

# Mucoadhesive and orodispersible patch

Therapeutic proteins or antibodies buccal administration



## REFERENCE

D02379 BUCCAPATCH

## KEYWORDS

DRUG DELIVERY, PROTEINS/ANTIBODIES



## APPLICATIONS

- HEMOPHILIA
- MULTIPLE SCLEROSIS
- ALLERGOLOGY
- ACUTE LEUKEMIA
- VACCINATION



## TARGET MARKETS

- Disabling chronic diseases treatments
- Acute diseases treatment as well as in emergency situation

## Technology readiness level

TRL 3



## INTELLECTUAL PROPERTY

Patent FR 2011592 – 12th november 2020



## RESEARCH TEAM

Laboratoire LBTI UMR 5305

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## DESCRIPTION

The research team has developed a muco-adhesive film by assembling natural polymers. Its surface can then be covered with a protein of interest or with nanoparticles crossing the buccal mucosa in a controlled manner at several sites in the buccal cavity (sublingual, cheek, palate, gingival). This technology would allow an extended administration of a wide range of molecules and in particular recombinant proteins or antibodies.

## COMPETITIVE ADVANTAGES

The final device thus aims to be :

- A new galenic form for disabling chronic diseases treatments
- Non-invasive and biocompatible
- Designed using green chemistry
- Fully biodegradable
- Stored at room temperature

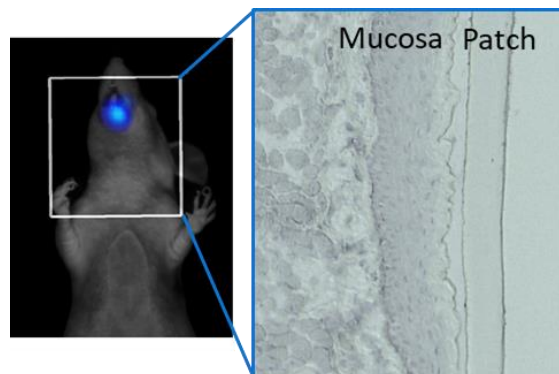
## DEVELOPMENT STATUS

- Initial *ex vivo* and *in vivo* results have demonstrated the efficacy of this localized delivery mode, particularly for sublingual administration.

## PARTNERSHIP

We are looking for an industrial partner in order :

- to perform the proof of concept of an existing/in development therapeutic molecule delivery
- to elaborate the target product profile and the technological development plan



## OUR OPPORTUNITIES

<https://www.pulsalys.fr/our-projects/>

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