

Genomics India Conference 2023



2-3 February 2023 | NIMHANS Convention Centre, Bangalore, India

Program

Day 1 (02 Feb. 2023)

08:30 – 09:30

Registration

Lobby

09:30 – 10:15

Inaugural Session

Main Auditorium

Welcome Address	:	Dr Raja Mugasimangalam	Founder & CEO, Genotypic Technology
About the Conference:		Dr Sudha Rao	Exec. Director, Genotypic Technology
Chief Guest	:	Dr Pratima Murthy	Director, NIMHANS, India
On stage	:	Prof Samir Brahmachari	Founder Director, CSIR-IGIB, India
	:	Prof Krishnamoorthy Kannan	Founder, KK Biotech, India Former VC, Nagaland Central University
	:	Prof Doron Lancet	Professor, Weizmann Institute of Science, Israel

10:15 – 10:30

TEA BREAK

02nd Feb.

MAIN AUDITORIUM

HALL 2

10:30 – 12:00

Session 1: Inherited Diseases: Genomics for Rare Disease diagnostics

Session 2: Better Crops with Genomics-based breeding

Session Chair



Prof Doron Lancet

Professor, Dept. Molecular Genetics,
Weizmann Institute of Science, Israel



Prof Anuranjan Anand

Professor, Jawaharlal Nehru Centre For
Advanced Scientific Research, India



Dr Meera Purushottam

Senior Scientific Officer, Molecular
Genetics lab, NIMHANS, India



Dr Pradeep Vaideeswar

Professor Department of Pathology,
Seth GS Medical College, India



Dr Kashyap Krishnasamy

VP, Genomics & BD
Avesthagen Limited

Session Chair



Dr Jagadish Mittur

President, IBioM
Director, Rico Winery, India



Dr Sunil Kumar

Lead Data Scientist
Corteva Agriscience, India



Dr Yasodha Ramaswamy

Scientist G, Institute of Forest Genetics
and Tree Breeding, India



Dr Satish Kanuganti

Molecular Breeding Lead
Rallis India

02nd Feb.

MAIN AUDITORIUM

HALL 2

12:00 – 13:00

Round Table 1: Has Genomics delivered its promise for healthcare?

Round Table 2: Bio- entrepreneurship Simplified

Moderator



Dr Sudha Rao

Founder & Director – Dhiti Omics
Exec. Director – Genotypic Technology



Dr Vinod Scaria

Principal Scientist
CSIR-IGIB, India



Dr Hima Challa

Co-founder and Director
K & H Personalized Medicine Clinic, India



Dr G. Velmurugan

Scientist, Chemomicrobiomics Laboratory,
KMCH Research Foundation, India



Dr Jayanthi S Shastri

Former Lab Director
Kasturba hospital for ID, India



Dr Nalini Atchayaram

Professor of Neurology
NIMHANS, India

Moderator



Dr Raja Mugasimangalam

Founder & CEO – Genotypic & QTLomics
Chairman – iBioM, India



Prof Samir Brahmachari

Founder Director, CSIR-IGIB, India



Dr Subrahmanyam Vangala

Co-Founder & Director
Reagene Innovations Pvt Ltd, India



Dr Manjiri Bakre

Founder and CEO
OncoStem Diagnostics Pvt Ltd, India



Mr Bipin Pradeep Kumar

Co-Founder,
Iom Bioworks, India



Dr Natalia Demidenko

Science & Marketing
Skygen LLC, Russia

13:00 – 14:00

LUNCH

02nd Feb.

MAIN AUDITORIUM

HALL 2

14:00 – 15:30

Session 3: Predictive Health & AI

Session 4: Technology Session

Session Chair



Prof Samir Brahmachari
Founder Director, CSIR-IGIB, India



Dr Anurag Agarwal
Dean, BioSciences and Health Research
Ashoka University, India



Dr Manoj Gopalkrishnan
Chief Executive Officer
Algorithmic Biologics, India



Dr Prashanth Athri
Founder & Director, CubeBio AI
Head, SciTech – Multiomics, RIL
Professor (on sabbatical), PES University

Session Chair



Dr Raja Mugasimangalam
Founder & CEO – Genotypic & QTLomics
Chairman – iBioM, India



Dr Bhupinder Hundle
Director of Distribution Sales
Oxford Nanopore, UK



Dr Rahul Solanki
Application Scientist
Agilent (India) Pvt. Ltd, India



Dr Anuj Gupta
Business Manager,
New England Biolabs, India



Dr Ravi Kumar Chilukoti
Head – India Technical Support & PM
MGI Tech co., Ltd.

15:30 – 16:00

TEA BREAK

02nd Feb.

MAIN AUDITORIUM

HALL 2

16:00 – 17:30

Session 5: Microbiomes and Epigenomics

Session 6: Soil Health, Micronutrients and Plant Protection

Session Chair



Dr Vinod Scaria

Principal Scientist
CSIR-IGIB, India



Prof Niyaz Ahmed FRSC, FAAM

Professor
University of Hyderabad, India



Prof Vani Brahmachari

Former Professor - ACBR
University of Delhi, India



Dr Yogesh Shouche

Professor
Azim Premji University, India

Session Chair



Dr Sharan Angadi

COO, IBioM,
Director at ATPBR, India



Dr M.S. Rao

Former Principal Scientist
IIHR, Govt. of India, India



Dr Sushil Middha

Associate Professor, Maharani Lakshmi
Ammani Women's College, India



Dr Bindu Roy

Principal Scientist
Rubber Research Institute of India

17:30 – 18:30

KEYNOTE ADDRESS – MAIN AUDITORIUM



Prof Krishnamoorthy Kannan

Founder, KK Biotech, India
Former VC, Nagaland Central University



Dr Harold Varmus

1989 Nobel prize winner for Medicine
Co-chair – WHO Science Council



Dr Anna Laura Ross

Unit Head - Science Division
World Health Organization

18:30 – 19:15

POSTER SESSION

19:30 onwards

DINNER

Day 2 (03 Feb. 2023)

03rd Feb.

MAIN AUDITORIUM

HALL 2

09:30 – 11:00

Session 1: Precision Medicine & Diagnostics

Session 2: Infectious Disease

Session Chair



Dr Sudha Rao

Founder & Director – Dhiti Omics
Exec. Director – Genotypic Technology



Prof Partha Majumdar

Distinguished Professor, National Institute
of Biomedical Genomics, India



Dr BS Ajaikumar

Executive Chairman
Healthcare Global (HCG), India



Prof Doron Lancet

Professor, Dept. Molecular Genetics,
Weizmann Institute of Science, Israel

Session Chair



Dr Ashis Das

Senior Professor, Department of
Biological Sciences, BITS-Pilani, India



Dr Stella Chenet

Instituto de Investigaciones
Universidad Ricardo Palma, Peru



Dr Praveen K Bharti

Scientist E, ICMR-National Institute of
Malaria Research, India



Dr Madhusmita Das

Research Scientist · Schieffelin Institute
of Health, India

11:00 – 11:15

TEA

03rd Feb.

MAIN AUDITORIUM

HALL 2

11:15 – 13:15

Session 3: Genomics in Research

Session 4: Understanding Cells to Ecosystems

Session Chair



Prof S Karutha Pandian

Former Senior Professor
Alagappa University, Tamil Nadu



Dr Mohammed Faruq

Scientist
CSIR-IGIB, India



Prof Kapaettu Satyamoorthy

Professor, School of Life Sciences,
MAHE, Manipal, India



Dr Sundaresan Periasamy

Research Scientist, Aravind Medical
Research Foundation, India

Session Chair



Dr Balamurugan

Professor & Head, Department of
Biotechnology, Alagappa University, India



Dr Dasaradhi Palakodeti

Researcher,
INSTEM Bengaluru India



Dr Rakesh Mishra

Director, Tata Institute for Genetics and
Society, India



Prof Annapurna Vyakarnam

Professor- King's College London,
Adjunct Professor – SJRI, India



Prof Sanjeev Galande

Dean, School of Natural Sciences,
Shiv Nadar University, India

13:15 – 14:15

LUNCH

03rd Feb.

MAIN AUDITORIUM

HALL 2

14:15 – 15:45

Session 5: Genomics for Clinical Research

Session 6: Biopharma, Vaccines and Diagnostics

Session Chair



Prof Sanjeev Galande

Dean, School of Natural Sciences,
Shiv Nadar University, India



Dr Rob Freishtat MD, MPH

Interim Director, CGMR, Children's
National Hospital, USA



Dr T.L. Srinath

CEO & Director,
GenoPhe Biotech Pvt. Ltd, India



Dr Harsh Sheth

Assistant Professor, Institute of Human
Genetics, FRIGE House, India

Session Chair



Dr Subrahmanyam Vangala

Co-Founder & Director
Reagene Innovations Pvt Ltd, India



Dr Chakshusmathi Ghadiyaram

Head, Pre-clinical R&D
Mynvax Pvt. Ltd., India



Prof Anand C Damodaran

Professor of Pathology, SRM Medical
College Hospital, SRMIST, India



Dr K. Anand Kumar

Managing Director, Indian
Immunologicals Ltd, India

15:45 – 16:00

TEA BREAK

03rd Feb.

MAIN AUDITORIUM

HALL 2

16:00 – 17:30

SESSION 7: Surveillance and Pandemics

SESSION 8: Applied Genomics

Session Chair



Dr Rakesh Mishra

Director, Tata Institute for Genetics and Society, India



Dr Vinod Scaria

Principal Scientist
CSIR-IGIB, India



Dr Krishna Khairnar

Scientist & Head Environmental Virology,
CSIR-NEERI, India



Dr Praveen KS

Senior Program Officer,
PATH, South Asia Hub

Session Chair



Prof Kapaettu Satyamoorthy

Professor, School of Life Sciences,
MAHE, Manipal, India



Dr Michael Sagner

Director, European Society of
Preventive Medicine



Dr Punit Prasad

Scientist – E
Institute of Lifesciences, India



Dr Ashis Das

Senior Professor, Department of
Biological Sciences, BITS-Pilani, India

17:30 – 18:45

KEYNOTE ADDRESS – MAIN AUDITORIUM

Keynote Chair



Prof Samir Brahmachari

Founder Director, CSIR-IGIB, India



Dr Eric D Green

Director, National Human Genome
Research Institute (NHGRI), USA



Dr Umesh Shaligram

Executive Director,
Serum Institute of India (SII), India

18:45 – 19:30

Awards and Closing ceremony

NGS Analytics and Genome Informatics Program (Hall 3)

02 nd Feb.	TOPIC	SPEAKER
10:30 – 11:15	Next-Generation Sequencing (NGS) Basics	
	Sequencing Technologies, NGS File Format, Command Line Computing for Genomics, NGS Data Analytics, Genomics Data Storage, Fast Parallel Computing using GPU Machines	 Dr Raja Mugasimangalam Founder & CEO – Genotypic & QTLomics Chairman – iBioM, India
18:30 - 19:15	Insights into The Microbiome Analysis Using NGS Data	
19:15 – 20:00	16S rRNA shotgun sequencing data analysis and Visualization Whole Genome Metagenome - Assembly, Gene prediction and Visualization, Commander Demonstration	 Dr Prasanna Koti Associate Principal Scientist Genotypic Technology, India

03 rd Feb.	TOPIC	SPEAKER
08:30 - 09:30	Insights into Transcriptome and Small RNA data analysis	 <p>Ms Garima Sanoria Scientist, Genome Informatics Genotypic Technology, India</p>
11:15 - 12:15	Insights into Whole Genome Sequencing: Alignment to Variant Calling and Reporting	 <p>Mr Nihar Bachan Das Scientist, Genome Informatics Genotypic Technology, India</p>
12:15 - 12:45	Making sense of variants and mutations; FastQ to BAM to VCF to SNP table --> annotations	 <p>Dr Chellappa Gopalakrishnan Founder and CEO, Genomatics Pvt. Ltd., India</p>
12:45 - 13:15	Advanced computational approaches for chromosome-scale haplotype-resolved genomics	 <p>Dr Shilpa Garg Senior Researcher, Novo Nordisk Genomics Sustainable Solutions, Denmark</p>
14:30 - 15:00	Long Read Sequencing for whole genome assembly and scaffolding	 <p>Dr Zuwei Qian Director, Marketing, Asia Pacific Pacific Biosciences</p>
15:00 – 15:30	Long Read Sequencing for whole genome assembly and scaffolding	 <p>Dr Khi Pin, Chua Senior Bioinformatics Scientist, Pacific Biosciences</p>
15:30 – 15:45	NGSA Test (Closure of NGSA)	