

## Video: The basics of reproducibility

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Brian Nosek, director of the Center for Open Science, discusses reproducibility and replicability.

The scientific community is constantly working to improve the robustness and reliability of published research. Brian Nosek, president and director of the Center for Open Science, has dedicated his career to asking—and answering—questions about the means through which that can be accomplished.

One of Nosek's specialties is exploring the possibilities of [reproducibility](#) and replicability, issues that deal with whether findings from research can be independently verified.

According to Nosek, reproducibility generally refers to whether one

group of scientists can repeat the analysis cited in another group's piece of published research—using the data and findings generated in the original study—and arrive at the same result as the author. Replicability generally refers to scientists independently repeating previous studies by other scientists, under the same conditions, and seeing if they achieve the same results.

Nosek, who is a [psychology professor](#) at the University of Virginia, explained those concepts in detail during an interview at the National Science Foundation, and talked about potential means for creating incentives within the [scientific community](#) to stimulate more replication—and expansion—of research.

Provided by National Science Foundation

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