

# SCIENTIFIC PROGRAM

## 21<sup>st</sup> January, 2025 (Second Day)

8.00 AM-8.45AM				Breakfast			
8.45 AM-9.35 AM		<b>Plenary Talk-3:</b> <b>Prof. Henry Houlden,</b> University College of London, UK  Using new technology to diagnose unsolved neurological disorders.		Hall A		<b>Chairpersons:</b> Prof. Yasha TC, Dean, Clinical Neuroscience, NIMHANS, Bengaluru  Prof. Atchayaram Nalini, NIMHANS, Bengaluru	
<b>CONCURRENT SESSIONS 6</b> <b>Theme: Genetics of Complex Disorders/Epigenetics/Gene-environment Interactions</b>							
9.40 AM - 10.45 AM		OP15 <b>Prof. Amit Dutt,</b> University of Delhi, New Delhi  Genetic insights into lung cancer resistance to targeted therapy.		Hall A		Prof. Sagar Sengupta, Director, NIBMG, Kalyani  Prof. Annapoorni Rangarajan, Indian Institute of Science, Bengaluru	
		OP16 <b>Prof. Sanjeev Shukla,</b> IISER, Bhopal  Epigenetic reprogramming under hypoxia: The role of CTCF and PRMT5 in breast cancer progression.					
		OP17 <b>Prof. Dil-Afroze,</b> Sher-i-Kashmir Institute of Medical Sciences, J & K  Navigating the <i>Helicobacter pylori</i> driven immune landscape from Inflammation to gastric carcinogenesis.					
9.40 AM - 10.45 AM		OP18 <b>Prof. Chittaranjan Yajnik,</b> KEM Hospital, Pune  Life course evolution of diabetes in Indians: developmental origins of health and disease.		Hall B		Dr. Subhabrata Chakrabarti, LV Prasad Eye Institute, Hyderabad  Prof. Dwaipayan Bharadwaj, JNU, New Delhi	
		OP19 <b>Prof. Raghunath Chatterjee,</b> ISI, Kolkata  Compensatory role of interleukin-17A in regulating the keratinocyte cell proliferation.					
		OP20 <b>Dr. Kiran Polavarapu,</b> CHEO Research Institute, Canada.  Solving the unsolved in neuromuscular diseases: Genomic re-analysis through international collaborations using RDCConnect GPAP.					

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10.45 AM –  
11.05 AM

Tea break and visit to corporate stalls

## SESSION 6 ISHG Young Scientist Presentation

11.05 PM – 1.20 PM	YSA1	<b>Mr. Sohail Rafik Mansuri</b> , CCMB, Hyderabad Epigenome-wide association study of childhood cognitive function identifies inflammation as a key differentially regulated pathway.	Hall A	Prof. B.K. Thelma, President, ISHG  Dr. Inderjeet Kaur, Secretary, ISHG
	YSA2	<b>Ms. Debakreeta Ghosh</b> , ISI, Kolkata Unraveling the Role of the lncRNA RP11-215G15.5 in Psoriasis Pathogenesis.		
	YSA3	<b>Mr. Bipin Raj Shekhar</b> , NIRRCH, Mumbai CNTNAP2 gene deletion confers risk to schizophrenia through dendritic spine abnormalities evaluated using hiPSCs derived neuron.		
	YSA4	<b>Mr. Saikat Dey</b> , NIMHANS, Bengaluru Genetic modulation of systemic and neuro-inflammation in progressive Supranuclear Palsy.		
	YSA5	<b>Ms. Debolina Saha</b> , NIRRCH, Mumbai Developing a patient-friendly diagnostic method for mitochondrial disorders: correlation of genetic variants with multi-complex deficiencies.		
	YSA6	<b>Ms. Kavya V.P.</b> , NIMHANS, Bengaluru Transgenerational effect of maternal stress on the behavioral outcomes of children: the role of maternal immune activation and epigenetic modulation.		
	YSA7	<b>Ms. Smita Saha</b> , CDFD, Hyderabad Mutations in HYPK cause a novel neurodevelopmental disorder by impairing neuronal proteostasis and autophagy.		

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	YSA8	<p><b>Ms. Pratibha Banerjee</b>, CUP, Bathinda.</p> <p>Gliadin-induced pathogenic differential transcriptome signature of Gut mucosa in celiac disease and its mitigation through a gluten-free dietary component using a patient-derived organoid model.</p>		
	YSA9	<p><b>Ms. Swati Singh</b>, Kasturba Medical College, Manipal</p> <p>Biallelic variants in CCN2 underlie an autosomal recessive kyphomelic dysplasia.</p>		
<b>1.20 PM – 2.10 PM</b>	<b>Lunch Break</b>			
2.10 PM – 3.00 PM	<p><b>Plenary talk-4:</b>  <b>Prof. Jian Jun Liu</b>, Director, Genome Institute of Singapore, Singapore</p> <p>Genetics of leprosy susceptibility and treatment outcome.</p>		Hall A	<p><b>Chairpersons:</b>            Prof. Kunal Ray, Ramakrishna Mission Vivekananda Educational &amp; Research Institute, Kolkata</p>
<b>SESSION 7 Emerging Scientist Award</b>				
3.00 PM – 4.20 PM	<p><b>Dr. Aditi Chandra</b>, Saha Institute of Nuclear Physics, Kolkata</p> <p>A multi-enhancer hub controls dosage of Ets1 gene expression and protects from allergic inflammation.</p>		Hall A	<p>Dr. G.R. Chandak, CCMB, Hyderabad</p> <p>Prof. S. Ganesh, IIT, Kanpur</p>
	<p><b>Dr. Ashitha S.N.M.</b>, NIMHANS, Bengaluru</p> <p>Neurodevelopmental dysregulation underpins pathogenesis of severe mental illnesses.</p>			
	<p><b>Dr. Jeru Manoj Manuel</b>, uMaster, Canada</p> <p>Decoding the transcriptome usage &amp; Alternative Splicing signature (AS) during neuronal differentiation: Deep gene regulatory approach.</p>			
	<p><b>Dr. Priyanka Upadhyai</b>, Kasturba Medical College, Mangalore</p> <p>A tale of two cellular processes: cilia-autophagy crosstalk in bone development and the pathogenesis of skeletal dysplasias.</p>			

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		<b>Dr. Sabyasachi Senapati</b> , Central University of Punjab, Bhatinda		
		A cryptic tale besides HLA- Associations in Celiac Disease		
<b>4.20 PM - 4.45 PM</b>	<b>Tea Break and Visit to Corporate Stalls</b>			
<b>SESSION 8</b>				
<b>Theme: Genetic landscape and treatment avenues for rare genetic disorders</b>				
4.45 PM - 5.45 PM	OP21	<b>Dr. Ashwin Dalal</b> , CDFD, Hyderabad Indian Genomics Landscape: Achievements and opportunities.	Hall A	Prof. Akella Radha Rama Devi, Rainbow Children's Hospital, Hyderabad  Prof. Reena Das, PGIMER, Chandigarh
	OP22	<b>Dr Meenakshi Bhat</b> , Director and Senior Geneticist, Centre for Human Genetics, Bengaluru MPS I – calibrating treatment outcome & India experience.		
	OP23	<b>Prof. Anju Shukla</b> , Kasturba Medical College, Manipal, Karnataka Initiating multi-center efforts for addressing rare disease challenges in India.		
<b>SESSION 9</b>				
<b>Theme: Genetics of malignancies</b>				
4.45 PM - 5.45 PM	OP24	<b>Prof. Ellora Sen</b> , NBRC, Manesar Metabolic-Epigenetic shifts in Gliomas: Role of IDH1 mutation.	Hall B	Prof. Gopeshwar Narayan, BHU, Varanasi  Prof. Sunita Singh, BHU, Varanasi.
	OP25	<b>Prof. Hirofumi Nakaoka</b> , Sasaki Institute, Japan Clonal selection and diversification of somatic mutations in normal human endometrial epithelium.		
	OP26	<b>Prof. Pranay Tanwar</b> , AIIMS, New Delhi Decoding the hedgehog signaling pathway in acute myeloid leukemia: Biomarkers and therapeutic perspectives.		

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## SESSION 10

### Theme: Advances in Genomic Technologies and Clinical Awareness

5.45 PM - 6.25 PM	<p><b>Dr. Jim Zhang</b>, Senior Field Application Scientist at Twist Biosciences.</p> <p>Maximizing Sensitivity in Liquid Biopsy: Advances in twist cfDNA library preparation and custom panel solutions.</p> <p><b>Dr. Ravi Kumar Chilukoti</b>, Head – India &amp; SA Technical Support &amp; PM, MGI Tech co., Ltd.</p> <p>MGI's SEQ ALL Landscape: Full spectrum of sequencing technologies from short-read to Long-read sequencing.</p>	Hall A	<p>Prof. K. Premkumar, Bharathidasan University, Tiruchirappalli</p> <p>Dr. Kamlesh Guleria, Guru Nanak Dev University, Amritsar</p>
6.25 PM - 6.45 PM	<b>Poster Presentation</b>		
7.00 PM - 8.00 PM	<b>ISHG GB MEETING</b>	Hall A	
8.00 PM - 9.30 PM	<b>CULTURAL PROGRAMME AND GALA DINNER</b>		