

## Master « In Silico Drug Design » Second Year

## OFFER AN INTERNSHIP Academic Year 2015/2016

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Name of the head of laboratory or company:

Adress: CENTRE FOR DRUG RESEARCH Faculty of pharmarcy PO Box 56 (Viikinkaari 5 E) FI-00014 University of Helsnki E-mail:
Name of training supervisor: Dr Henri xhaard & A. Borrel
Phone number: Fax: E-mail: xhaard@mappi.helsinki.fi
Specialty training: Research Professional
a few key words to describe the subject of training:
Title of internship:
Optimizing the position of water molecules at protein-ligand interface
this subject is a first step towards a thesis: Yes - No
Short texte describing your project
The goal of this internship is, from a previous work, to optimizing water molecules positioned in protein-ligand interfaces. This work is divided in two step, (i) develop and test a algorithm to keep the longest water sequence and propose a score of interaction based on the number of contact points and (ii) using MODELLER improve the water network. The long-term perceptive of this work is to proposing a new method, faster and less dependent of the molecular dynamic softwares, able to

computed the energy of the solvent molecule in the protein-ligand interaction,

but influencing the entropic and also the

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protein-ligand system.

largely missing in drug discovery studies

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