

THE GENOMICS DIGEST



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EDITOR'S NOTE

Welcome to the July–September 2026 Special Edition of The Genomics Digest!

The past three months have been an eventful period at Genotypic Technology, marked by scientific engagement, knowledge sharing, technological advancement, and continued interaction with the genomics community. From expert-led sessions and training programmes to industry engagements and collaborative initiatives, the quarter reflects our ongoing efforts to connect knowledge with application and support the evolving needs of the scientific community.

The highlight of this period was the **Genomics India Conference 2026**, which brought together researchers, scientists, clinicians, academicians, industry professionals, and students to exchange ideas and explore the rapidly evolving landscape of genomics. Alongside the conference, a diverse range of scientific activities and engagements further contributed to conversations around emerging technologies, genomics applications, and the future of data-driven biology.

In this special three-month edition of The Genomics Digest, we bring together the key highlights from July, August, and September 2026—capturing the events, interactions, technological developments, and conversations that shaped this period at Genotypic Technology.

We hope this edition offers you an insightful look at our recent journey and keeps you connected with the developments shaping genomics research and innovation.

Happy Reading!

THE GENOMICS DIGEST

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Three-Day Hands-on Workshop at **KISTI, Mahatma Gandhi University, Kottayam**

Genotypic Technology was a key knowledge partner for a three-day hands-on workshop on Oxford Nanopore sequencing and data analysis, held at the Convergence Academia Complex, Mahatma Gandhi University (MGU), Kottayam, in association with the Centre of Excellence Kerala Institute of Science, Technology and Innovation (CoE-KISTI) from July 1 - 3, 2026.

Day 1 opened with an introduction to Oxford Nanopore sequencing delivered by Lamuk Zaveri, Field Application Scientist, Oxford Nanopore Technologies, followed by an intensive hands-on library preparation session led by Genotypic Technology. Day 2 moved into live sequencing operations and bioinformatics workflows. Participants were guided through library loading onto the PromethION P2 Solo flow cell, flow cell quality assessment, and real-time monitoring using Oxford Nanopore's MinKNOW software, followed by a bioinformatics session, covering data quality assessment, read processing, alignment strategies, and variant analysis workflows.



Three-Day Hands-on Workshop at **KISTI, Mahatma Gandhi University, Kottayam**

Day 3 gave participants the chance to independently perform flow cell loading, followed by a demonstration on flow cell washing and maintenance, and an advanced bioinformatics session on end-to-end nanopore data analysis pipelines and command-line workflows.

The workshop concluded with a valedictory ceremony, a participant feedback session, and certificate distribution. Genotypic Technology thanked CoE-KISTI, Mahatma Gandhi University, all speakers, and participants for making the workshop a success — and reaffirmed its role as a proud channel partner for Oxford Nanopore Technologies in India, offering end-to end support from experimental design and training through to data analysis and workflow optimisation.



NGS Workshop at the 11th Annual BGCI Conference, Central University of Punjab

Genotypic Technology conducted an NGS workshop at the 11th Annual International Conference of the Board of Genetic Counseling India (BGCI), held at the Central University of Punjab, from July 3 - 6, 2026 delivering hands-on genomics training to researchers and academicians.

The session introduced participants to the fundamentals and practical workflows of Oxford Nanopore sequencing, followed by a live sequencing demonstration and a walkthrough of the MinKNOW software. The session was followed by a showcase of Genotypic's GTnRICH panels and a live demonstration of Commander NGS AI, highlighting how AI-driven bioinformatics enables faster, more intuitive NGS data analysis.

The workshop gave participants a complete view of the NGS workflow — from sequencing through to intelligent data interpretation — equipping them to confidently adopt these technologies in their own research.



Webinar on NGS Analysis, Reinvented: **How AI is Changing Genomics**

On 30th July, Genotypic Technology hosted a webinar exploring how Commander NGS AI is transforming genomic and transcriptomic data analysis through intelligent, automated workflows and faster turnaround for complex datasets.

The session introduced a new paradigm in NGS data analysis, where AI-powered agents streamline traditionally manual bioinformatics workflows. The webinar demonstrated how automated pipelines can generate actionable insights, structured reports, and publication-ready outputs with minimal manual intervention. Participants gained insights into how modern genomics workflows can be simplified through integrated analysis approaches. The webinar provided researchers with a practical understanding of how automated analysis platforms can reduce time spent on routine data processing and allow greater focus on scientific discovery.



Genotypic Technology Town Hall Meeting 2026

Genotypic Technology brought the team together for its Town Hall Meeting, an opportunity to reflect on the year's progress and look ahead as one team. Dr. Raja Mugasimangalam discussed the company's vision and mission. Addressing the team, he delved into the increasing role of Artificial Intelligence in genomics, particularly its potential to drive breakthroughs in genomic research and diagnostics. He underscored the importance of staying at the forefront of technological advancements and how AI is revolutionizing our approach to data analysis, sequencing, and personalized medicine.

The session emphasized the company's commitment to innovation and fostering a collaborative environment for groundbreaking discoveries. Dr. Raja's talk left the team feeling inspired and motivated to contribute to Genotypic's mission of advancing scientific progress through cutting-edge genomics technologies.



GENOMICS INDIA CONFERENCE 2026

2 - 3 September, 2026 | Pre-Conference Workshop: 1st September, 2026
Dr. Babu Rajendra Prasad International Convention Centre, Bengaluru



Genomics India Conference 2026: The Largest Genomics Festival of India

Genotypic Technology organized the 6th Genomics India Conference (GIC 2026) alongside the University of Agricultural Sciences, Bangalore (UAS); the Indian Institute of Science (IISc); the National Centre for Biological Sciences (NCBS); and the Tata Institute for Genetics and Society (TIGS). GIC 2026 kicked off in style with an inspiring inauguration ceremony and felicitation of the leaders shaping India's genomics journey.

Over three days, GIC 2026 brought together researchers, clinicians, industry leaders, and students from India and around the globe for a packed programme of workshops, keynotes, panel discussions, and poster sessions exploring the journey from genome to bioeconomy.



Day 1 | Sept 1st

Pre-Conference Workshops & Inauguration

The day opened with five pre-conference workshops on cutting-edge genomics themes: AI-Driven Multi-Omics by IISc, AI Driven NGS Data Analysis by Genotypic Technology, Phenomics and Hologenomics in Modern Agriculture by UAS Bangalore, Metagenomics for Clinical and Environmental Applications by TIGS, and Statistical Genomics by NCBS. Running alongside these were three industry-sponsored workshops: Meril Genomics on its Multi-Omics Bioinformatics Workbench, Agilent on Long-Read Sequencing using Target Enrichment, and the 10x Genomics-GeneX Workshop on Single Cell and Spatial Applications.

The day concluded with the conference inauguration in the Main Hall. Dr Raja Mugasimangalam, Founder & CEO, Genotypic Technology, delivered the welcome address, Prof Samir Brahmachari delivered the Patron's Address, followed by talks from Dr Beena Pillai (RGCB), Dr Rajesh Gokhale (Secretary, DBT), and Dr Weibin Liu on the Human Genome Project II. The evening closed with a felicitation function, the announcement of Genstride, and a vote of thanks.







Day 2 | Sept 2nd

Main Conference

The day opened with a keynote from Dr Michael Snyder, Stanford University, on transforming healthcare with deep data, remote monitoring, and AI, chaired by Prof Samir K Brahmachari. This was followed by the Genome Biology – 1 session, chaired by Dr Anuranjan Anand (JNCASR), and a panel discussion on translating research findings, moderated by Dr Vijay Tiwari, followed by Poster Session 1 over lunch.

The afternoon featured the Health Tech session, chaired by Dr Ashis Kumar Das (BITS Pilani), followed by a panel discussion on the economics of medical genomics and multiomics for health management, moderated by Dr Sudha Rao, Genotypic Technology, bringing together voices from academia, diagnostics, and industry. The day closed with the announcement of the Indian Seaweed Program, followed by Poster Session 2, giving researchers and students another round of face-to-face engagement with the day's presenters.







Day 3 | Sept 3rd Main Conference

The morning ran two parallel tracks: Genome Biology – 2, chaired by Dr Shantanu Sengupta (CSIR-IGIB), and Agri-genomics in Hall 1, chaired by Dr Sharan Angadi (ATPBR Foundation). This was followed by the Omics Tech Updates session, chaired by Sanjeev Kamte, Genotypic Technology, featuring industry speakers from Oxford Nanopore Technologies, New England Biolabs, SomaLogic, 10x Genomics, Meril Genomics, PacBio, and Salus BioMed, followed by Poster Session 3 over lunch.

The afternoon opened with a panel discussion on Genomics Education in the AI Era, moderated by Prof Samir K Brahmachari, followed by the AI in Health and Genomics session, chaired by Dr Debnath Pal (IISc). The conference closed with a keynote from Prof Charles Cantor, Boston University, on "The Human Genome Project after 40 years – How We Got Here and Where Do We Go Next," followed by the valedictory session with closing remarks from Dr Rakesh Mishra (TIGS) and Dr Sudha Rao (Genotypic Technology).









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