

Multidisciplinary Centre for Advanced Research and Studies (MCARS) JAMIA MILLIA ISLAMIA

invites you to attend workshop on "Next-Generation Sequencing Data Analysis"

by, Premas Life Sciences

Overview of the Workshop

Learn about existing and upcoming NGS technology and process of data generation
Understand data file format, quality control, assembly, annotation and visualization

Day-1: NGS Technology-Theoretical (Nov 15, 2019) Venue @ MCARS Seminar hall	
9:30-10:30 AM:	Insights into Next-Gen Sequencing platforms and It's applications
10:30-11:30 AM:	Sample preparation, Seq. library prep, Sequencing method and Data generation
11:30- 11:45 AM:	Tea break
11:45-1:00 PM:	Data overview for beginners: Basic computation skills that are essential for NGS, Quality control (FastQC), Adapter clipping, quality control (Alignment methods, Mapping heuristics)
1:00- 2:30 PM:	Lunch Break
3:00- 4:00 PM:	Data overview for beginners: Read mapping (BWA, BWA-MEM, Bowtie2, STAR, segemehl), Mapping output (SAM/BAM format) Reference databases (UCSC genome browser), Genome assembly & annotation
4:00-5:00 PM	"Towards a Genomics led economy and career opportunities" by Praveen Gupta
5:00-5:30 PM:	Interactive session with Q & A

Day-2: Hands on experience in NGS data generation (Nov 16, 2019) Venue@ Premas Life Science Facility

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