientific Integrity, Research Quality Research Incident Response 20,772 employees (COI) Misconduct Management Services and Training 15,892 total students (undergraduate, graduate, professional) Measuring Effectiveness Unit-level Coordinated Investigate research quality Research **Issue Resolution** allegations and monitoring Resources ~\$500 million per year awarded to Duke researchers A number of steps have been implemented and are planned to facilitate ongoing program Individual & program evaluation and improvement. Institutional COI management Survey of Organizational Research Climate QA/QC Education & Federal (SOURCE) is a validated instrument to assess the **Risk Mitigation Continuous Improvement Cycle** Training reporting measures climate of research integrity with academic **Key Events Leading up to Current Programs** institutions • Key domains assessed: Develop programming Responsible Conduct of Research Regulatory Quality Duke Pulmonary 2016 **Nov 2018** 2012 Assessment **RCR Program** Integrity Socialization University Program research **Creation** of from New NIH Translational Creation of misconduct Medical Center Refinement **Duke Office** requirements Integrity Norms federal funding 'Omics and Advancing Leadership for Duke of Scientific Research embezzlement suspended by Scientific Advisor-Advisee Relations Integrity (DOSI) grants Misconduct Office for Integrity 2013 Case Protection from **April 2018** Lack of Integrity Inhibitors Services and Research Collaborative Learning Opportunities By the Numbers Training Departmental Expectations Risks (OPRR) (ASIST) Assessment (1 every 3 years) Implementation May 1999 Baseline survey completed in 2017 by +/- 1500 Program from Users DOSI tracks RCR education compliance and at present ~94% of all Duke faculty and staff, and **SOM researchers** 100% of students and postdocs are in • Plan to redistribute across campus in early 2021 to compliance with the RCR training programs. assess change **RCR** Toolbox RCR **Research Town** (Unit-led RCR) In 2019, there was ~30% increase in queries to Workshops Halls The Research Support Ecosystem at Duke the research misconduct review officer over the Conclusion ち previous year, suggesting that individuals are Research Quality and either more aware of the types of behaviors that CITI Online RCR Reproducibility **D:CD:CD:**C should be reported or they feel more comfortable training At Duke, research integrity programs have been consolidated into a single office, allowing the Online **Duke Office** Modules reporting them. U U U of Research institution to better achieve its goal of ensuring that research is planned and executed with Initiatives the highest integrity. A robust, semi-customizable faculty and staff RCR education program has been established. The RCR program is integrated and decentralized in that traditional Informatics, Incident \bigcirc **Duke Office of** ormation Security RCR programming has been expanded into the community via Research Town Halls and **Response & Online Learning Opportunities** Scientific Integrity and Technology Issue Resolution (1 every 3 years) local small-group RCR discussions. The integrated approach has helped inculcate the Q990 community with the language of research integrity, by providing more opportunities for Ω **Duke Libraries Data** relevant, meaningful discussions and activities. **Curation Services Event Topics** 9990 S • Authorship, ownership and plagiarism Duke Office of Clinical • Conflict of Interest and Entrepreneurship myRESEARCHSuite Research Reference • International Research Collaborations What one word describes your experience Perverse Incentives with authorship assignment? \bigcirc Research Administration Simon et. al., Implementation of a Responsible Conduct of Research education program at • Data Management Best Practices and Comfortableamicable eyer and Compliance Duke University School of Medicine. Accountability in Research (2019). Resource inclear, none integrityperipheral integrityperipheral ok clear fine complexchallenges confusing variableodd clear fine complexchallenges complicated passive passive complicated wwward • Mentor-Mentee Relationships Science Publishing At Duke, the Duke Office of Scientific Integrity works in partnership with other Acknowledgements conventional -doubts research support offices and services across the research spectrum, including the ownershipfeeling collaborative good frustration cooperative compliance extensive mixed nonexistent





Duke Office of Research Initiatives, the Duke Office of Clinical Research and the

Duke Libraries Data and Curation Services.



This work is supported by Duke University.

