

Cancer, Ageing and Rejuvenation Graduate School - CARE

Master's Program

2023 - 2024

Title of the Teaching Unit (UE): Antitumoral Therapies		
Semester: 9	Number of ECTS: 3	Hourly volume: 30 hours
Teaching Team	Coordinators : Fabienne THOMAS : thomas.fabienne@iuct-oncopole.fr / Tel : 05 31 15 52 19 and Florence DALENC : dalenc.florence@iuct-oncopole.fr / Tel : 05 31 15 51 04 Teaching team : Professors of Faculty of Medicine and Pharmacy, researchers, physicians	
Objective	<ul style="list-style-type: none"> - Overview of current and innovative anticancer treatment strategies - Understand therapeutic approaches in the context of drug resistance - Analysis of clinical trials with innovative drugs - Understand the translational aspect of anticancer drugs research with examples of researcher/clinicians collaborations. 	
Content	The "Anti-tumor therapies" teaching unit should allow students to have a global vision of the therapies used in the treatment of cancers and to discover and deepen the different approaches and targets currently under development. Teaching takes the form of courses and workshops during which students must present articles chosen by the speaker on a particular theme. Examples of topics covered: <ul style="list-style-type: none"> - Development of targeted therapies in oncology: principles and predictive factors of efficacy - New approaches to cancer gene therapy - Radiotherapy, radiobiology, radiosensitization - 3D models in cancer biology and pre-clinical evaluation - Tumor cell metabolism as a new therapeutic target - Synthetic Lethality - Role of molecular signatures for the personalization of treatments 	
Pre-requisites	Knowledge of the mechanisms of oncogenesis and tumor resistance.	
Keywords	Targeted therapies, personalized medicine, innovative therapies	
FTLV		
Skills	<ul style="list-style-type: none"> - Acquire and understand the most recent fundamental concepts in oncology - Mobilize highly specialized knowledge on the mechanisms of carcinogenesis, some of which are at the forefront of knowledge in the field - Develop a critical awareness of knowledge in one field and/or at the interface of several fields - Identify, select, and critically analyze a variety of specialized resources to document a topic and synthesize these data for use - Communicate for training or knowledge transfer purposes, orally and in writing, in French and in at least one foreign language. 	



Block of Skills

- Development and integration of highly specialized knowledge
- Specialized communication for knowledge transfer.