

OPTICAL IMAGING AGENT FOR ASSISTING IN ANTI-TUMOR SURGERY

Development of imaging agents to aid in the visualization of cancerous tumors.

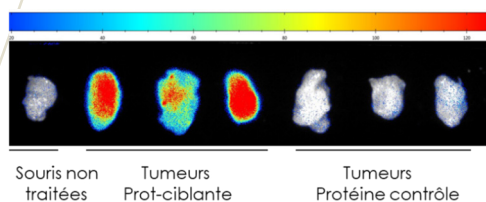
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L'AVENIR EST FAIT D'AUDACE

PRESENTATION

Delineation of tumour areas with an imaging agent help to better define the area that needs to be removed during surgery. It can also help to preserve healthy tissue in order to limit the deleterious consequences of the surgery. There are currently portable optical imaging systems that can be used in the operating room, thus, we developed degradable optical imaging agents emitting in the tissue transparency zone and specific to tumour areas.

This new agents targeting specific inflammation markers allows to delineate primary tumours in order to resect without leaving tumour tissue that could be responsible for post-surgical recurrence and to highlight the functional healthy liver, so that liver metastases are negatively contrasted and too much healthy tissue is not resected.



Imaging agent - Tumours targeting - Tumours surgery
Liver metastases - Diagnostic - Near and far infra-red

DEVELOPMENT PHASE

✓ In vitro & In vivo Proof of Concept

INTELLECTUAL PROPERTY

EU & US Patent Application pending

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APPLICATIONS

- Tumors targeting and resection..
- Cancers
- Surgical assistance
- Tumors diagnostic

COMPETITIVE ADVANTAGES

- Accuracy improvement of tumor resections
- Less recurrences
- Reduced healthy tissue resection

PUBLICATIONS

- P. Chaumet-Riffaud et al. Bioconj Chem 2010
- Yongmin Zhang, Carb. Res. (2014) **383**, 89-96