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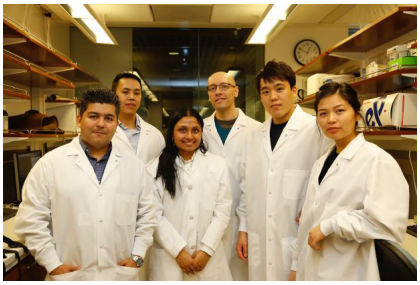
Description of the Facility

Background Overview

The Hunter College/CTBR Bioinformatics resources is located on the 4th floor of the Belfer Research Building at 69th Street and York Ave. The facility affords access to researchers and faculty, a high-performance computer cluster with a large range of bioinformatics software and data analysis pipelines. The facility provides cutting-edge bioinformatics technology for translational and basic research on health disparities. We also host a web-accessible bioinformatics platform based on Galaxy, (http://galaxy.hunter.cuny.edu:8080) to support genomic sequencing analysis.

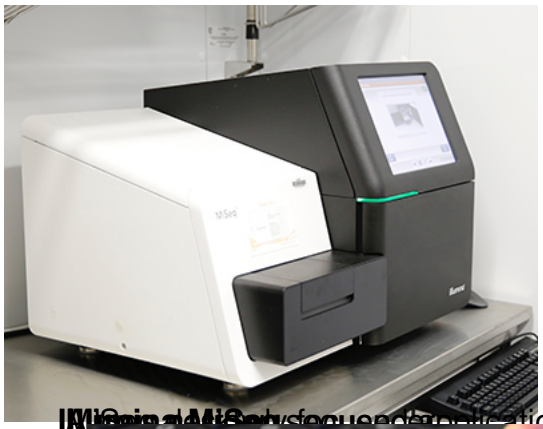
Additionally, the facility offers Illumina Sequencing using the Illumina MiSeq sequencing platform and Nanopore sequencing using Oxford Nanopore MinIon sequencer. Both these instruments are capable of sequencing entire complement of DNA, or genome, of many animal, plant, and microbial species for basic biological and medical research. A detailed description of our services and available equipment is given below

Services



- RNAseq and variation discovery
- small RNAs sequencing
- de novo bacterial genomes
- RNAseq Analysis
- Targeted amplicon sequencing
- Computational Capacity
- Scalable Storage

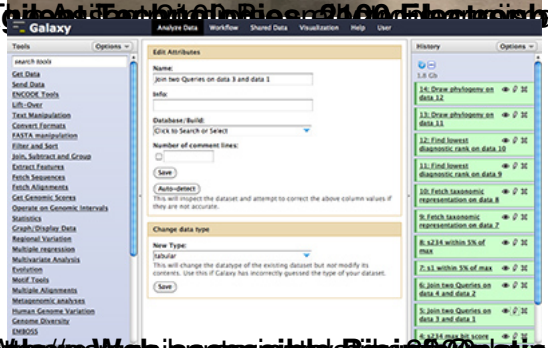
Bioinformatics and Sequencing Resources and Equipment



IMiSeq is a MiSeq-focused applications such as targeted gene sequencing, metagenetics, metagenom

Oxford Nanopore Minion is a rapid and portable, real-time sequencing platform that include

Agilent Tapestation Rice 2100 Electrophoresis Bioanalyzer is a platform that provides sizing, quantitation and



Galaxy Web-accessible Bioinformatics Platform is a web-based platform for data intensive BioMedical researc

-Silicon Mechanics [illegible] es, 3TB of high-speed RAM, a GPU [illegible]

-Seagate [illegible] three scale-out storage building blocks, the Lustre® parallel filesystem

[illegible] backup and project archiving [illegible] seq_sam

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