

Introduction to Open Science and Reproducibility

Monday 18 September 2023 10:10 (30 minutes)

In this talk the Helmholtz Open Science Office will focus on digital reproducibility and its importance for open and robust science.

Research is reproducible when it is possible to (independently) recreate the same results from the same data and same code/analysis as used by the original researcher or team of researchers. Reproducibility enhances collaboration and transparency in science and supports reusability of scientific products. This closely links with the open science endeavor towards the cultural change in science and science communication.

To truly enable reuse underlying data sets of research results are published in a FAIR manner for instance. The FAIR principles can be transferred to research software with some adaptations and also define important prerequisites in the context of reproducibility in order to be able to reproduce results. On the other hand, doing actual reproduction attempts (meaning success / failure) need to be an integral part of scholarly communication and should be incentivized accordingly.

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Session Classification: Course Package 1 (HIDA/ HIFIS)