The « In silico Drug Design - Design in silico of bioactive molecules, ISDD-Bioactive molecules» program is at the intersection of structural biochemistry, chemistry and in silico approaches. It responds to the needs of both the private and academic sectors to train professionals in the therapeutic innovation domain and for computational research of therapeutic molecules. This research domain is flourishing in Europe and in the world. This program is dedicated to bioactive molecule modeling and in silico pharmaceutical chemistry. It is built on specialties of different international universities and visiting professors and researchers. This program creates the possibility for earning a Franco-Italian double diploma: ISDD-Bioactive molecules and the Laurea Magistrale in Scienze Chimiche, from the Università degli Studi di Milano.

For further information : http://isddteach.sdv.univ-paris-diderot.fr

OBJECTIFS

The ISDD program provides training in all tasks related to the « Drug Discovery» process using in silico approaches, from theoretical to applications (for example, virtual screening of therapeutic targets, drug safety…)

It offers to students training in chemical biology based on the fundamental principles of chemistry, biochemistry, biophysics, pharmacology, molecular medicine, information technology, bioinformatics and biostatistics.

COMPÉTENCES VISÉES

With this program, the students will acquire sufficient skills to process computational-aided drug design in drug discovery and/or drug safety. More precisely, the students will gain competence in programming, algorithmic, biostatistics, math, molecular modelling, cheminformatics, structural bioinformatics, data analysis, virtual screening, docking and molecular dynamic. There are many “work-together” projects, training the students to work as a team in a multidisciplinary domain. They have the possibility to perform an internship abroad, providing an opportunity to them to integrate international research project and to develop their ability to adapt to different project management and cultures.

STAGE

(6 mois)

Programme

ORGANISATION

The « In silico Drug Design - Design in silico of bioactive molecules, ISDD-Bioactive molecules» program, include a first semester in chemoinformatic at the university of Strasbourg,
a second semester related to molecules bioactives at the university of degli studi di Milano. The semester 3 is on drug design and virtual screening at the university of Paris Diderot and the fourth semester is an internship on a research project in France or in a foreign country.

Many “team building” projects are proposed in the third semester.

At the end of the training, students are able to develop and apply diverse computational approaches for the identification of new hits molecules.

The multidisciplinary of the program is supported by universities of excellence at Paris Diderot, Strasbourg and Degli studi di Milano, and the involvement of national and international experts.

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Infos pratiques

Composante(s) :
UFR Sciences du Vivant

Niveau d'études visé :
BAC +5

Formation accessible en :
Formation initiale

Formation à distance :
Non

Lieu d'enseignement :
Université Paris Diderot

ÉTABLISSEMENT PARTENAIRES

- Université de Strasbourg
- Université degli studi di Milano