

Màj 02/07/2020

UE 2.2. Concepts récents en diabète et maladies cardio-vasculaires**12 ECTS****Parcours « *Diabetes and Cardiovascular Diseases* »****ST2 : How they talk ! Inter-organ communication in diabetes and cardiometabolic diseases**Contact : Sophie Lestavel (sophie.lestavel@univ-lille.fr)

This seminar aims to understand recent findings linking diabetes and cardiometabolic diseases to the deregulated dialogue within and between organs/tissues (i.e., pancreas, intestine, gut microbiota, white and brown adipose tissues, skeletal and cardiac muscles, bone, immune system, brain) and to discuss to what extent this perturbed crosstalk is a potential target for current and innovative therapeutic approaches.

Durée : 3 days**Programme :**

Dialogue between cells and organs is crucial for controlling numerous homeostatic systems including energy balance and glucose metabolism. Several pathological conditions, such as obesity and type 2 diabetes, are characterized by altered inter-organ communication leading to a chronic low grade inflammation.

Program of seminar 2

Following an update regarding each organ/tissue (i.e., pancreas, intestine and gut microbiota, white/brown adipose tissues and immune system, marrow adipose tissue and bone, skeletal and cardiac muscles, brain), the most emerging cross-talks between these organs in the control of energy homeostasis will be further presented and discussed. This seminar will favor the translational approach by emphasizing the links between fundamental, preclinical and clinical researches, and will highlight technical and technological advances.

Organization of seminar 2

This seminar will be organized in the format of lectures by local experts, inverted class, presentation and discussion of articles, and face-to-face work with the students. A renowned speaker will be invited to give the closing conference.

Equipe pédagogique : Jean-Sébastien Annicotte, Kadiombo Bantubungi, Christophe Breton, Robert Caiazzo, Christophe Chauveau, Hélène Duez, Thomas Hubert, Julie Kerr-Conte, Steve Lancel, Sophie Lestavel, Stéphanie Lucas, Yasmine Sebti, Anne Tailleur, Isabelle Wolowczuk