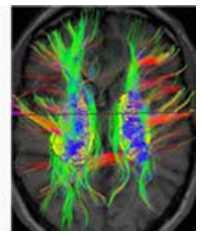


Workshop

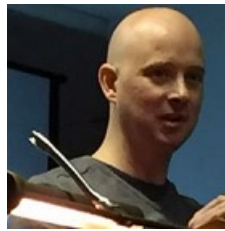
scientifique thématique

Centre de Recherche en Neurosciences de Lyon



INTEGRITY IN SCIENTIFIC RESEARCH: WHERE ARE WE NOW ?

Christophers Chambers, Professor of Cognitive Neurosciences, Cardiff University, UK



The Registered Reports project: A vaccine against research bias?

In 2013 the journal *Cortex* became the first outlet to offer Registered Reports, a format of pre-registered empirical publication in which peer review happens prior to data collection and analysis (see <https://cos.io/rr/>). The philosophy of Registered Reports is that in order to counteract publication bias and various forms of researcher bias (such as p -hacking and hindsight bias), the publishability of a scientific study should be decided by the importance of the research question and rigour of the methodology, and never based on the results of hypothesis testing. In this talk I will provide an update on the progress of Registered Reports at *Cortex* and beyond, including uptake by more than 40 journals. I will focus in particular on some of the emerging challenges of the format as it has expanded, together with insights it has offered into forms of bias within both research and the peer review process. Together with allied initiatives, Registered Reports are helping to reshape the incentive structure of the life sciences to place transparency and reproducibility on par with conventional indicators of scientific quality.