



SELECTED OPPORTUNITIES IN ONCOLOGY

NANO-SIZED DRUG DELIVERY STRUCTURE (CHIM15575)



NANO-SIZED DRUG DELIVERY STRUCTURE (CHIM15575)

Product factsheet

- Product: nano-sized drug delivery structure for prolonged delayed and controlled diffusion of an active agent or a drug
- **Application:** All fields notably cancerology

Rational:

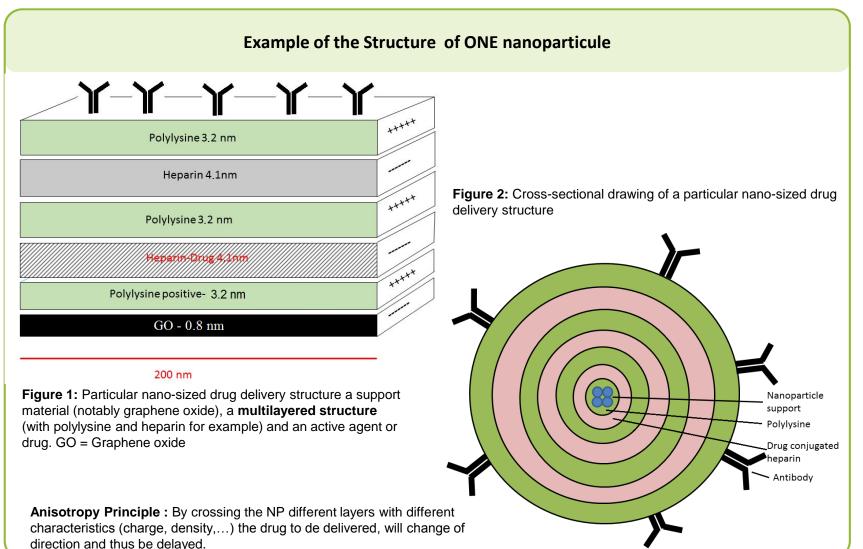
- Recurrent problem concerning pharmaceutical compositions :
- biological modification and/or elimination of the medication in the body
 - Very short periods of effectiveness of the treatments,
 - Compensation by the administration of repeated doses,
 - toxicity/side effects due to untargeted delivery,
- Drugs usually rapidly dissolve in the digestive tract

Technology:

- Nano-sized drug delivery structure comprising a support material, a multilayered structure and an active agent or drug (see figure 1 and 2). The multiple layer structure allow diffusion by anisotropic principle. A antibody can be coupled to the nanostructure to allow a targeted delivery.
- > Patent and publication: PCT/EP2017/059966 filed April, the 26th 2017

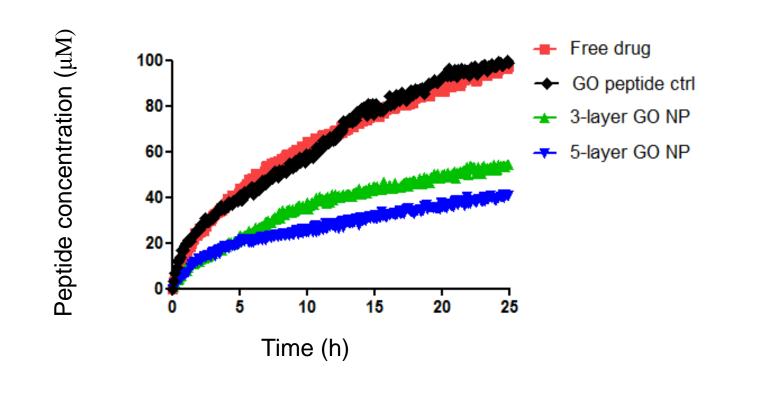


Product



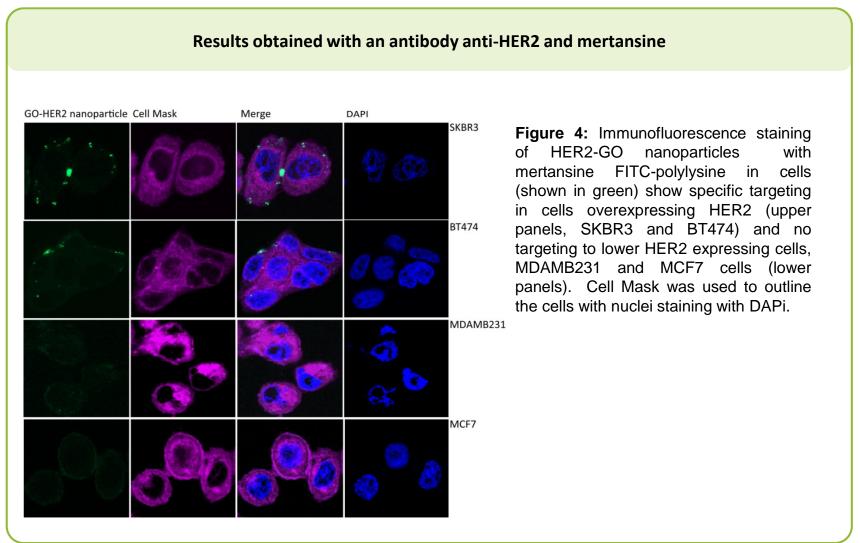
Proof of concept

Figure 3: Retardation of diffusion observed when using the nano-sized drug delivery structure of the invention with a peptide. Cumulative experimentation. GO = Graphene oxide – NP = Nanoparticule



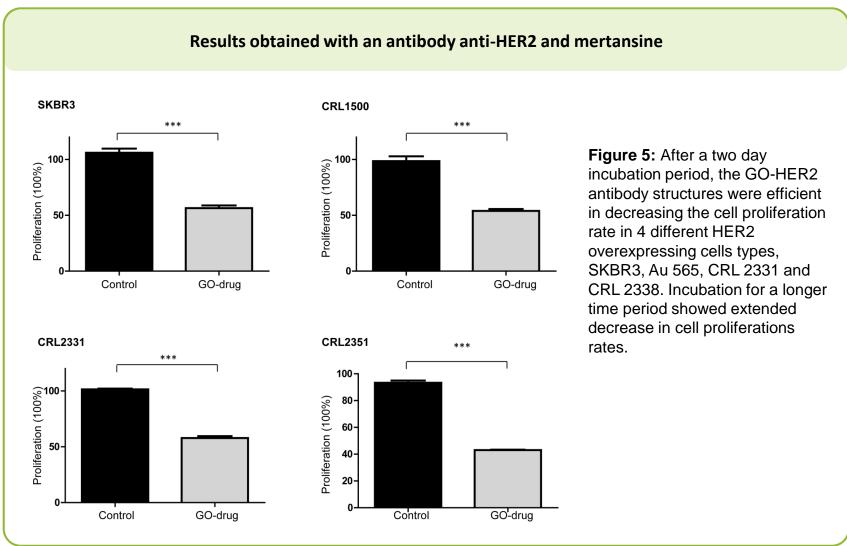
InsermTransfer

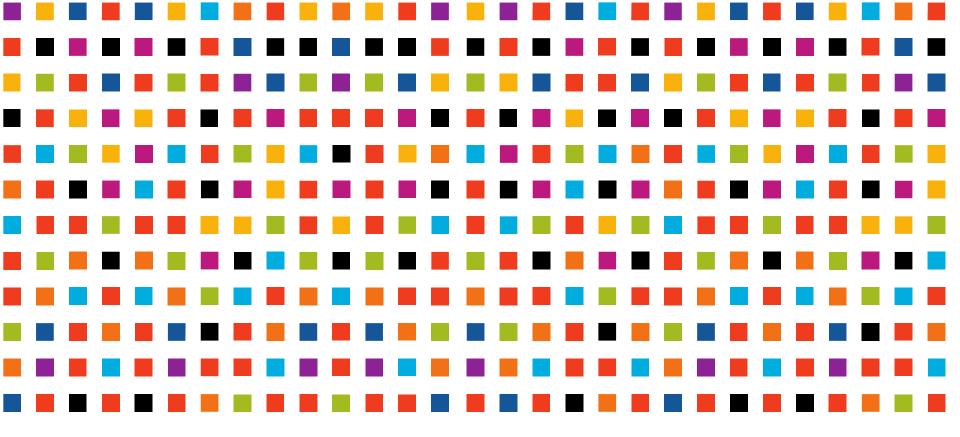
Proof of concept



InsermTransfert

Proof of concept





ANNE.COCHI@INSERM-TRANSFERT.FR

Inserm Transfert - Paris Biopark 7 Rue Watt - 75013 Paris Tel: +33 1 55 03 01 00 / Fax: +33 55 03 01 60 www.inserm-transfert.fr

