Master project 2020-2021

Personal Information

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Project

Computational genomics

Project Title:

Integrative nucleome analysis of genome-wide scRepli-seq and Hi-C datasets to explore the 3D genome architecture

Keywords:

3D genome organization, 4D nucleome, Hi-C, scRepli-seq, NGS

Summary:

We welcome students with bioinformatics skills who have a keen interest in 3D genome architecture (4D nucleome) through integrative analysis of genome-wide NGS datasets derived from single-cell Repli-seq (scRepli-seq) and Hi-C experiments. We are looking for curator-type bioinformatics students who are responsible for all the work related to data resources and data integration, described as the "second category" bioinformatician in the following link. https://bitesizebio.com/38236/how-to-become-a-bioinformatician/

Expected skills::

(1) Programming skills for analyzing genomic data (unix/python/R/Perl), (2) Statistics background, (3) Basic molecular biology background

Possibility of funding::

To be discussed

Possible continuity with PhD: :

To be discussed