

**Resources related to NIH application changes for 2016**  
**Compiled by the Department of Medicine Research Office: [DOM Research Office](#)**

<b>Notices</b>	
<a href="#">SF424 (R&amp;R) Application and Electronic Submission Information</a>	The updated application guide, dated 11/25/15, is linked on this page. The guide should be used for due dates between 1/25/16 and 5/24/16; new information is highlighted in <b>purple</b> : <ul style="list-style-type: none"> <li>• See pages 89, 171-172 for information about the attachment requirements for Authentication of Key Biological and/or Chemical Resources</li> <li>• See starting on page 142 for new information on requirements for the Research Plan</li> </ul>
<a href="#">NOT-OD-15-032 - 12/5/14</a>	New Biographical Sketch Format Required for NIH and AHRQ Grant Applications Submitted for Due Dates on or After May 25, 2015
<a href="#">NOT-OD-15-102 - 6/9/15</a>	Consideration of Sex as a Biological Variable in NIH-funded Research
<a href="#">NOT-OD-15-103 - 6/9/15</a>	Enhancing Reproducibility through Rigor and Transparency
<a href="#">NOT-OD-16-011 - 10/9/15</a>	Implementing Rigor and Transparency in NIH & AHRQ Research Grant Applications
<a href="#">NOT-OD-16-004 - 10/13/15</a>	NIH & AHRQ Announce Upcoming Changes to Policies, Instructions and Forms for 2016 Grant Applications
<a href="#">NOT-OD-16-006 - 10/13/15</a>	Simplification of the Vertebrate Animals Section of NIH Grant Applications and Contract Proposals
<a href="#">NOT-OD-16-012 - 10/13/15</a>	Implementing Rigor and Transparency in NIH & AHRQ Career Development Award Applications
<b>Policy</b>	
<a href="http://grants.nih.gov/reproducibility/index.htm">http://grants.nih.gov/reproducibility/index.htm</a>	NIH grants policy index page for Rigor and Reproducibility
<a href="http://grants.nih.gov/reproducibility/faqs.htm">http://grants.nih.gov/reproducibility/faqs.htm</a>	NIH Rigor and Reproducibility FAQs
<a href="http://grants.nih.gov/grants/forms_updates_faq.htm">http://grants.nih.gov/grants/forms_updates_faq.htm</a>	NIH FAQs for 2016 Form Updates

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<b>Videos</b>	
<a href="#">NIH Rigor and Reproducibility - Training</a>	Four video modules with accompanying discussion material that focus on integral components of reproducibility and rigor in the research endeavor, such as bias, blinding, and exclusion criteria. These modules are intended only to stimulate conversation, which may be facilitated by the use of the discussion materials, and are not meant to be comprehensive training modules. They may serve as a foundation upon which to build further education, training, and discussion.
<a href="#">NIH Policy: Rigor and Transparency - Module 1</a>	Slide show with audio developed for the NIH staff. Starting on slide 12 each key area of the policy is addressed: Scientific Premise; Rigorous Experimental Design; Relevant Biological Variables; and Key Resource Authentication. There are examples and the updated application instructions and review language are also covered.
VideoCast - NIH Workshop on Reproducibility in Cell Culture Studies  <a href="#">Day 1</a> <a href="#">Day 2</a> <a href="#">PDF of meeting agenda</a>	From an NIGMS/NIH conference held on 9/28 and 9/29 2015. Leading experts from academia and industry discuss factors that impact reproducibility in cell culture studies.
<b>Other Sources of Guidance</b>	
<a href="#">Guidelines for the Reproducibility of Biophysics Research</a>	Article from the Biophysical Society dated July 2015 on NIH's "Principles and Guidelines for Reporting Preclinical Research"
<a href="#">Open Science Framework</a>	Guidelines for Transparency and Openness Promotion (TOP) in Journal Policies and Practices
<a href="#">International Cell Line Authentication Committee</a>	The International Cell Line Authentication Committee aims to make false or misidentified cell lines more visible, and promote awareness and authentication testing as effective ways to combat the problem. Included in the site resources are: <ul style="list-style-type: none"> <li>• a database of cross-contaminated or misidentified cell lines;</li> <li>• a guide to human cell line authentication;</li> <li>• a cell line checklist for manuscripts and grant applications;</li> <li>• a match criteria worksheet</li> </ul>

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<a href="#">Policy: NIH plans to enhance reproducibility</a>	Article from Nature dated 1/27/14 by Francis S. Collins and Lawrence A. Tabak
<a href="#">Fixing problems with cell lines</a>	Article from Science Magazine dated 12/19/14 by Francis Collins, Jon R. Lorsch, and Jennifer Lippencott-Schwartz
<a href="#">American Type Culture Collection (ATCC)</a>	ATCC is a global biological materials resource and standards organization whose mission focuses on the acquisition, authentication, production, preservation, development, and distribution of standard reference microorganisms, cell lines, and other materials. Their website is a good source of information and standards for characterizing cell lines. They have a series of downloadable culture guides which are free but require registration.
<a href="#">ATCC/ANSI Authentication of Human Cell Lines</a>	Brief summary of American National Standard (ANS) ANSI/ATCC ASN-0002-2011, Authentication of Human Cell Lines: Standardization of STR Profiling. A PDF of the procedure is available for purchase through ANSI for \$240. <a href="#">ANSI Web Store</a>