

Next: Emphasis on Rigor and Reproducibility in research applications **(NOT required for this review)**

- **Significance**

- **Scientific Premise of the Proposed Research**

- Review: Is there a strong scientific premise for the research?

- **Approach**

- **Rigorous Experimental Design**

- Review: Have the investigators presented strategies to ensure a robust and unbiased approach, as appropriate for the work proposed?

- **Consideration of Sex and Other Relevant Biological Variables**

- Review: Have the investigators presented adequate plans to address relevant biological variables, such as sex, for studies in vertebrate animals or human subjects?

- **Additional Review Considerations**

- **Authentication of Key Biological and/or Chemical Resources**

- Review: For projects involving key biological and/or chemical resources, reviewers will comment on the brief plans proposed for identifying and ensuring the validity of those resources.

- **Effective for applications as of January 25, 2016**

Next: Emphasis on Rigor and Reproducibility in research applications (for the June review meeting)

- **Key NIH Guide Notices:**

- **NOT-OD-15-102:** Consideration of Sex as a Biological Variable in NIH-funded Research
- **NOT-OD-15-103:** Enhancing Reproducibility through Rigor and Transparency
- **NOT-OD-16-004:** NIH and AHRQ Announce Upcoming Changes to Policies, Instructions, and Forms for 2016 Grant Applications
- **NOT-OD-16-011:** Implementing Rigor and Transparency in NIH and AHRQ Research Grant Applications

- **NIH Resources:**

- Staff training module on rigor and reproducibility: https://grants.nih.gov/reproducibility/module_1/presentation.html
- More information: <http://grants.nih.gov/reproducibility/index.htm>

- **Timeline:**

- Phase 1: January 25, 2016; added expectations for applications
- Phase II: May 25, 2016; new application guides and forms (“Form D”)