

Study Questions for “Empowering statistical methods for cellular and molecular biologists” by Pollard et al.

- 1) What is different between SEM and SD?
- 2) Which of the statistical tests in Table 1 have you used in your own research?
- 3) Can you cite an example in research from yourself, your lab, or a publication where the wrong test was used? Or one where you weren't sure what test to use? Use Figure 2 and/or Box 3 to figure out where in the decision process an error was made.
- 4) **Challenge question:** What criteria would you use to distinguish biological replicates from technical replicates in a bioinformatics paper?
- 5) **Challenge question:** Do you agree with the cited papers arguing that scientists should stop using p-values?