• Reproducibility and transparency of research findings have been noted as issues in multiple publications.
• These issues have been observed in both clinical and preclinical research.
• NIH has developed principles to address the issues
  • Raise community awareness
  • Enhance formal training
  • Protect the quality of funded research with a more systematic review process
  • Address issues of pressure and stability for investigators

The Economist – October 19th, 2013
NIH Pilots to be implemented in 2014

NINR will pilot test a revised biographical sketch and review checklist in one RFA in 2014.

**Biosketch**
Focuses on contributions to science

- **Personal Statement**: why are you well suited for your role on this project?
- **Positions and honors**: No change from SF 424
- **Contributions to Science**: describe up to 5 significant contributions to science (put those most relevant to your application first)
  - List up to 4 relevant publications
  - Explain the background framing the scientific problem
  - Indicate the central findings of your work
  - Describe the influence of the work on the progress of science/health/technology
  - Indicate your role in the work.
- **Research Support**: No change from SF 424

**Review Checklist for Grant Applications**

- **Experimental Design**
  - Discuss background literature
  - Outline conceptual framework
  - Address use of control groups
  - Clear justification of sample size and route and timing of the intervention delivery
- **Minimizing bias**
  - Describe methods of masking
  - Include strategies for randomization/stratification
  - Explain how missing data (attrition) will be addressed
  - Plans to ensure reproducibility of data
- **Interpretation of results**
  - Explain statistical methods and possible alternative interpretations of the data
  - Methods for handling missing data
  - Cite literature supporting/refuting potential results