

Màj 22/10/2020

## UE 2.2. Current concepts in diabetes and cardiovascular diseases

12 ECTS

### **“Parcours” Diabetes and Cardiovascular Diseases**

The purpose of this disciplinary teaching unit is to provide thorough knowledge and skills necessary for research in the field of metabolic and cardiovascular diseases associated with diabetes.

#### **Block of Skills and Knowledge - BCC2: Know the recent concepts in Biology and Health Science in a specialization area**

##### **Skills acquired (direct / indirect):**

- Design an experiment in Biology and Health Science in a specific area by defining a problem and formulating objectives (SB2): by producing a review of the international scientific literature related to the research project; by arguing the relevance of models and methods' choice (biological model, analysis techniques, statistical tests);
- Communicate scientific data (SB5): by synthesizing data from both the scientific literature and experimentally self-acquired; by presenting and discussing concepts or results from various supports (oral presentation, poster, written report, etc.); by communicating in a clear and structured manner while adapting the level of expression and specialization to the target audience.

##### **Teaching:**

Four teaching subunits are provided. Each subunit takes the form of a seminar on a specific topic, including conferences and mini-symposia. The students are actively associated.

- ST1: From (epi)genetics and functional genomics to precision medicine of cardiometabolic diseases.
- ST2: How they talk! Inter-organ communication in diabetes and cardiometabolic diseases.
- ST3: Complication of obesity and type 2 diabetes: focus on pathophysiology of heart, vascular and fatty liver diseases.
- ST4: Drugs and drug development in diabetes and cardio-metabolic diseases.

##### **Test: continuous assessment**

Knowledge is assessed by writing a literature review on one of the topics dealt with during the thematic seminars. This review is then presented orally to a committee of experts and the students are invited to answer questions related to the topic.