

## ClinVar, COSMIC, gnomAD & Knowledgebase Integration

## — Hands-on

Learn how to use ClinVar, COSMIC, gnomAD and related knowledgebases effectively in clinical genomics. This module focuses on efficient variant lookup, evidence aggregation, concordance checks and how to feed curated knowledge into ACMG/AMP style interpretation, oncology actionability and report-ready summaries.

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gnomAD Session 3 — Knowledgebase Linking & Harmonisation Session 4 — Mini Capstone:

Knowledgebase-Driven Case Review

Session 1

Fee: Rs 8800 Apply Now

Clinical Variant Databases & Roles

Landscape of clinical and research variant resources

ClinVar COSMIC gnomAD & related population sets

What each database is designed for (high level)

clinical submissions and assertions somatic and

tumour focussed resources population frequency

baselines

How variant databases support ACMG/AMP & oncology workflows

evidence lookups for criteria actionability hints
(high level) data provenance mindset

Session 2

Fee: Rs 11800 Apply Now

Working with ClinVar, COSMIC & gnomAD

Efficient variant lookup patterns in ClinVar

accessions vs coordinates clinical significance fields review status snapshot

COSMIC for somatic and tumour context

tumour types and histology tags recurrent vs rare

events snapshot linking to actionability frameworks

(high level)

gnomAD for population frequency context

per population allele frequencies coverage and filters snapshot rare vs common signal mindset

Session 3

Fee: Rs 14800 Apply Now

Knowledgebase Linking & Harmonisation

Pulling evidence together across databases

aligning variant identifiers cross checking assertions flagging discordant entries

Connecting to clinical knowledgebases (high level)

disease focussed resources snapshot oncology actionability resources snapshot linking to guidelines and trials (conceptual)

NTHRYS OPC PVT LTD ClinVar, COSMIC, gnomAD & Knowledgebase Integration — Handson

From raw database hits to interpretable evidence blocks

summarising key fields noting conflicts and caveats readiness for ACMG/AMP tables

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: Knowledgebase-Driven Case Review

Work through a small variant list using databases

Theory + Practical

Build a variant evidence summary table from ClinVar/COSMIC/gnomAD

conflict notes ready for ACMG/AMP use

Draft a short narrative on database-driven evidence

plain language explanation limitations and data gaps future re review triggers