

**MASTER « In Silico Drug Design »  
Second Year**

**OFFER AN INTERNSHIP  
year 2017/2018**

send to Pr Camproux  
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Specialty training : Research  Professional

a few key words to describe the subject of training : python, docking (autodock, rosetta), visualisation tool (pymol), structural bioinformatics

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**Title of internship: Mutations study on different proteins related to pathways**

this subject is a first step towards a thesis: Yes - No

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**Short texte describing your project**

Some studies have shown that the polyphormism of some genes could be involved in the chemical toxicity in human. The objective of this project is to investigate the SNPs impact on different proteins related to some specific pathways (oxidative stress, Apoptosis...). Proteins that are part of these pathways will be studies from a sequence-based and structural-based approach if proteins structure are available. For example, we will look on the impact of the SNPs to the compounds activity through docking studies and location of the SNPs in the path to the active site.

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