

Leverhulme-Bridges and Behavioural Science GRP Colloquium Series: Scientific Reproducibility





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1.30-2.30PM, 14 June (Tue), Wolfson Research Exchange 1 (Library).

Reproducibility: Crisis or opportunity?

There have been a number of high profile cases of academic fraud recently. However, a more insidious threat to the integrity of science is the extent to which distortions of scientific best practice increases the likelihood that published research findings are in fact false. I will provide evidence for a range of systemic problems within science, such as flexibility in the analysis of data, selective reporting of study results, publication bias against null results, influence of vested (e.g., financial) interests, and distorted incentive structures. I will show that under some plausible and quite conservative assumptions, it is likely that the majority of published findings are in fact false. A number of strategies for improving the situation will be discussed.

For more details about the colloquium: http://warwick.ac.uk/bridges-phd/scientificreproducibility .