
[E] Oral | U (Union) | Union

[U-06] Open and FAIR Science: strategies,infrastructures, practices and communities

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Mon. May 26, 2025 10:45 AM - 12:15 PM Exhibition Hall Special Setting (1) (Exhibition Hall 7&8, Makuhari Messe)

Open Science is a new research paradigm, which proved to accelerate scientific innovation. Initiated in the early 2000's by a few communities, Open Science has been shaped through a long maturation through international collaborations, alliances, publications and agreements. Open Science is commonly referring to by the top-down policies making results of publicly-funded research freely available and accessible, as well as being referred to as community-supported bottom-up approaches such as citizen science, crowdfunding, and interdisciplinary research. Other stakeholders (research institutions, funding agencies, scientific editors, etc) are also fostering Open Science by using tools like data management plans, data citation, and the use of persistent identifiers (PIDs). All these approaches envision the transformation of research process and academic research ecosystem that comply with the FAIR (Findable, Accessible, Interoperable, and Reusable) Principles (Wilkinson et al. 2016). Building on the past sessions at the JpGU and AGU conferences since 2018, this session reviews the current broad spectrum of Open Science in international contexts. The session welcomes a wide range of papers and posters covering (but not limited to) open research data, open source licenses, data papers and journals, data repository, ML/AI data preparation and sharing, e-infrastructures and platforms for sharing data, scientific cloud infrastructures, linked data and semantics, FAIR principles, Persistent Identifiers (PID), data management, citizen science, crowdsourcing, crowdfunding, transdisciplinary research, capacity building, international networking, and deployment in earth, space and planetary sciences.

12:05 PM - 12:15 PM

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