



Neha Venkatesh

Variant Scientist | Genome Analyst | Research Analyst | Genetic and Genomic NGS Analyst

DHA-licensed Genomics Precision Diagnostic Specialist with seven years of experience in next-generation sequencing variant analysis and clinical interpretation within high-throughput diagnostic laboratories. Skilled in whole genome sequencing, whole exome sequencing, carrier screening, germline oncology, and fetal genomics. Proficient in SNV and CNV analysis, ACMG/AMP variant classification, genotype-phenotype correlation, pedigree interpretation, and the generation of clinically actionable reports. Experienced in maintaining analytical accuracy, quality standards, and turnaround-time targets in accredited environments, with active participation in CAP Proficiency Testing and GenQA programs.



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Dubai, U.A.E



[LinkedIn](#)

CORE COMPETENCIES

Clinical Variant Interpretation

Diagnostic Reporting and Documentation

Standard Operating Procedure Development

Cross-Functional Team Collaboration

Mentorship and Team Leadership

Reproductive and Oncology Genomics

WORK EXPERIENCE

Genomics Precision Diagnostic Specialist

Igenomix (Vitrolife Group)

2023–2026

Dubai, UAE

Achievements/Tasks

- Perform comprehensive NGS data analysis for clinical diagnostic and reproductive genetics cases.
- Interpret and report variants in accordance with ACMG/AMP guidelines.
- Participate in GenQA and CAP Proficiency Testing to support continuous quality assurance.
- Collaborate with bioinformatics teams to evaluate and optimize NGS analysis pipelines and improve variant prioritization workflows.
- Work with global teams within Vitrolife Group to standardize and optimize genomic workflows.
- Maintain analytical accuracy and compliance with accredited laboratory standards.

Senior Genome Analyst

Yoda Lifeline Diagnostics

2022–2023

India

Achievements/Tasks

- Led end-to-end genome analysis, variant annotation, and result interpretation for exome and genome cases.
- Developed standard operating procedures for variant curation and reporting in compliance with CAP standards.
- Reviewed and interpreted complex genomic findings to support clinical decision-making.
- Ensured consistency and accuracy in variant classification and reporting.
- Coordinated with laboratory and clinical teams to meet turnaround-time targets.
- Contributed to quality control initiatives and process improvement within the genomics division.

Senior Genome Analyst / Team Lead

MedGenome Labs

2019–2022

India

Achievements/Tasks

- Supervised and mentored a team of genome analysts delivering high-throughput NGS data analysis for clinical diagnostics.
- Oversaw the analysis and interpretation of complex family-based, rare disease, and challenging clinical cases to ensure robust and clinically relevant findings.
- Managed team performance, turnaround times, and quality control.
- Drove analyst training and maintained consistency in clinical reporting.
- Resolved a backlog of more than 300 extended turnaround-time cases within two months, accelerating case closure and improving reporting efficiency.
- Collaborated with cross-functional teams to streamline variant curation and reporting workflows.

EDUCATION

Master of Science in Genetics

University of Mysore, India | GPA: 8.8 | 2017–2019

Bachelor of Science in Genetics, Biochemistry, and Biotechnology

Bangalore University, India | GPA: 8.5 | 2014–2017

RESEARCH AND PUBLICATION

Summer Research Internship – Computational Biology

Manipal Centre for Natural Sciences, MAHE, India | June–July 2018

Publication: Using Ancestry Informative Markers (AIMs) to Detect Fine Structures Within Gorilla Populations

Frontiers in Genetics, 2019 | PMID: 30800141

MSc Dissertation

University of Mysore, India | 2019

Dysregulation by Recurrently Mutated Chromosomal Translocation in Immunoglobulin H Loci in Plasma Cell Myeloma

Literature-based pathway analysis

LICENSURE

DHA Professional License

Allied Health Technician – Medical Laboratory

License Number: 23071131-001

PROFESSIONAL SKILLS

- NGS-Based Variant Analysis and Interpretation (WES and WGS)
- ACMG/AMP Variant Classification
- SNV, Indel, and CNV Analysis
- Clinical Exome and Genome Reporting
- Genotype-Phenotype Correlation
- Pedigree and Inheritance Analysis
- Carrier Screening and Reproductive Genomics
- Germline Oncology and Fetal Genomics
- Quality Assurance, CAP, and GenQA Compliance
- Bioinformatics Workflow and Pipeline Optimization

REFERENCES

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