

## Conférence - CEISAM - UMR CNRS 6230

Jeudi 3 Octobre 2019 - 10h30  
Salle Marie Curie

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**Titre "La méthodologie, un allié au service de la synthèse de produits naturels biologiquement actifs"**

**Methodology, an ideal partner towards the synthesis of biologically active natural products**

Our laboratory possesses a long-lasting interest in the total synthesis of biologically active natural products. Among the structurally complex molecules synthesized, cancer (discodermolide and analogues, sarcodictyines, salinosporamide A, thapsigargin, hemicalide), type II diabetes (FR225654) and neurodegenerative diseases (vibsatin A) are targeted.

In order to reach the high degree of complexity imposed by such frameworks in a straightforward manner, the development of robust methodologies in organometallic chemistry is particularly relevant. On the contrary, the development of new methods in organometallic catalysis could offer new opportunities to readily access complex structures. Furthermore, due to environmental concerns, these methodologies should ideally be sustainable.

Thus, total synthesis and development of methods are strongly interactive partners. In order to illustrate this feature, two syntheses will be presented as well as methodological developments inspired by our synthetic routes. Conversely, recent advances in green organometallic catalysis towards the synthesis of pharmaceuticals will be developed.