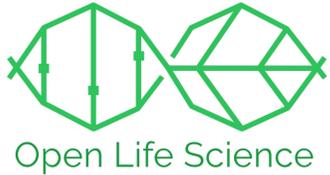


# Open Life Science (OLS): CAPACITY BUILDING IN OPEN SCIENCE IN PEER-LED GLOBAL AND DIVERSE COMMUNITY



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## Introduction

Widening inequality in access to scientific and technological resources is a hindering factor in achieving the United Nations Sustainable Development Goals. **Open science**, by making the research process more *transparent, reproducible, and inclusive*, is being increasingly recognised as an essential contributor to **sustainable research practice**. Indeed, UNESCO has been supporting the shift to open science by consulting multiple stakeholders and issuing the *Recommendation on Open Science* (adopted in November 2021), providing a framework with a universal definition, shared standards, values and principles of open science. Furthermore, in the summer of 2022, UNESCO launched a *Global Call for Best Practices in Open Science*.

New norms and behaviours often arise in bottom-up or *grassroots initiatives*, inciting and complementing top-down policy changes in building the culture change. **Open Life Science (OLS)** is a **community-oriented** non-profit organisation that promotes **open, inclusive and equitable research**. OLS, which was incubated via the Mozilla Open Leaders initiative in 2019, and in 2022, is an internationally recognised **free training and mentoring platform** to gather structured training and mentoring for academics, researchers, undergraduates, and other stakeholders working on participatory projects. For that, OLS provides *resources, peer networks, and expert consulting* to build open projects, establish/lead teams and become **multipliers of open research in their networks**. The essential requirement for joining this free program is a curiosity for open science and collaborative/ team research.

## Different roles of Open Science communities

- Storing Data (**Open Data**)
- Developing source code (**Open Source Software**)
- Designing hardware (**Open Source Hardware**)
- Sharing methods or protocols (**Open Access**)
- Communicating results early (**Preprints**)
- Reviewing papers (**Open Reviews**)
- Transferring skills by training (**Open Education**)
- Collaborating with public (**Citizen Science**)
- Supporting and connecting others in your field (**Scientific Network**)
- Welcoming contributors and maintainers (**Community Building**)

## OLS community

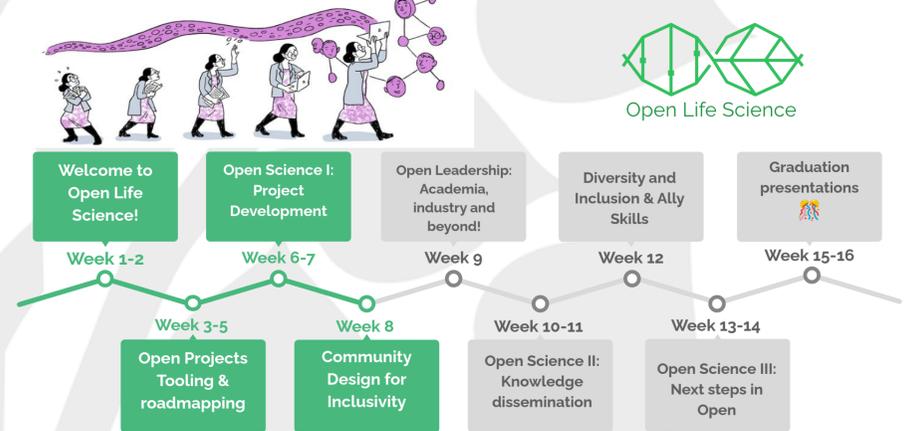


Who OLS really is:

Our 400+ mentors, mentees, facilitators, and expert speakers

## OLS training and mentoring program structure

@malvikasharan, CC-BY 4.0. CC-BY image by The Turing Way and Scriberia



[openlifesci.org/ols-7/schedule](https://openlifesci.org/ols-7/schedule)

## Capacity building journeys for mentees and mentors

Defining journey and process



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Providing guidance and support



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## Sustainable practices by OLS and deliverable actions

Diversity, Equity & Inclusion (DEI)	Inclusion & accessibility practices for facilitating fully remote communication and calls. Watch OLS talk on the OLS-developed structures to support equitable participation <a href="https://www.youtube.com/watch?v=JWfWYHen3q8">https://www.youtube.com/watch?v=JWfWYHen3q8</a>	
Open Educational Resources (OERs)	Recordings of almost 100 hours on YouTube (CC-BY): expert talks on hands-on application of collaborative open science/research practices <a href="https://www.youtube.com/c/OpenLifeSci">https://www.youtube.com/c/OpenLifeSci</a>	
Policy engagement for culture change	OLS global Community response to UNESCO call for best practices in open science - Investing in grassroots open science communities for effective capacity building <a href="https://zenodo.org/record/6841873">https://zenodo.org/record/6841873</a>	

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TLDR [too long, didn't read!]

OLS: capacity building in open science in peer-led global and diverse community

1:1 mentoring	Practicing
Training calls on Open Science Talks from experts Break out discussions	Sharing
Training for mentors	Connecting
OLS-7 is running now OLS-8 applications opens in June	Empowering
Visit our website: <a href="https://openlifesci.org">openlifesci.org</a>	Join individually or as a team

Current and previous funders:

