

# *Scientific Integrity & Research Compliance*

New Faculty Orientation 2023

**James L. Mohler, AVP, RIO & Professor**

jlmoehler@purdue.edu

Ph. 765.496.6071



# ***Scientific Integrity***

Scientific integrity is the adherence to **professional practices, ethical behavior**, and the principles of **honesty and objectivity** when conducting, managing, using the results of, and communicating about science and scientific activities. **Inclusivity, transparency, and protection from inappropriate influence** are hallmarks of scientific integrity.

# ***Research Misconduct***

Research misconduct is conduct by a **Purdue Associate** taking place at Purdue or in connection with Purdue research that constitutes **Fabrication, Falsification or Plagiarism** with Culpable Intent in proposing, performing or reviewing research, or in reporting research results. Conduct by a person taking place before or after the period during which the person is a Purdue Associate does not constitute Research Misconduct under this Policy.

# ***Federal Agencies – Requirements***

- Responsible Conduct of Research Training (RCR/RECR)
  - Purdue requires CITI + 2 Hours of Discipline Specific for all researchers (see Standard S-20)
  - Available workshops via Graduate School
  - NIH (8 hours) GRAD 612 or departmental course
- Individualized Development Plans (IDPs) for students & postdocs
  - IDP Science Careers AAAS
  - IDP American Psychological Association
  - Purdue University College of Engineering
- Research Security (NSF/DOD)
  - Foreign travel, cybersecurity, export control training & research security training

# ***Federal Agencies – Focal Points***

- Generative AI
  - Caution & Transparency
- Research Security/Undue Foreign Influence
  - Particularly FCOI
- Supportive and Safe Mentoring
  - Safety in all forms – physical, mental, etc.
  - Inclusion & underestimation
  - Setting expectations for behavior
  - Knowing how to report
- Data Management Plans

# ***Faculty Mentoring Statements***

- Thesis
- Publications
- Authorship
- Career paths
- Meetings
- Independence
- Travel Support
- Stipends/Salary
- Research Funding
- Coursework
- Grant Proposal Writing
- Original Literature
- Teaching
- Personal Life
- Time Management
- Dept/Univ Service
- Ethics
- Resolving Conflicts

# ***Tactics for Mentoring***

- Ask how they are doing.
- Provide encouragement and support.
- Clarify performance expectations upfront.
- Sponsor mentees for important opportunities.
- Provide insider information (“demystify the system”).
- Constantly affirm (nurture & support their career goals).
- Provide professional exposure and promote visibility.
- Foster their mentoring networks.
- Self-disclose when appropriate (especially if it will help the mentee).
- Allow increasing mutuality and collegiality.

# ***Faculty To-Dos***

- Review Researcher Training cheat sheet
- Complete CITI RCR training and 2 hr discipline/field specific requirement
- Create a faculty mentoring statement to help with student recruitment
- Additional training/information:
  - IRB/HRPP
  - IACUC/LAP
  - Biosafety/EHS
  - Export Controls
  - Conflict of Interest



# ***Important Contacts***

## ***For RIO (& anything!)***

James Mohler  
AVP for Scientific Integrity & Research Integrity Officer  
[jlmohler@purdue.edu](mailto:jlmohler@purdue.edu)  
765.496.6071

## ***For Research Security/Export Control***

Elizabeth Wagner  
Senior Director for Research Security & Trade Compliance  
[wagne366@purdue.edu](mailto:wagne366@purdue.edu)  
765.494.0702

## ***For IRB/HRPP***

Ianthe "Cookie" Bryant-Gawthrop  
Senior Director, Research Regulatory Affairs  
[ibg@purdue.edu](mailto:ibg@purdue.edu)  
765.494.7458

## ***For IACUC***

Lisa D. Snider  
Senior Compliance Officer  
[ldsnider@purdue.edu](mailto:ldsnider@purdue.edu)  
765.494.7206

## ***For Animal Resources/LAP***

Associate Vice President, Animal Resources  
[hickmand@purdue.edu](mailto:hickmand@purdue.edu)  
765.494.9128

## ***For Conflict of Interest***

Voichita M. Dadarlat  
Assistant Vice President for Research  
[voichi@purdue.edu](mailto:voichi@purdue.edu)  
765.494.1763

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