



Master project 2021-2022

Personal Information

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Project

Structural bioinformatics

Project Title:

RNA-PROTACs

Keywords:

Computational Chemistry, Molecular Modeling, RNA Targeting, PROTACs, Drug Design

Summary:

PROTACs (PROteolysis-TArgeting Chimeras) are a new class of drugs that mediate protein degradation through the ubiquitination machinery. Conventional PROTACs comprise a ligand that binds to the target protein and a recruiting E3-ligase molecule that mediates protein degradation. Recently, RNA-PROTACs were introduced to facilitate the degradation of RNA binding proteins (RBPs), which are the origin of many diseases. In this project, a computational validation of already described RNA-PROTACs will be performed with the aim to develop a computational protocol for the design of novel molecules.

Expected skills::

Biochemistry with programming skills or knowledge

Possibility of funding::

Yes

Possible continuity with PhD: :

Yes

Comments:

Initial project duration: 6-8 months

