

This proof-of-concept study showed that:

- LDLR is overexpressed in tumoral compartment of the primary pancreatic tumor, as well as in metastasis, making this receptor a good target to improve diagnosis of PDAC progression by imaging.
- Fc(A680)-VH4127 conjugate specifically binds to LDLR and targets pancreatic tumors, even stroma-rich PDAC and not healthy pancreas or other tissues. These results have been
 validated in both induced- and spontaneous PDAC mouse model.

This conjugate can reliably discriminate PDAC from chronic pancreatitis, a well-known challenge, and allows the detection of tumoral foci in excised-liver.
 This study highlights the powerful potential of LDLR-targeting peptides, as vehicles for nuclear imaging probes and/or drugs, and offers hopeful perspectives both in medical imaging for pre-operative diagnosis and in cancer treatments through fluorescence guided-surgery and targeted-drug delivery.