

Cancer, Ageing and Rejuvenation Graduate School - CARe

Master's Programme

2022 - 2023

Title of the Teaching Unit (UE): Innovative pharmacological strategies and therapeutic perspectives		
Semester: 8	Number of ECTS: 3	Hourly volume: 28h MC : 16h & DC : 12h No distance learning hours
Teaching Team	Leaders : Bruno Guiard & Philippe Valet <u>Teaching team :</u> Pharma : B. Guiard, F. Thomas, F. Fallone, A. Roussin, C. Muller ; FSI : Ph. Valet, C. Dray, B. Buffin Meyer; Medicine: M. Lapeyre-Mestre	
Objective	The aim of this course is to introduce students to the different classes of drugs currently available and in development, in the fields of metabolic diseases and complications (mainly cardiovascular), cancer and ageing. For each field, the lectures are divided into 4 points : 1- Review of the physiopathology, 2- Biological models available for the study of this/these pathology(ies), 3- Identification of possible pharmacological targets, 4- Presentation of current therapeutics and strategies in progress in the research laboratories.	
Content		diseases
Pre-requisites	To have followed the EU organisms"	"Pharmacological approaches for the study of living
Keywords	Pharmacology, Drugs, M	etabolic diseases, Cancer, Cardiovascular diseases, Ageing
Skills	pathophysiological mech - Consider the most prom - Use basic pharmacolog - Use basic pharmacolog - Critically review scientif	eutic targets based on a good knowledge of anisms, hising novel therapeutic strategies for drug development, y to compare the efficacy of different pharmacological ligands y to compare the efficacy of different pharmacological ligands, ic articles on the different phases of drug development from harket launch (preparation of a slide show for oral



Block of Skills	In vitro and in vivo studies of the response to xenobiotics/drugs.	
	Exploration of strategies to find new targets. Evaluation of drug characteristics and therapeutic limitations. Pre-clinical models.	
	Clinical investigation.	
	Interpretation and analysis of data	