NGS Analytics and Genome Informatics Program
(Hall 3)

02nd 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

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