

Two Day Computational Workshop on “R programming for NGS Data Analysis” 25th - 26th Oct 2018

About School of Life Sciences

The School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science and Technology, has been visualized to emerge as a hub for state of the art research in all fields related to Bioinformatics, Molecular Biology, Bio-Chemistry, Microbiology, Bio-Technology, Cancer Biology, and Genetics etc., through sponsored projects from industries and Government agencies. It has also been visualized to be a training centre for scientists, researchers, clinical staff of hospitals, industry workers in advanced laboratory techniques with hands on experience, through short term intensive programs.

About the Workshop

R has become the most important scripting language for both experimental and computational biologists. It is well designed, efficient, widely adapted for all modern aspects of data analysis and visualization. Moreover it is free and open source. This workshop will introduces the essential ideas and tools of R required for bioinformatics. As Genomics techniques have become more affordable, the bottleneck has shifted to the analysis of Genomics data. The aim of this Hands-on computational workshop is to train students in R programming for analyzing NGS data. Participants are encouraged to bring their own laptops



Schedule	Events (Hands On Sessions)	Time
Day -1	Talk – Genomics Data Analysis using R Programming by Dr.Shahul	9.00 am - 10.00 am
	Introduction to R and R Studio – Installation - Data Structures in R – Flow Control and Functions in R – Data Manipulations in R – Visualizing Data in R	10.00 am - 1.00 pm
	Genome Assembly using Bioconductor packages	2.00 pm - 5.30 pm
Day -2	Variant-Seq Data analysis using Bioconductor packages	9.00 am - 1.00 pm
	SNP Data analysis using Bioconductor packages	2.00 pm - 5.00 pm

Workshop Fee: UG/PG participants-Rs.3000/-, PhD Scholars-Rs.4000/-, PDF/Faculty/Industry –Rs.6000/-

Fee Payment details: Account transfer / DD in favour of Dean, School of Life Sciences, Indian Overseas Bank, Acc No. 165701000019853, IFSC code: IOBA0001657 Venue : **School of Life Sciences**, B.S.Abdur Rahman Crescent Institute of Science & Technology, Vandalur, Chennai-48

NOTE: Filled in Application forms along with NEFT / IMPS transfer details or scan copy of DD can be e-mailed to shahulhameed.sls@crescent.education. Original DD can be handed over to us on the day of Workshop. Working Tea / Snacks provided. Accommodation charges separate.

Convener	Organizer & Resource Person	Workshop Date
Prof. S. Hemalatha Dean, School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology Chennai	Dr. M.S. Shahul Hameed, Asst. Prof. School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology Chennai	25th & 26th October 2018