

Regulatory Data Submission — ENA / GEO / SRA

Master compliant submission of genomics datasets to ENA, GEO and SRA with standards driven metadata, validation, accessioning, transfer automation and auditable reports.

Regulatory Data Submission (ENA / GEO / SRA)

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Session 1

Fee: Rs 6300 [Apply Now](#)

Standards, Accessions & Compliance

Repository landscape, policy and ethics: consent and data access

Theory

Standards and checklists: MINSEQE, MIxS, BioProject/BioSample models

[MINSEQE](#) [MIxS](#) [BioProject](#) [BioSample](#)

Accession types, identifiers and file formats for raw and processed data

[FASTQ/BAM](#) [SOFT/MINiML](#) [TSV/XML](#) [MD5](#)

Session 2

Fee: Rs 8400 Apply Now

Metadata Templates & Validation

Create and validate ENA Webin templates for study, sample, experiment and run

Webin-CLI **ENA validator** **ebi-ena-cli**

GEO metadata sheets, SOFT/MINiML packing and series/sample linking

GEOparse **GEOmetadb** **checklists**

Controlled vocabularies, ORCID, grant IDs and data use restrictions

OBO terms **ORCID** **DUO**

Session 3

Fee: Rs 11200 Apply Now

ENA, GEO, SRA Submission Workflows

Raw data transfer with Aspera or FTP and checksum verification

Aspera **lftp/FTP** **md5sum/sha256sum**

SRA Toolkit based packing and submission helpers

SRA Toolkit **vdb-validate** **prefetch/fastq-dump**

Error handling, retractions, updates and linking to publications

helpdesk tickets **accession merges** **PMID/DOI links**

Session 4

Fee: Rs 14000 Apply Now

Mini Capstone: Submit & Report

Design an end to end packaging and submission workflow with provenance

Theory

Automate prepare → validate → transfer → submit → confirm → report

Snakemake **Conda/Mamba** **Quarto/JupyterLab**

Deliver accession list, checksums, logs and submission ready documentation

pandas **CSV/TSV exports** **PDF bundle**