

PGx Panels — Genotyping, NGS & Reporting — Hands-on

Learn how pharmacogenomic panels are designed, implemented and interpreted in practice. You will connect clinical indications to panel content, understand genotyping and NGS workflows, review quality metrics and translate panel outputs into structured reports that support real prescribing decisions.

PGx Panels — Genotyping, NGS and Reporting

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Session 1

Fee: Rs 8800 [Apply Now](#)

PGx Panel Indications & Design

Clinical indications and use-cases for PGx panels

psychiatry / depression **cardiology / thrombosis**
oncology toxicity risk

Panel composition and gene content selection

core vs extended panels **CYP, transporter, HLA**
genes **population relevance**

Assay platforms and basic validation concepts

single-gene tests vs panels arrays vs NGS analytical / clinical validity

Session 2

Fee: Rs 11800 Apply Now

Genotyping & NGS Workflows

Genotyping and NGS lab workflows for PGx panels

sample and DNA quality checks library prep / amplicon panels run metrics overview

From raw data to variants (concept pipeline)

FASTQ to BAM to VCF coverage, depth and read quality SNVs, small indels, CNV signals

Quality metrics and troubleshooting signals

call rate thresholds no-call regions flagging samples for repeat

Session 3

Fee: Rs 14800 Apply Now

PGx Pipelines, Annotation & Alleles

PGx bioinformatics pipeline overview

alignment and variant calling variant filters and flags pipeline documentation

Annotation resources for PGx variants

PharmGKB (conceptual use) gnomAD frequencies ClinVar significance

From variants to star-alleles and phenotypes

diplotype translation tables activity scores and phenotype bins basis for downstream guideline use

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: Panel Report & Case

Walkthrough of a sample PGx panel output

review gene list and calls **identify actionable variants** **link to phenotype categories**

Structuring a concise PGx panel report

summary findings section **gene-drug tables**
comments and caveats

Deliverables: slide deck and one-page panel summary

PDF / PPTX **templated layout** **ready for future PGx labs**