

Development of theranostic agents for cancer detection and treatment.

HDR/ Honours Project Description

Project Title	Development of theranostic agents for cancer detection and treatment
Project duration:	Several subprojects related to our main axe of research are available and can be adapted to fit student's schedule.
Availability	ASAP
Description:	<p>Our research team is working on translational projects consisting in the development of innovative agents for cancer detection and treatment.</p> <p>Our research projects are segregated into several aims:</p> <ol style="list-style-type: none"> 1) Identification of novel cancer-specific targets: Interrogation of publicly available databases; Determine targets' expression by immunohistochemistry or mass spectrometry using patients-derived material 2) Development of novel targeting agents: Generation of antibodies in pre-clinical models; Production of recombinant proteins; Screening of ligand libraries, Chemistry of antibodies to conjugate ligand with various payloads (radionucleotide, cytotoxins, ...) 3) Pre-clinical testing of agents: In vitro testing on cancer cell lines and patient-derived material; Utilization of pre-clinical models for cancer imaging (PET/CT) and therapy. <p>Be involved in our research project means that you will be integrated in a translational research team which works at developing novel agents to improve the diagnosis and treatment of cancer with the ultimate goal to improve cancer patients' life.</p>
Expected outcomes and deliverables:	The student involved can expect to learn cutting-edge skills related to cancer biology and pharmaceutical development. In addition to the acquisition of knowledge and skills essential in cancer research, student are expected to be involved in the publication of their work in scientific journals.
Suitable for:	Projects can be adapted to suit any student from Honour to HDR.
Primary Supervisor:	Dr Thomas Kryza / Prof John Hooper

Further info:

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