

TAKE THE PREREGISTRATION CHALLENGE LIFE SCIENCES



Transparency into the research workflow is a core value of **science**. Preregistration adds transparency by specifying *in advance* how data will be collected and analyzed.

PREREGISTRATION ADDS CLARITY & CREDIBILITY

Preregistration distinguishes hypothesis testing from hypothesis generating research. Both are important. However, the same data cannot be used to generate and test a hypothesis, as often happens unintentionally.

HYPOTHESIS TESTING

Statistical tests are specified in advance
Goal is to minimize false discoveries

vs.

HYPOTHESIS GENERATING

Exploring through data is encouraged
Goal is to avoid missing serendipitous findings

Presenting exploratory outcomes as confirmatory makes results seem tidier, but reduces credibility and rigor.

WHY PREREGISTER?

- 1 It increases the credibility of your results.
- 2 It allows you to stake a claim to your ideas sooner.
- 3 It improves your design by encouraging earlier planning.
- 4 You can win \$1,000 for publishing the results.

PUBLISH IN THESE ELIGIBLE JOURNALS

- Biology Letters
- Journal of Cell Biology
- Philosophical Transactions of the Royal Society B: Biological Sciences
- Science
- Nature
- Nature Genetics
- Scientific Reports
- PLOS Biology
- PLOS ONE
- Royal Society Open Science

And more. . .

Preregistering your study does not guarantee publication in any journal.

LEARN MORE AT [COS.IO/PREREG](https://cos.io/prereg)



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