

# Genomics India

12 - 14 August, 2025  
JN Tata Auditorium, IISc, Bengaluru

Theme  
The Indian Genomics Journey

## PROGRAM SCHEDULE

In association with

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Co-Organized By

Knowledge Partner







12 - 14 August, 2025  
JN Tata Auditorium,  
IISc, Bengaluru

## India's Premier Genomics Conference

Join us at GenomicsIndia Conference, GIC2025 as we unlock genomics potential for a more sustainable future. The three-day genomics conference is set to be a dynamic gathering, uniting key players from diverse sectors, including industry, academia, and research. This event is designed to serve as a knowledge-sharing hub, offering a platform for insightful discussions on the latest trends and breakthroughs in the field of genomics.

Throughout the conference, attendees can anticipate a deep dive into cutting-edge research that showcases the forefront of genomics technologies. The primary focus will be on disseminating groundbreaking discoveries and innovations in this rapidly evolving domain.

GIC 2025 promises an unparalleled opportunity for engagement & networking. Attendees will have the chance to connect with industry luminaries, visionaries from the academic sphere, as well as representatives from both startups & established profit and non-profit organizations including Mincorns, Soonicorn, Unicorns, Decacorns & Hectocorns within the biotech sector.

**Indian Institute of Science, Genotypic Technology, Dhitiomics Technologies and QTLomics Technologies looks forward to welcoming you to this Gateway of "The Indian Genomics Journey"**



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# 12<sup>th</sup> AUGUST PROGRAM



## Hall A

NGS Analysis & Genome Informatics Program  
8:30 AM - 5:30 PM



## Hall B -Mini Symposium

**Biology in AI Era - A paradigm shift**

Upskilling researcher Investigators for the AI World  
2:00 PM - 5:00 PM



## Hall C - Mini Symposium

Think Tank: Workshops by Genomics & Allied  
Technology Firms (Industry-led sessions)  
2:00 PM - 5:00 PM





GIC 2025 - NGS PROGRAM (HALL A)		
12 <sup>TH</sup> AUG	TOPIC	SPEAKER
8:00 AM	Registration - collect the badges at registration desk	
8:30 - 9:00 AM	Next-Generation Sequencing Analysis in the AI world	Dr Raja Mugasimangalam, Genotypic Technology
9:15 - 10:00 AM	Basics of NGS Data Analysis and NGS data formats	Dr Meenal Vyas, Genotypic Technology
10:00 - 10:45 AM	Basics of NGS Data Analysis Denovo assembly and Gene prediction	Mr Nihar Bachan Das, Genotypic Technology
10:45 - 11:00 AM	Tea Break	
10.00 - 11:45 AM	Unfolding an Epigenome with the revolutionary native molecule Nanopore Sequencing Technology	Dr Meenal Vyas, Genotypic Technology
11:45 - 12:15 AM	Insights into Transcriptome and Small RNA data analysis	
12:15 - 12:45 PM	The Long and Short of sequencing	
12:45 - 1:15 PM	Unveiling Genomic Complexity: Insights into Precision Alignment, Variant Calling And Variant Annotations	
1:15 - 2:00 PM	Lunch	
2:00 - 2:45 PM	NGS For Biopharma and Vaccine Industry	Dr Sudha Rao, Genotypic Technology
2:45- 3:30 PM	Alignment to Variant Calling and Reporting	Mr Nihar Bachan Das, Genotypic Technology
3:30 - 4:00 PM	Insights Into The Microbiome Analysis Using NGS Data	Ms Garima Sanoria, Genotypic Technology
4:00 - 4:30 PM	Quiz/test	
4:30 - 5:15 PM	Commander.ai NGS analysis using agentic ai	Genotypic's product development team
4:45 - 5:00 PM	NGSA Workshop Prize Distribution	
5:00 - 5:30 PM	High Tea	
5:30 PM	INAUGURATION IN MAIN HALL	
	Welcome address: Genotypic and IISc	
	Inaugural dignitaries: Prof. G. Rangarajan - Director, IISc Prof Samir Brahmachari, Founder Director CSIR - IGIB Prof Debnath Pal, CDS, IISc	
	Patron's Address: Prof Samir Brahmachari, Founder Director CSIR - IGIB	
	GIC Evolution: Dr Raja Mugasimangalam, Founder & CEO Genotypic Technology	
	Keynote Address by Chief Guest: Dr Rajesh S Gokhale, Secretary for Department of Biotechnology (DBT) Government of India	
	Vote of thanks: Dr Sudha Rao, Co Founder and Executive Director, Genotypic Technology	



<div>GIC 2025: HALL A: MINI SYMPOSIUM: BIOLOGY IN AI ERA - A PARADIGM SHIFT</div> <div>Upskilling researcher Investigators for the AI World</div> <div>Dr Raja, Dr Debnath Pal, Samir Dhanrajani, Vicky</div>			
12 <sup>TH</sup> AUG	TOPIC	HALL	
2:00 - 4:00 PM	<b>Biology in AI Era - A paradigm shift</b> Upskilling researcher Investigators for the AI World	Hall B	
4:00 - 5:00 PM	<b>Panel discussion: How to use AI in research</b>	Main Hall	
<div>GIC 2025: HALL THINK TANK</div> <div>WORKSHOPS BY GENOMICS &amp; ALLIED TECHNOLOGY FIRMS (INDUSTRY-LED SESSIONS)</div> <div>Dr Raja, Aiyaz</div>			
12 <sup>TH</sup> AUG	TOPIC	SPEAKER	
2:00 - 5:00 PM	<b>Think Tank: Workshops by Genomics &amp; Allied Technology Firms (Industry-led sessions)</b>	Hall C	





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# 13<sup>th</sup> AUGUST PROGRAM

→ Main Hall  
9:00 AM - 7:00 PM

→ Hall A  
11:00 AM - 6:00 PM



13 <sup>th</sup> AUGUST	MAIN HALL	HALL A
9:30- 11:00 AM	Session 1- GenomeIndia Project	XXXXXXXXXXXX
	Chair: Prof Samir K Brahmachari Founder Director CSIR - IGIB, Former Director General CSIR	
	Dr K Thangaraj, CSIR - CCMB	
	GenomeIndia: Charting Precision Diagnostics, Rare-Disease Burden, and Pharmacogenomics in India Dr Mohammed Faruq, CSIR - IGIB	
	Dr Bratati Kahali, CBR - IISc	
	Understanding the genetic architecture of non-syndromic autism spectrum disorder in India Dr Harsh Sheth, FRIGE Institute of Human Genetics	
11:00 - 11:15 AM	Tech Talk 1: Oxford Nanopore Technologies - Dr Ahmed Tayoun, Al Jalila Children Hospital Part of Dubai Health Corporation, Dubai UAE	
11:15 - 11:45 AM	Tea Break & Networking	
11:45 - 1:20 PM	Session 2 - Genomeinformatics - Insights into its database and applications	Session 3 - Microbial, Bacterial & Fungal Genomics
	Chair: Chirag Jain, IISc	Chair: TBA
	GenomeIndia: From Population Diversity to Disease Burden in Mainland India Dr Chandrika Bhattacharyya, BRIC - NIBMG	Dr SivaKumar, NIRT Chennai
	Dr Debnath Pal, IISc	From soil to society – evolutionary dynamics and antimicrobial resistance of enteric bacteria in the environment Dr Niyaz Ahmed, UoH
	GenomeKlinik- A portal with Web-GMSECT for Structural Variation Extraction & Annotation Dr Abhishek, Abioteqnet	Understanding the Mechanism of Drug Resistance in M. tuberculosis Upon Exposure to Newly Designed Drug Molecules Dr Ruchi Jain, BITS Hyderabad
	Dr Prashanth S.R, EQ.ai	Functional genomics of human fungal pathogens Dr Kaustuv Sanyal, Bose Institute
	How to make data available for public Dr Richi Mahajan, Department of Biotechnology	Exploring the Anthropogenic Footprints on the Antibiotic Resistome Diversity in Mangrove Ecosystems of India Dr Ranjith Kumavath, Pondicherry University
1:20 - 1:35 PM	Tech Talk 2: 10X Genomics	Tech Talk 3: New England Biolabs Dr Ashwani Kumar Kamal
1:35 - 2:30 PM	Lunch + Poster & Networking	





13 <sup>TH</sup> AUGUST	MAIN HALL	HALL A
2:30 - 4:10 PM	Session - 4 Wellness and Longetivity Genomics	Session - 5 Multiomics session
	Chair: Dr Ajay Potluri	Chair: Dr Dharmalingam - AMRF
	Charting India’s Genetic and Phenotypic Variability: The Phenome India Initiative Dr Shantanu Sengupta, CSIR - IGIB	Dr Utpal Tatu, IISc
	Dr Mithali Mukherjee, IIT Jodhpur	Structure-guided medical genomics Dr Lipi Thukral, CSIR - IGIB
	Integrating Omics & AI for Ayurveda 3.0 Dr Bala Pesala, Ayur.ai	Dr Debasis Dash, DBT - ILS
	Climate Change and Epigenome: Unravelling Impacts on Maternal-Fetal Health and Longevity Dr Srimonta Gayen, IISc	-
	Tech Talk 4: Genome Valley/GeneFirst Dr Thomas Dunwell	Tech Talk 5: Somalogic Dr Caroline Chan
4:10 - 4:30 PM	Tea Break, Poster Presentation & Networking	
4:30 - 6:10 PM	Session 6 - Special Initiatives (Pangenomes, Metagenomics, Immunology)	Session 7 - Special Session: Digital Health and AI
	Chair: Dr Royanna Singh	Chair: Dr Sharad Sharma, iSpirit
	Dr Uma Ramkrishna, NCBS	Dr Raghu Dharmaraju, ARTPARK
	Dr Asif Mohammed, ICGEB	Dr Siddharatha Bhattacharya, NATHealth
	Supramolecular attack particles as delivery vehicles: Bridging Immunology and Genomic medicine Dr Ashwin Kumar Jainarayanan, Stanford and Oxford	-
	Early DNA Methylation Predictors of Type 2 Diabetes Mellitus in Normoglycemic Adults: Insights from a Six-Year Prospective Cohort Study Dr Abdul Jaleel, RGCB	-
	Tech Talk 6: Spinco	Tech Talk 7: Algorithmic Biologics Dr Manoj Gopalkrishnan
6:15 - 7:00 PM	Public Lecture - Pallava Bagla, Photo-journalist & Science Editor, NDTV (New Delhi Television)	XXXXXXXXXXXX





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# 14<sup>th</sup> AUGUST PROGRAM

→ Main Hall  
9:00 AM - 6:30 PM

→ Hall A  
9:30 AM - 5:00 PM

14 <sup>TH</sup> AUGUST	MAIN HALL	HALL A
9:00 - 10:45 AM	Session 8- Omics For Deeper Biological Insights	Session 9 - Plant Genomics (Rice, Cotton, etc.)
	Chair: TBA	Chair: TBA
	Dr Gaurav Ahuja - IITD	Dr Jogeswar Panigrahi - Berhampur University
	<i>Spatial transcriptomic analysis reveals age-related alterations in the spatial organization of cell types within the mouse olfactory bulb</i> Dr Sanjeev Galande - SNU	Dr Mukesh Jain - JNU
	Dr Sushmitha T J - NIOT	<i>Semantification of Climate Data using AI over NLP</i> Dr Gitanjali Yadav - NIPGR
	<i>Transcriptionally Active Microbes (TAMs)-Resident Microbes-Disease Severity: A Tale of Tales</i> Dr Rajesh Pandey CSIR-IGIB	<i>Genomics Assisted Plant Breeding</i> Dr Sunil Kumar - Corteva
10:45 - 11:15 AM	Tea Break	
11:15 - 12:00 PM	Keynote Talk: Dr Piero Carninci - RIKEN Center for Integrative Medical Sciences, Japan	XXXXXXXXXXXX
12:00- 1:00 PM	Session 10 - Panel: Precision Oncology - clinical genomics, indian variations observed and implications	Session 11 - Animal and Bacterial Genomics
	Chair: Dr Sudha Rao	Chair: TBA
	Dr Mayur Parihar - TMC Kolkata	<i>Theileria annulata Mimics Cancer by Hijacking Host ERK1/2 Phosphorylation Networks: Multi-Omics Reveals Therapeutic Targets</i> Dr Paresh Sharma - NIAB
	Dr B S Ajaikumar - HCG	Dr Indranil Chattopadhyay - CUTN
	Dr Ramesh Hariharan - Strand	
	Dr S Mahalingam - IIT Madras	
	Dr Parima Desai - IQVIA	
1:00 - 2:00PM	Lunch + Poster & Networking	



14 <sup>TH</sup> AUGUST	MAIN HALL	HALL A
2:00 TO 3:30 PM	Session 12 - Big Data Analytics and AI (Ownership - Dr Pal)	Session 13 - Sequence to functions
	Chair: TBA	Chair: Dr Lakshmi B R
	Dr Sanchit Mishra - Intel Lab, Bengaluru	Dr Rakesh Mishra - TIGS
	Dr Debarka Sengupta - IIITD	WGCNA uncovers molecular markers of insulin resistance in children with type 1 diabetes Dr Satyajeet Khare - Symbiosis
	Models, Networks & AI: A Trifecta Empowering Big Data Analytics in (Meta) Genomics Dr Karthik Raman - IITM	DNA Repeat Instability in Neuropsychiatric Illness Dr Meera Purushottam - NIMHANS
	Dr Ishaan Gupta - IIT Delhi	Soma-to-germline miRNA inheritance and intergenerational stress resilience Dr Meetali Singh - IISc
3:30 TO 4:00 PM	Tea Break	
4:00 TO 5:30 PM	Session 14 - RNA Biology	XXXXXXXXXXXX
	Chair: Dr Sanjeev Galande - SNU	
	RNA methylome of clinical Plasmodial isolates Dr Ashis Das - BITS Pilani	
	Dr Dasaradhi Palakodeti - inStem	
	The secrets of the dark genome: noncoding RNA component Dr Kumaravel Somasundaram - IISc	
5:30 TO 6:30 PM	Valedictory Address: Dr L S Sashidhara, NCBS Director Parting thoughts: Dr Sudha, Co Founder and Executive Director, Genotypic Technology Awards Distribution	

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