

Data Standards & Repositories Qiita MGnify & FAIR — Hands-on

Learn how to make microbiome and metagenomics projects findable, accessible, interoperable and reusable. You will work conceptually with MIxS style metadata, repository data models and validation thinking so that your studies are ready for submission to Qiita, MGnify and related archives using reusable templates and documentation patterns.

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Session 1

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Microbiome Metadata & Standards Foundations

FAIR principles in the microbiome context

findable and accessible data thinking

interoperability and reuse mindset **planning for reuse from day zero**

Microbiome metadata standards overview

sample, sequencing and environment fields

mandatory vs optional information ideas **controlled terms and ontologies mindset**

Project level documentation and identifiers thinking

study titles, abstracts and keywords **persistent identifiers conceptually** **versioning and change tracking mindset**

Session 2

Fee: Rs 11800 Apply Now

Repositories: Qiita, MGnify & Companion Portals

Repository roles in the microbiome ecosystem

archival vs analysis oriented portals **raw reads vs processed profiles** **links to primary sequence archives**

Conceptual data models in Qiita and MGnify style portals

studies, samples and runs thinking **analysis objects and pipelines view** **public vs controlled access notions**

Matching project types to repository expectations

amplicon vs shotgun projects **clinical vs environmental cohorts** **longitudinal vs cross sectional layouts**

Session 3

Fee: Rs 14800 Apply Now

Submission Workflows & Validation Thinking

Structuring metadata and manifests for submission

sample and run tables conceptually **file naming and path conventions** **linking IDs across tables and files**

Thinking in terms of templates, checklists and audits

spreadsheet templates mindset **internal completeness checklists** **simple pre submission audit ideas**

Validation concepts and error handling strategies

common field and type mismatches **missing and inconsistent values thinking** **iterative refinement of submission packages**

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: FAIR-Compliant Submission Package

End to end packaging of a microbiome study for a repository

Theory plus guided practical style walkthrough

Project documentation and methods text concepts

readme and overview text patterns **succinct methods and pipeline descriptions** **referencing code and environments at a high level**

Deliverables: metadata sheet, manifest & submission checklist draft

tidy sample and run metadata table **file manifest with descriptions** **reusable FAIR readiness checklist outline**