



Module PMRF-ISSS165/2024

Genomic Data Analysis: Hands On

Name of the PMRF student

Sauma Suvra Majumdar

Details of the content of the module

Required background of the students taught

Understanding of basic Molecular Biology, and basics of Programming, Statistics and Mathematics.

This course will describe the step-by-step process to analyze the data generated by NGS platforms along with relevant hands-on experience. It's a 4 hour crash course on how to handle large genomic datasets and apply relevant pipelines to it.

Lecture1: 2 hrs

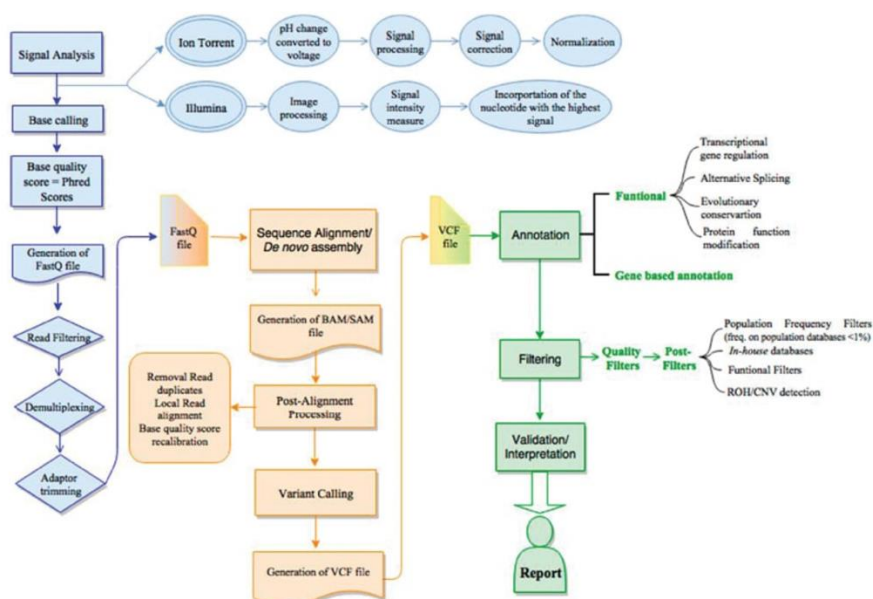
Topics: Sequencing technologies overview including Sanger, Illumina, ONT, PacBio etc

Quality Control, Sequence Alignment and Data Formats

Lecture2: 2 hrs

Topics: Basics of Linux commands

Variant Calling algorithms and pipelines for Single Nucleotide Polymorphisms and Structural Variants



Schedule of the module

Course starts on: 23rd October, 2024

Course ends on: 24th October, 2024

Classes on : Wednesday, Thursday

Timings: 17:30 – 19:00 hrs

Meeting link : Will be shared later

Link:

Contact email ID: issforum@gmail.com

Registration link:

<https://forms.gle/oSPNWPPhRvTQci4F9>