

Virome & Bacteriophage Informatics — Hands-on

Learn end-to-end virome and bacteriophage analytics from raw reads/assemblies to high-confidence viral catalogs and host linkage. You'll detect and curate viral contigs with state-of-the-art tools, evaluate genome quality (MIUViG), infer taxonomy and gene-sharing networks, connect phages to hosts, and build publication-ready figures and dashboards for clinical, environmental and industrial applications.

Virome & Bacteriophage Informatics

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Session 1

Fee: Rs 8800 [Apply Now](#)

Virome Concepts, Intake & QC

Virome study types & enrichments

[VLP vs total DNA/RNA](#) [size filters & enzymes](#) [long-read support \(overview\)](#)

Data intake & quality control

[adapter/quality trimming](#) [host/prokaryote depletion](#)
[low-biomass safeguards](#)

Assembly considerations

[metaSPAdes/MEGAHIT](#) [contig length/coverage filters](#)

circularity detection

Session 2

Fee: Rs 11800 Apply Now

Viral Discovery & Quality (MIUViG)

Detection & curation tools

VirSorter2 / VIBRANT **VirFinder / DeepVirFinder**
PHASTER (prophage)

Quality & completeness

CheckV & MIUViG tiers **contamination/chimerism**
flags **termini & circularization**

Annotation & catalogs

DRAM-v / Prokka **IMG/VR & RefSeq Viral** **dedup/derep**
strategies

Session 3

Fee: Rs 14800 Apply Now

Taxonomy, Networks & Host Linking

Taxonomy & gene-sharing networks

vContact2 clusters **GTDB/ICTV context**
phylogenomics (markers)

Host prediction & linkage

CRISPR spacer matches **WIsH / VirHostMatcher**
tRNA/oligo patterns; read mapping

Prophage discovery & dynamics

PhiSpy / PHASTER **induction signals** **link to MAGs**

Session 4

Fee: Rs 18800 Apply Now

Ecology, Reporting & Dashboards

Virome ecology & statistics

alpha/beta diversity (viral) **compositional DA**
temporal/spatial patterns

Visualization & dashboards

network plots & chord **heatmaps & stacked bars**
Quarto reports

Packaging & dissemination

catalogs + metadata **reproducible exports** **SOPs &**
templates