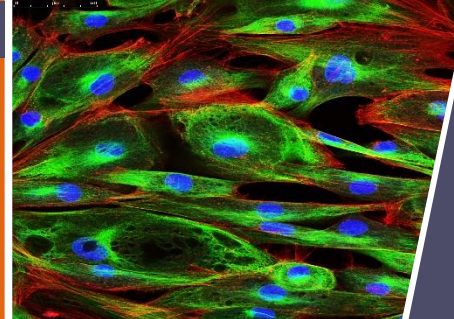


# In cellulo-screening tool for protein –protein interaction

Health / R&D tool / Molecular biology



## REFERENCE

ICPPI [L1522]

## KEYWORDS

PROTEIN INTERACTION /  
MOLECULAR BIOLOGY /  
ORFEOME / SCREENING



## APPLICATIONS

- R&D tool in Molecular Biology for protein-protein interaction analyses
- Screening tool of therapeutic molecules targeting a protein of interest



## TARGET MARKETS

- Pharmaceutical & biotechnology laboratories
- Contract research organizations (CRO)

## Technology readiness level

TRL 6-7



## INTELLECTUAL PROPERTY

Patent application pending FR1655539

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## DESCRIPTION

A new Molecular Biology tool has been developed to screen for interactions between a protein of interest, and the pool of proteins of an ORFeome (15000 proteins), through Bimolecular Fluorescence Complementation (BiFC). This technology lies on immortalized and transformed cell banks that are transfected with a plasmid incorporating the protein of interest, and on a detection of protein-protein couples by FACS (Fluorescence-activated cell sorting). It allows an accurate and reliable method to study the impact of protein inhibitors or promoters for drug development.

## COMPETITIVE ADVANTAGES

- Test on human cells : more reliable and reproducible than yeast double hybrid method,
- Easier to achieve compared to immunoprécipitation,
- Adaptable to any type of cell lines and ORFeomes,
- Possible identification of 2 protein partners in one single experiment (bicolor testing)

## DEVELOPMENT STATUS

- Proof of concept validated on a protein of interest
- Available immortalized cell banks : HEK, MDA-MB231, Pc-3
- Adaptable to any protein of interest

## PARTNERSHIP

PULSALYS is looking for industrial partners interested in using this technology for their own activities, or to commercialize it.



## OUR OPPORTUNITIES

[www.pulsalys.fr/entreprise/offres-technologies/](http://www.pulsalys.fr/entreprise/offres-technologies/)

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