

Les conférences FR TransBioMed

Invitation : Christophe Grosset – Inserm U1035 Mircade

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Groupe « Systèmes Moléculaires Programmés »

“From Molecular Programming to the Selective Delivery of Anticancer Drugs”

Jeudi 7 février 2018 à 11h00

Salle de conférences de l'IBGC - site de Carreire zone sud,
université de Bordeaux

In our research team, we are mainly interested by “molecular programming” with the aim to explore or manipulate complex biological systems such as living cells or organisms. In other words, we design molecules that have built into their structure a chemical program enabling them to perform specific tasks autonomously within biological environments.

Recently, we developed various molecular devices programmed for the selective delivery of anticancer drugs. These functional systems were designed to allow: (1) the transport in the body of potent anticancer agents in an innocuous manner toward safe tissues, (2) the efficient recognition of malignant specificities located either at the surface of cancer cells or in the tumor microenvironment and (3) the controlled release of the parent drug exclusively at the tumor site.

The therapeutic efficacies of these novel drug delivery systems have been evaluated for the treatment of various solid tumors in mice. Main results obtained in the course of this research program will be presented.