

Open PhD student position at Intelligent Pharma “In silico design of targeted chemical libraries to regulate Tribbles action”

One PhD student position is available at [Intelligent Pharma](#) within the Marie Skłodowska Curie Innovative Training Network frame (ITN) “Tribbles Research and Innovation Network” ([TRAIN](#)). Applications from MSc students finishing a Bioinformatics-related degree in 2016 are particularly welcome. Please visit <http://train-itn.eu/index.php/recruitment/> for eligibility conditions.

What your project will consist of:

The position offers the student the possibility to research into innovative virtual screening methodologies for the discovery of small molecules which prevent Tribbles degradation. The project will combine protein-protein interaction network analysis along with protein structure prediction. The methodologies will be applied to the design of targeted chemical libraries and the experimental identification of hits.

The context of TRAIN:

Dysregulation of common molecular pathways that govern the physiological functioning of adipocytes, immune cells and prostate epithelial cells have been reported in immunometabolic diseases, such as obesity, and several cancers. We want to uncover cell-specific aspects of these pathways, focusing on Tribbles proteins, a recently described family of pseudokinases, that have a key role in controlling immunity, energy homeostasis and cancer development, and which here will serve as prototypical examples for integrative immuno-metabolomic cancer research. More details (including other positions) can be found on the [TRAIN website](#).

The skills you will develop:

- Homology modeling
- Docking, pharmacophore modelling and molecular dynamics
- Small molecule/peptide/drug design
- Chemogenomics
- Database design, construction and management (MySQL or equivalent)
- Project management

What do TRAIN and Intelligent Pharma offer to develop your skills?

- Integration into a network of 10 European partners including industrial and academic institutions
- Participation in 6 training events (4-6 days each)
- Trans-sectorial exchange of 6 months at the University of Sheffield, UK
- Integration in a company environment which carries out projects for the pharma industry
- A very competitive salary
- A mobility allowance to contribute to the expenses caused by the mobility

What experience in particular should you mention in your application?

- Homology modelling and any other computational chemistry technique
- Bio databases
- Programming skills
- MySQL or other
- Bio and science experience

Questions? Contact Laia Casafont - lcasafont@intelligentpharma.com

Apply as soon as possible through <http://train-itn.eu/index.php/recruitment/>.