

SCIENTIFIC PROGRAM

20th January, 2025 (First Day)

8.45 AM -
10.00 AM

Inauguration and high tea

Chief Guest: Prof. Vinod K. Paul, Member, NITI Aayog, Government of India

SESSION 1

Genome editing/ Gene Therapy

	No.	Name of the Speaker	Venue	Chairpersons
10.00 AM - 10.50 AM		Dr. Debojyoti Chakraborty , IGIB, New Delhi	Hall A	Prof. Alok Srivastava, CMC, Vellore
	OP1	Navigating the translational route of therapeutic gene editing in resource limited settings.		
	OP2	Prof. Ramachandran Shaji , CMC, Vellore Lentiviral gene therapy vectors for haemoglobinopathies.		

SESSION 2

Panel Discussion on "Genetics Research in India: Quo vadis?"

10.50 AM - 12.05 PM	<p>Panellists: Prof. RNK Bamezai, Former VC, Shri Mata Vaishno Devi University Topic: Current challenges for genetic research in India and way forward.</p> <p>Dr. Giriraj Chandak, Sir JC Bose Fellow, CCMB, Hyderabad Topic: Phenomic complexities of diseases transcend genomic complexity: newer strategies for fishing in troubled waters!</p> <p>Dr. K. Thangaraj, Former Director, CDFD, Hyderabad Topic: The Hype, The Hope, The Promise and The Reality of Genome India initiative: Where India stands now?</p> <p>Prof. Alok Srivastava, CMC, Vellore Topic: Developing technologies for gene therapy in India and their translation to products.</p> <p>Dr. Vedam Ramprasad, CEO, Medgenome Topic: Mushrooming genome testing Industry in India: urgent need for constituting a regulatory body and policies.</p> <p>Dr. Anuradha Acharya, CEO, Mapmygenome, Hyderabad Topic: Pharmacogenomics vis-à-vis Precision Medicine: How to surmount the bumpy roads?</p>	Hall A	<p>Moderators: Prof. Binay Panda, JNU, New Delhi</p> <p>Dr. Moinak Banerjee, RGCB, Thiruvananthapuram</p>
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		Prof. B.K. Thelma , National Science Chair, University of Delhi, Delhi Topic: Biobanking and ethical issues in research: Can India replicate the UK biobank facility?	Hall A	
CONCURRENT SESSIONS 3 Theme: Neurogenetics, genetics of ageing and neurodegeneration				
12.10 PM - 1.15 PM	OP3	Prof. Divya Mehta , Queensland University of Technology, Australia Biopsychosocial drivers of the stress response in different populations.	Hall A	Prof. Prabha Chandra, Dean, Behavioural Sciences, NIMHANS, Bengaluru Prof. Pramod. K. Pal, NIMHANS, Bengaluru
	OP4	Dr. Manu Sharma , University of Tubingen, Germany Genomic peaks in Parkinson's Disease: Paving the way for precision medicine.		
	OP5	Dr. Mohammed Faruq , IGIB, New Delhi Conventional screening and Whole Exome Sequencing in Progressive Ataxias: Unravelling Genetic Complexity.		
12.10 PM - 1.15 PM	OP6	Dr. Bratati Kahali , Centre for Brain Research, Indian Institute of Science, Bengaluru Deciphering genetic architecture for complex disease traits: Insights from the Indian and other world populations.	Hall B	Prof. Anuranjan Anand, JNCASR, Bengaluru, Prof. K. Satyamoorthy, Research Director, SDM University, Karnataka.
	OP7	Dr. Santhosh Girirajan , Pennsylvania State University, USA Untangling genetic interactions in complex disease.		
	OP8	Prof. Udai Bhan Pandey , Pittsburgh School of Medicine, USA Geminopathies: mining for GEMs in rare genetic disorders.		
FREE COMMUNICATION SESSION 1 (10 mins oral presentations for young researchers) Theme: Genetics of Brain Disorders				
12.10 PM - 1.15 PM	ST1	Dr. Bhagyalakshmi Shankarappa , NIMHANS, Bengaluru Spatiotemporal Epigenetic variation in postmortem brain tissue samples from an Indian Population.	Hall C	

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12.10 PM – 1.15 PM	ST2	Ms. Kalyani Karunakaran , NIMHANS, Bengaluru Temporal gene expression signatures across neurodevelopment: a transdiagnostic analysis of bipolar disorder, schizophrenia, autism, and epilepsy.	Hall C	Prof. G. Venkatasubramanian, NIMHANS, Bengaluru Dr. Moinak Banerjee, RGCB, Thiruvanathapuram
		Dr. Surya G. Krishnan , CHG, Bengaluru Plexiform Neurofibromatosis: Early experience from a Multispecialty Clinic at a single centre.		
	ST4	Ms. Smriti Jha , RIMS, Ranchi Association study of blood based and genetic markers predictive of cognitive decline post stroke.		
	ST5	Dr. Pradip Paul , NIMHANS, Bengaluru Deciphering cellular mechanisms of bipolar disorder and lithium response.		
1.15 PM – 2.00 PM	Lunch Break			
2.00 PM – 3.00 PM		Plenary Talk I: Prof. Aravinda Chakravarti , New York School of Medicine, USA Diversity of Mutations in Human Disease.	Hall A	Prof. Samir K. Brahmachari, Former Director General, Council of Scientific and Industrial Research (CSIR), Government of India. Dr. K. Thangaraj K., Former Director, CDFD, Hyderabad
SESSION 4 Theme: Translational Genomics and Precision Medicine				
3.10 PM – 4.15 PM	OP9	Prof. Aurora Pujol , Bellvitge Biomedical Research Institute, Spain Improving genomic diagnosis and therapies for brain metabolic disorders.	Hall A	Prof. Sumita Danda, CMC, Vellore Prof. Reena Gulati, JIPMER, Pondicherry
	OP10	Dr. Prerana Jha , Director-Lab Operations, Bencos Healthcare Solutions Pvt. Ltd., Mumbai, Maharashtra. Exome or Genome? Decoding the way forward in Genomic Medicine.		

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	OP11	Prof. Manisha Madkaikar , Director, ICMR-NIIH, Mumbai		
		Resolving the Unknown: Advancing Precision Diagnostics and Therapeutics in Inborn Errors of Immunity.		
SESSION 5 Theme: Metagenomics and Human Health				
3.10 PM - 4.15 PM	OP12	Prof. Niranjana Nagarajan , Genome Institute of Singapore, Singapore	Hall B	Prof. Yogesh Shouche, Director, SKAN Research Foundation, Bangalore Prof. Arindam Maitra, NIBMG, Kalyani
	OP13	Mr. Mainak Chakraborty , Senior Solutions Architect, Amazon Web Services. Revolutionize Genomics Research with AI on AWS cloud.		
	OP14	Dr. Varun Aggarwala , Jio Institute, Mumbai Antimicrobial Resistance Reservoir in the Gut: Baseline, Dynamics, and Reset through microbiota engineering.		
FREE COMMUNICATION SESSION 2 (10 mins oral presentations for young researchers) Theme: Genetics of complex disorders				
3.10 PM - 4.15 PM	ST6	Dr. Sushil Selvarajan , CMC, Vellore Impact of cancer and therapy on epigenetic landscapes of normal cells: Describing a novel endpoint in survivorship.	Hall C	Prof. Raghunath Chatterjee, ISI, Kolkata Prof. Biren Banerjee, Silicon University Bhubaneswar.
	ST7	Ms. Khadija Sana Hafeez , Turin, Italy. Multi-Omics Integration in Pleural Mesothelioma Reveals Key Molecular Signatures.		
	ST8	Dr. Hafeeda Kunhabdulla , Yenepoya University, Mangalore Molecular profiling of Oral Squamous Cell Carcinoma patients of south Indian population.		

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	ST9	Mrs. Megha Radhakrishnan , BHU, Varanasi Molecular pathology of cervical carcinogenesis: Role of telomere and THOR in tumor initiation and progression.		
	ST10	Ms. Uma Dharshini Karuppiah , University of Madras, Chennai Transcriptome analysis reveals potential biomarkers in Head and Neck squamous cell Carcinoma.		
4.15 PM – 4.35 PM	Tea Break			
4.35 PM – 5.25 PM	Dr. L.D. Sanghvi Oration of ISHG		Hall A	Prof. B. K. Thelma Dr. K. Thangaraj
5.30 PM – 6.30 PM	Plenary Talk-2: Prof. Eric Green , Director, NIHGR, USA The Forefront of Genomics.		Hall A	Prof. Pratima Murthy, Director, NIMHANS, Bengaluru
6.30 PM – 7.30 PM	Poster Presentation			
6.30 PM – 8.00 PM	ISHG EC MEETING		Boardroom, Convention Centre	
7.30 PM – 8.30 PM	QUIZ COMPETITION		Hall A	
8.30 PM – 9.30 PM	Dinner			