

# Problematic Research Practices and Inertia in Scientific Psychology

Scientific psychology, as a field dedicated to understanding human behavior and mental processes, holds immense promise for expanding our knowledge and improving well-being. However, recent years have witnessed a growing concern regarding the prevalence of problematic research practices that threaten the integrity and reliability of scientific findings in psychology.

## Pervasive Problems in Psychology Research

One of the most concerning issues in psychology research is the widespread use of small sample sizes. Small samples reduce the statistical power of studies, making it more difficult to detect genuine effects. This can lead to false negatives, where real effects are missed due to insufficient data. Conversely, it can also inflate the risk of false positives, where observed effects may be spurious and not replicable.



## Problematic Research Practices and Inertia in Scientific Psychology: History, Sources, and Recommended Solutions (Advances in Theoretical and Philosophical Psychology)

by Arthur E. Jongsma

★★★★★ 5 out of 5

Language : English

File size : 8573 KB

Print length : 144 pages

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Another prevalent problem is the selective reporting of results. Researchers may selectively choose to publish only statistically significant findings, while omitting non-significant results. This cherry-picking bias can present a distorted view of the research literature, overestimating the strength and consistency of reported effects.

Additionally, p-hacking is a common practice that involves manipulating data or analysis methods to produce statistically significant results. This undermines the validity of results and erodes trust in scientific findings.

### **The Consequences of Problematic Practices**

Problematic research practices have far-reaching consequences for scientific psychology. They undermine the reliability and replicability of research findings, making it difficult to draw meaningful conclusions about human behavior. The overreliance on small sample sizes and selective reporting can lead to exaggerated claims and inflated effect sizes, which can misinform theory and practice.

Furthermore, these practices erode public trust in science. When research findings are unreliable or biased, it diminishes the credibility of scientific knowledge and makes it harder for the public to make informed decisions based on scientific evidence.

### **Inertia and Resistance to Change**

Despite growing awareness of the prevalence of problematic research practices, there is a concerning inertia within scientific psychology. Many researchers continue to use outdated methods and resist calls for improvement. This resistance to change is often attributed to factors such

as tradition, fear of career implications, and the perceived workload of implementing more rigorous practices.

This inertia serves as a significant barrier to progress in scientific psychology. It prevents researchers from embracing more robust and transparent methods that could improve the quality and credibility of research findings. Ultimately, it hampers our ability to fully understand human behavior and develop effective interventions.

### **Breaking the Cycle of Problematic Practices**

To address the pervasive problems in scientific psychology, it is imperative to break the cycle of inertia and embrace change. This requires a concerted effort from researchers, institutions, and funding agencies to promote and implement more rigorous research practices.

Researchers must be encouraged to use larger sample sizes, report all results regardless of statistical significance, and avoid p-hacking. Institutions and funding agencies should provide support for researchers to adopt these practices and create a culture that values scientific integrity above all else.

### **Moving Forward with Integrity**

Scientific psychology has the potential to make significant contributions to our understanding of the human mind and improve the lives of countless individuals. However, it is essential to address the problems of problematic research practices and inertia that currently hinder its progress.

By embracing more rigorous methods and promoting transparency and reproducibility, we can restore confidence in scientific psychology and

unlock its full potential to advance our knowledge and enhance human well-being.

## Call to Action

We urge researchers, institutions, and funding agencies to join forces in tackling the challenges of problematic research practices and inertia in scientific psychology. By working together, we can create a culture of integrity and excellence that will pave the way for a more reliable and trustworthy scientific enterprise.

The future of scientific psychology depends on our collective commitment to improving research practices and breaking the cycle of inertia. Let us embrace the challenges ahead and strive to restore the integrity and credibility of our field.



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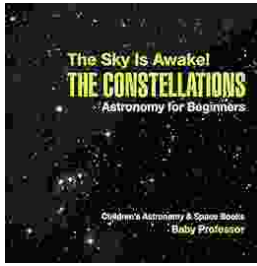
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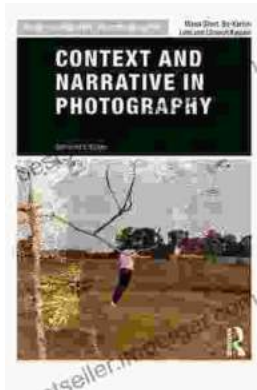
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