

## Master project 2020-2021

### Personal Information

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### Project

## Structural bioinformatics

#### Project Title:

In silico prediction of novel ligands for a chemokine receptor

#### Keywords:

Chemoinformatics, homology modelling, docking calculations, GPCRs, computer-aided drug design

#### Summary:

Your project will evolve around one member of the chemokine receptors. The ultimate goal is to find novel ligands that modulate the activity of this target. Since there are no crystal structures available for the target receptor, the first step is to prepare a three dimensional structure of it by homology modelling. This model will then be used in docking calculations to screen a large library of molecules against it.

#### Expected skills::

basic chemical knowledge to evaluate protein-ligand interactions

#### Possibility of funding::

To be discussed

#### Possible continuity with PhD: :

To be discussed

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