Reading List | BDK19 | Unit 1

Replication, Validation and the spectrum of Reproducibility

Suggested readings on the following topics:

- 1. Issues with scientific reproducibility in the media
- 2. Improving clinical reproducibility
- 3. NIH efforts to enhance scientific reproducibility
- 4. Reproducibility Initiative
- 5. Improving identification of cell lines

Issues with scientific reproducibility in the media

No, science's reproducibility problem is not limited to psychology

https://www.washingtonpost.com/news/speaking-of-science/wp/2015/08/28/no-sciences-reproducibility-problem-is-not-limited-to-psychology/

Trouble at the lab

http://www.economist.com/news/briefing/21588057-scientists-think-science-self-correcting-alarming-degree-it-not-trouble

NIH efforts to enhance scientific reproducibility

NIH plans to enhance reproducibility

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4058759/

Improving clinical reproducibility

A call for transparent reporting to optimize the predictive value of preclinical research

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3511845/

Drug development: Raise standards for preclinical cancer research

http://www.nature.com/nature/journal/v483/n7391/full/483531a.html

Reproducibility Initiative

Over half of psychology studies fail reproducibility test

http://www.nature.com/news/over-half-of-psychology-studies-fail-reproducibility-test-1.18248

Science Forum: An open investigation of the reproducibility of cancer biology research

http://elifesciences.org/content/3/e04333v1

Improving identification of cell lines

Fixing problems with cell lines

http://science.sciencemag.org/content/346/6216/1452

Reproducibility: changing the policies and culture of cell line authentication

http://www.nature.com/nmeth/journal/v12/n6/full/nmeth.3403.html