

BIOTECH THERAPY



NEPTUNE

Technology matured by SATT Nord



NEPTUNE is a photosensitizer for non-small cell lung cancer treatment by photodynamic therapy (PDT)

#PDT

#Oncology

#Lung

NEPTUNE and its 3 variants are peptides coupled to a 3rd generation of photosensitizer. The peptide targets a protein overexpressed in multiple cancer.

Actions on tumor and microenvironment (vascular endothelial cells and intratumoral Treg lymphocytes)

in vitro POC :

- better efficacy than 5-ALA on lung tumor cells (A549)
- better efficacy than 5-ALA on glioblastoma cells (U87)
- better efficacy than 5-ALA on bladder tumor cells (HTB9)
- no toxicity without illumination

Synthesis in 3 steps, soluble in aqueous medium



Partnership : Co-development , Licensing

PI : On going

TRL : Hit to lead (3)

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