KU Leuven Open Science Day

How current research practices are damaging science, and how open science offers some solutions

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Abstract

Much has been written about the ‘reproducibility crisis’ in science, yet there is no agreement about the solution. In practice, there appear to be a number of different factors that have conspired to derail scientific progress, including ‘top down’ influences from institutions, funders, and journals, and ‘bottom up’ problems in how research is conducted. This presentation discusses the range of issues and proposes different measures that can help restore the credibility of science, including some ‘quick fixes’ but also other practices that require longer-term commitment by those who fund and accommodate scientists.

Slides

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Presentation

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Author biography

[Dorothy Bishop](#) (University of Oxford) is based at the Department of Experimental Psychology where she heads an ERC-funded programme of research into cerebral lateralization for language. She is a fellow of the Royal Society, fellow of the British Academy, and fellow of the Academy of Medical Sciences, and has honorary degrees from the University of Lund, the University of Western Australia, the University of Newcastle upon Tyne, and the University of Liège. Her main research interests are in the nature and causes of developmental language difficulties, with a particular focus on psycholinguistics, neurobiology, and genetics. In addition, she has been an advocate for higher standards of methods and transparency in research, and is a founder member of Reproducible Research Oxford. Her book *Uncommon Understanding* won the British Psychological Society’s annual award in 1999, and she has published widely on children’s language disorders.