

HGEN 676. LAB COURSE IN GENOMICS.

Credits: 3

Offered by: Human Genetics (Graduate Studies)

This course is not offered this catalogue year.

Description

Introduction to Next Generation Sequencing (NGS) Based Genomics in the form of seminars and laboratory work. Lectures in state of the art sequencing technologies and their applications. Laboratory work in the preparation of high quality libraries for analyzing DNA and large/small RNAs. Hands on experience in setting up next Generation Sequencing using specialized equipment. Tutorials in use of Bio-informatics Analysis tools in experimental design, quality control, and in depth analysis of data. Practicum in using computational tools for personalized data analyses. Technology paper presentation, as well as production of a report on course data generation and analysis.

- Prerequisite(s): HGEN 692 or equivalent.

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