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Workshop 3: GSC standards, where to find them and how to use them

Tuesday 30 September 2025 15:45 (2 hours)

Standardised and well annotated metadata are a cornerstone of the FAIR data principles. In this workshop, we will begin with the metadata standards developed and maintained by the Genomic Standards Consortium (GSC), which provides checklists and extensions for a variety of environments and biomes. We will then zoom in on the minimal metadata standards for environmental and biological context proposed by the NFDI4Microbiota consortium, built on the GSC framework. Next, you'll learn how to choose biome-specific ontologies and use the Ontology Lookup Service (OLS) to annotate your metadata, including how to record the value NULL. Finally, we will move to the NMDC Sandbox submission portal (ORCID required), to validate your tables with DataHarmonizer and export compliant, annotated metadata. By the end of the workshop, participants will be able to create reusable metadata annotations that enhance the reach and impact of their data.

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Session Classification: From Lab Bench to Data Bench: Practical Research Data Management for Scientists