The ASA 2016 Guide's Six Principles (Wasserstein & Lazar 2016)

- 1. P-values can indicate how incompatible the data are with a specified statistical model.
- 2. *P*-values do not measure the probability that the studied hypothesis is true, or the probability that the data were produced by random chance alone.
- 3. Scientific conclusions and business or policy decisions should not be based only on whether a *p*-value passes a specific threshold.
- 4. Proper inference requires full reporting and transparency.
- 5. A *p*-value, or statistical significance, does not measure the size of an effect or the importance of a result.
- 6. By itself, a *p*-value does not provide a good measure of evidence regarding a model or hypothesis.