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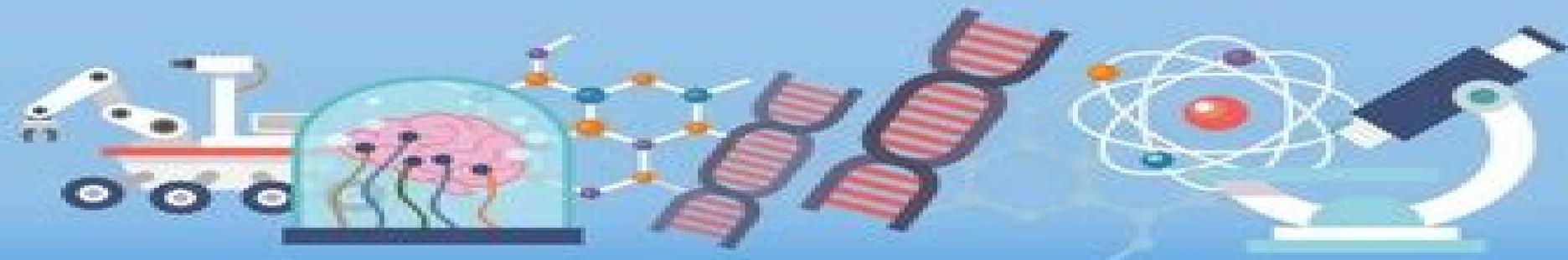
Project Details

Proposed Title: Creation and synthesis of bifunctional degrader libraries for the discovery of possible cancer targets.

Background of the Project

The success of the target discovery of cancer drug is highly dependent on the determination of protein targets which can be modulated using small molecules, thus producing anti-cancer effects. The purpose of this project is to possibly apply the use of synthetic organic chemistry, combined with medicinal chemistry to the creation and synthesis of a library of different compounds which can promote protein degradation. After, these will be used in identifying protein targets which will then be used in the discovery of new cancer drugs.

Bifunctional degraders are a newly discovered molecule class wherein an E3 ubiquitin ligase binding compound is connected to a warhead which binds its therapeutic target. In contrast with other conventional smaller molecule drugs which bind and blocks the action of their protein targets, these bifunctional degraders work by catalyzing the formulation of a complex in between an E3 ligase, as well as a target protein, thus allowing for ubiquitination, thus resulting to the irreversible and rapid degradation of the potential target.



Cancer Research Proposal Sample

DJ Losen



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