

Màj 16/04/2020

UE 2.2. Current concepts in Oncology

12 ECTS

Parcours « *Basic and clinical oncology, towards precision medicine* »

ST7: Tumor angiogenesis, fundamental and clinical aspects

Contact : fabrice.soncin@inserm.fr

This day is centered, first, on the description of the fundamental aspects of angiogenesis during normal and tumoral development, experimental models for the study of blood vessel formation, and the involved second messenger pathways. Second, clinical aspects of targeting tumor blood vessels in colorectal, kidney cancers and sarcoma, and on the specific imaging are presented.

Duration: 1 day

Program:

Context: Angiogenesis, the formation of new blood vessels, is necessary to the development of solid tumors and has historically been one of the first processes aimed by using targeted therapies in clinics.

Content: The day is centered, first, on the description of the fundamental aspects of angiogenesis during normal and tumoral development and of second messenger pathways. Then, it features the clinical aspects of disturbing tumor blood vessels using targeted therapies in colorectal, kidney cancers and sarcomas, and the specific clinical imaging approaches. Finally, a different speaker is invited each year to present a more focalized fundamental or clinical aspect.

Typical agenda of the day :

Fundamental aspects:

- Molecular and cellular bases of angiogenesis - F Soncin, PhD
- Experimental models for the study of angiogenesis - V Mattot, PhD
- Signaling pathways in endothelial cells - D Gkika, PhD

- Invited seminar (different each year)

Clinical aspects.

- Anti-angiogenic therapies for the treatment of digestive/renal human cancers - C. Peugniez, MD
- Anti-angiogenic therapies for the treatment of kidney cancers - C. Cheymol, MD
- Specificity of the study of antiangiogenic therapies in standard, dynamic, and functional clinical imaging, S Taieb, MD

Educational team:

Fabrice Soncin, Virginie Mattot, Dimitra Gkika