

The background of the slide features a close-up photograph of a white ceramic coffee cup filled with dark coffee, sitting on a wooden desk. In the foreground, a blue spiral-bound notebook is open, with a bright cyan pen resting on its pages. A laptop keyboard is partially visible in the background, slightly out of focus.

Open Science: benefits for your research

Lorenza Salvatori

EPFL Library

Mohammad Beryhi

Laboratory of Photonics
and Quantum
Measurements

**Coffee Lecture
#11**

June 01, 2021



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**
- **Collaborations**

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)

Open and innovative communication on various outputs :
protocols, methodologies, negative results...



■ 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”



Contact

Lorenza Salvatori

lorenza.salvatori@epfl.ch

Publishing Support Library team

publishsupport@epfl.ch

Research Data Management Support Library team

publishsupport@epfl.ch

EPFL Library services for researchers

<https://www.epfl.ch/campus/library/services/services-researchers/>



go.epfl.ch/coffee-lectures

Credits



© 2021 Lorenza Salvatori.

This is an open-access document distributed under the terms of the Creative Commons Attribution License

Images from “[the Noun Project](#)”:

- [Increase](#) by Nicola Brownlie
- [Research](#) by Lagot Design
- [Coffee](#) by suryanaagus