

List of offered projects in previous years – Bioinformatics MSc

A selection of projects offered in recent years is provided below.

Hosted in SBCS:

Visualising proteomics data in Galaxy

A Circular Dichroism Classification Database

Circular Dichroism Spectral analysis different or not?

Protein fold recognition and classification

Development of targeted Proteomics Tools for Galaxy

Conservation genomics of St Helena endemic *Wahlenbergia*

Next Generation Sequencing and Ecological Networks of Bats

Reconstructing the evolutionary history of neuropeptide signalling in the phylum Echinodermata

Development of a differential gene expression examination pipeline for non-model organisms

Identification of genes/pathways responsible for longevity of queens in comparison with workers in social insects

Identification of genes/pathways involved in major social transitions in how ant colonies are organized.

Hosted at Barts Cancer Institute:

In Silico Prescription of Anticancer Drugs to breast cancer patients

Breast Cancer Now Tissue Bank Bioinformatics Portal

A bioinformatics solution to analyse kinase signalling in cancer

Bioinformatic analysis of PAK signalling in leukaemia

Hosted at the Blizard Institute:

Epigenomics of retroelements in cancer

DNA Methylation Dynamics during Senescence

Hosted at the Institute of Dentistry:

Antibody Repertoire Analysis

Hosted at the William Harvey Research Institute:

Use of Elastic Search for storing and querying clinical data.

Dockerizing Pipelines for Genomics England

Applications of probabilistic description logics in Bioinformatics

Drug repositioning for rare diseases and cancer: collaborations between Genomics
England and The Open PHACTS foundation