

OFFER AN INTERNSHIP
Academic Year 2014 – 2015

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Name of the head of laboratory or company: Chas Bountra

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Specialty training : Research ☒ Professional ☐

a few key words to describe the subject of training : Epigenetics, histone lysine demethylases, docking, cheminformatics, compound design.

Title of internship:

Design of novel peptide-competitive compounds against key histone lysine demethylases.

this subject is a first step towards a thesis: No

Short texte describing your project

The goal of this project is to take a pre-existing methylated-lysine mimetic compound which contains a long aliphatic chain, and a) understand its current binding properties against a range of histone lysine demethylases (KDMs); b) using cheminformatics and docking, propose possible linker modifications to improve peptide-competitiveness and also selectivity with the aim of catalyzing a new chemical probe generation project against KDMs at the SGC.

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