

EXPOBACT

BACTERIA-BASED PLATFORM FOR ENGINEERING AND FUNCTIONALIZING ENTITIES



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PARTNERSHIPS

Licensing
R&D collaboration

INTELLECTUAL PROPERTY

Patent pending
Functioning platform available



PROBLEM ADDRESSED

Modern biotechnology tools, particularly in the field of microbial genetics, **new enzymes, proteins and genes** are in high demand for various industries.

Cost efficient and performant solutions for **transmission of desired characteristics** through protein engineering *in vivo* represent a real challenge.

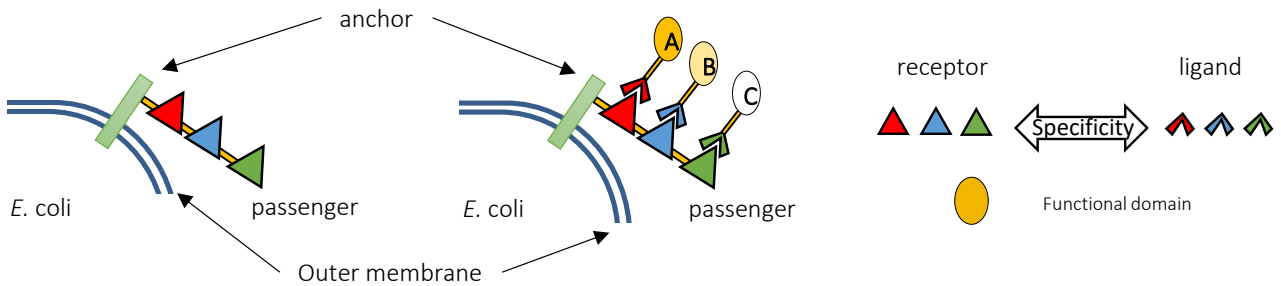


TECHNOLOGY

A new **functionalization system** of the bacterial surface based on the combinative use of:

- Engineered bacterial multienzymatic complexes and
- Novel cell surface exposure method.

The system makes it possible to **expose several proteins or enzymes of interest**, not naturally present in the same bacterium on the surface of the bacterium. A particular structure composed of specific pairs of interacting domains (K_D around 10^{-10} M) make it possible.



APPLICATIONS AND ADDED VALUE

Agri-food sector

- Speed and chain reaction;
- Fast recovery of product of interest

Therapeutics

- Synthesis of desired drugs by chain reaction

Vaccination

- Multiple antigens exposure
- Living vaccine

Decontamination

- Removal of toxic metals from contaminated fluids

