

THE GENOMICS DIGEST



**MAY
2026
EDITION**

**VOLUME 3
ISSUE 5**



EDITOR'S NOTE

Welcome to the May 2026 Edition of The Genomic Digest!

May was yet another engaging month at Genotypic Technology, centered around focused scientific interaction through a webinar and an industrial visit. These engagements continued to reflect our commitment to knowledge sharing, practical learning, and meaningful connection with the scientific community.

Through our webinar session, researchers and professionals had the opportunity to explore emerging genomics approaches and applications through expert-led discussion and exchange. The month also included an industrial visit that offered students practical exposure to genomics workflows and real-world research environments, helping bridge academic understanding with industry practice.

In this edition of The Genomic Digest, we bring together the highlights from May 2026—capturing the conversations, interactions, and learning experiences that continue to support the growing genomics ecosystem.

Happy Reading!

THE GENOMICS DIGEST

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Intelligent Tertiary Analysis with **SemGenome**

On 7th May 2026, Genotypic Technology hosted a focused webinar titled “From Variant Call to Clinical Diagnosis: Intelligent Tertiary Analysis with SemGenome.”

The session addressed one of the most significant gaps in next-generation sequencing workflows—variant interpretation—and explored how intelligent tertiary analysis can support faster and more effective clinical decision-making.

Through the webinar, participants were introduced to approaches for improving interpretation speed, aligning analysis with ACMG classification frameworks, and integrating explainable AI into genomics workflows. A live demonstration of Whole Exome Sequencing (WES) and Whole Genome Sequencing (WGS) analysis further highlighted how streamlined interpretation pipelines can help transform sequencing data into clinically actionable insights. The session brought together researchers and professionals interested in advancing clinical genomics through scalable, AI-assisted analysis approaches.



Industrial Visit at Genotypic Technology

On 16th May 2026, Genotypic Technology hosted B.Sc. students from REVA University for an industrial visit at our facility.

The visit provided students with practical exposure to genomics workflows, sequencing technologies, and applied research environments, offering a closer look at how genomics operates beyond the classroom. Through guided interactions and laboratory exposure, students gained insights into how sequencing data is generated, processed, and interpreted in professional research settings.

The session served as an opportunity to bridge academic learning with industry practice, helping students better understand the applications and impact of genomics in modern life sciences research.

VENUE: DR. BABU RAJENDRA PRASAD
INTERNATIONAL CONVENTION CENTRE, BENGALURU

MAIN CONFERENCE: SEPT 2-3 2026
PRE-CONFERENCE WORKSHOP: 1ST SEPT, 2026

SECURE YOUR SPOT AT GIC 2026

Early Bird Ends on 31st May, 2026



Pre-Conference workshop 1

GENOMICS INDIA CONFERENCE 2026



AI Driven NGS Data Analysis

By Genotypic Technology

This workshop offers a comprehensive introduction to AI-driven Next Generation Sequencing (NGS) data analysis, covering everything from NGS data formats and de novo assembly to transcriptomics, small RNA, single-cell and long-read genome analysis. Participants will also explore key applications including epigenetics, microbiome studies, and genomics in biopharma and vaccine development.



DATE

1st Sept
2026

TIME

9 AM - 5 PM

LOCATION

Dr. Babu Rajendra Prasad International
Convention Centre, Bengaluru

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FIND MORE INFO AT

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Pre-Conference workshop 2

GENOMICS INDIA CONFERENCE 2026



Metagenomics for Clinical and Environmental Applications By TIGS

This workshop provides practical insights into metagenomics workflows—from sampling, data handling, and sequencing platforms to metagenome assembly and biodiversity analysis. Participants will also explore key applications such as clinical metagenomics for AMR and pathogen detection, One Health perspectives, and the integration of AI/ML in biological data analysis, offering a comprehensive view of metagenomics in both clinical and environmental research.



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Pre-Conference workshop 3

GENOMICS INDIA CONFERENCE 2026



AI driven Multiomics

By IISc

Explore how AI is reshaping multiomics through the integrated analysis of genomics, transcriptomics, proteomics, and metabolomics data. This workshop at IISc introduces core concepts, practical tools, and real-world applications across precision medicine, agriculture, and systems biology, equipping researchers and professionals with actionable insights and a deeper understanding of this rapidly evolving field.



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Pre-Conference workshop 4

GENOMICS INDIA CONFERENCE 2026



Phenomics and Hologenomics

By UAS

This hands-on workshop will introduce participants to the role of phenomics in advancing modern agriculture. The session will cover high-throughput phenotyping approaches used to measure plant traits at scale and how these data integrate with genomics to accelerate crop improvement. Participants will gain insights into applications such as trait discovery, precision breeding, stress tolerance studies, and the development of climate-resilient crops, highlighting how phenomics is transforming agricultural research and breeding programs.



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Pre-Conference workshop 5

GENOMICS INDIA CONFERENCE 2026



Statistical Genomics

By NCBS

This workshop introduces the statistical and data science foundations of modern genomics, covering approaches from classical descriptive statistics to emerging AI-driven methods. Participants will learn how quantitative techniques are used to analyse genomic datasets from bulk and single-cell sequencing studies to understand biological processes in health and disease. Key analytical methods such as linear regression, clustering, PCA and UMAP will be discussed, with emphasis on their use in exploring and visualizing high-dimensional genomic data. The workshop will also provide an overview of AI-based approaches for genomic data interpretation and predictions.



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