

**OFFER AN INTERNSHIP**

**Academic Year 2014 – 2015**

Send to Mrs Pr Camproux :

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Name of the head of laboratory or company: Juan Fernández-Recio

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**Name of training supervisor:**

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Specialty training : Research ☒ Professional ☐

a few key words to describe the subject of training :

protein-protein interactions, computer docking, molecular dynamics, conformational flexibility

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**Title of internship:**

Classification of protein-protein interfaces as drug targets

this subject is a first step towards a thesis: Yes (depending on funding)

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**Short text describing your project**

The goal is to try to classify protein-protein interfaces that are known as drug targets or can bind small ligands, by using our CCharPPI descriptors (<http://life.bsc.es/pid/ccharppi>). The results will be correlated with libraries of protein-protein interaction inhibitors (developed by Olivier Sperandio, MTi). The goal will be to build a model that is able to relate a given protein-protein interface with potential inhibitors, which will help to develop therapeutic drugs targeting protein-protein interactions.

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