

Master « Sciences, Technologie, Santé »
Mention « In Silico Drug Design »
Second Year



OFFER AN INTERNSHIP
Academic Year 2012 – 2013

Send to Mrs Pr Camproux :

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Specialty training : Research Professional

a few key words to describe the subject of training :

tubulin, protein-protein interactions, antimetabolic agents

Title of internship: Modeling study of pyronetine-vinblastine hybrid systems.

this subject is a first step towards a thesis: No

Short text describing your project

Our research group is carrying on a collaboration with an organic synthesis group which has a long experience in the synthesis of tubulin targeted molecules with activity on different lines of tumour cells. We have already studied from the computational point of view the interaction between pyronetin analogues and α tubulin as well as the interaction of vinblastine with tubulin heterodimers. Now we are interested in designing and testing hybrid molecules containing both a pyronetin like scaffold and a part of the vinblastine molecule (either the catharanthine or the vindoline moiety). During the internship work different linkers between the two moieties as well as modifications of the pyronetin analogues will be studied with docking and molecular dynamics techniques.

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