Open Science: benefits for your research

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Practicing Open Science in your research activity

General advantages

Practical benefits

Examples
Open Science, Better Science

“Open Science is the practice of science in such a way that others can collaborate and contribute, where research data, lab notes and other research processes are freely available, under terms that enable reuse, redistribution and reproduction of the research and its underlying data and methods” (FOSTER)

- Enhanced integrity and quality
- Reproducibility
- Higher impact for society
Benefits of practicing Open Science

- Increased citation rate and new metrics

  Open Access citation advantage

  Open Data citation advantage

  Next-generation metrics
  - Citations in media and social media (especially Twitter), blogs…
  - Sharing practices (data, code, protocols, methodologies…)
Benefits of practicing Open Science

- Compliance
- Projects Evaluation

Institutional policies (i.e. EPFL OA Policy)

SNSF & European Commission requirements on Open Access to publications and Open Research Data

EC Horizon Europe:
- Extended mandates on OA and ORD
- Evaluation of the quality of open science practices at the proposal stage (new!)
Benefits of practicing Open Science

- Visibility & accessibility
  - Broader audience (beyond paywalls)
  - Faster dissemination (i.e. via the preprints servers like arXiv, bioarXiv, etc.)
  - Open discussions and community feedback (i.e.: communities like ASAPbio)

- Collaborations
  - Open and innovative communication on various outputs: protocols, methodologies, negative results...
Open Science in practice at EPFL

- EPFL Open Science fund

“There are several cultural and technological barriers that make it hard to openly share some of the research outputs. In order to overcome these barriers and promote open and reproducible research at EPFL through the bottom-up adoption of best practice in research management and knowledge dissemination, the Presidency has decided to dedicate a total of CHF 3 Mio over the period 2019-2021 in the form of an Open Science Fund”
Thank you!

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EPFL Library services for researchers
https://www.epfl.ch/campus/library/services/services-researchers/

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Credits

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