



Séminaire externe



Biotechnological applications using peptide toxins from animal venoms.



In this seminar, as a founder of Smartox Biotechnology and as an Inserm researcher working on animal peptides, I shall illustrate by using key examples the amazing repertoire of biotechnological applications that can be developed using these peptides. After a few introductory words on the amazing diversity of animal toxins, I shall introduce several novel concepts. First, the potential of toxins as cell penetrating peptides and as vectors for cargo delivery. Second, the concept of bio-mimetic and how a toxin may hijack a physiological process. Third, the possibility to use toxins as targeting tools for the delivery of cell weapons. Fourth, I will illustrate that the power of phenotypic screening for the discovery of exotic toxins. Finally, I will demonstrate that in vivo toxin neutralization does not necessarily require the production of a horse serum and that DNA aptamers can perform amazingly well.

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Invité par
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Vendredi 3 mars 2017 à 11h00
Salle de conférence du CBM