

Taxonomic Profiling — ASVs, OTUs & Classifiers — Hands-on

Learn how to convert cleaned amplicon or shotgun reads into reliable taxonomic profiles. You will understand ASV vs OTU workflows, choose and curate reference databases, configure classifiers, and compute alpha or beta diversity with figures suitable for manuscripts and reports.

Taxonomic Profiling — ASVs, OTUs & Classifiers

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Session 1

Fee: Rs 8800 [Apply Now](#)

ASVs, OTUs & Amplicon Inference

ASV vs OTU concepts and implications

[denoised sequence variants](#) [clustering based OTUs](#)
[resolution vs robustness](#)

Amplicon inference workflows end to end

[error models and denoising](#) [chimera removal](#)
[concepts](#) [paired read merging logic](#)

Feature tables and sequence objects

feature count matrices **representative sequences**
export formats for tools

Session 2

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Reference Databases & Classifiers

Curation of reference databases and taxonomies

SILVA and RDP style resources **domain specific**
reference sets **versioning and provenance**

Classifier models and parameter choices

naive Bayes style classifiers **alignment based**
assignment **confidence thresholds and cutoffs**

Validation with mocks and benchmarks

mock community evaluation **precision and recall**
thinking **common misclassification patterns**

Session 3

Fee: Rs 14800 Apply Now

Diversity Metrics & Community Structure

Alpha diversity indices and rarefaction mindset

richness and Shannon indices **Simpson and evenness**
metrics **rarefaction and coverage thinking**

Beta diversity and ordination plots

Bray Curtis and Jaccard **UniFrac style distances**
PCoA and NMDS visualizations

Community summaries for stakeholders

stacked bar and heat maps **core microbiome**

summaries **export ready tables and figures**

Session 4

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Mini Capstone: Taxonomic Profiles to Figures

From feature table to publication style plots

Theory plus hands on

Reporting taxonomic results with metadata context

group comparisons and contrasts **effect sizes and uncertainty** **narratives for collaborators**

Deliverables: profiles, plots and methods block

exported abundance tables **figure panels and legends** **methods and parameter appendix**