ves4us

Extracellular vesicles from a natural source for tailor-made nanomaterials

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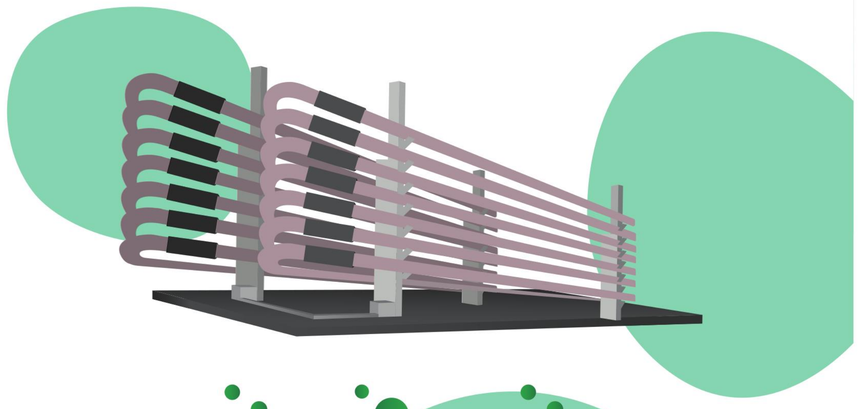
FROM A NATURAL SOURCE...

Phase 1:
EVs PRODUCTION:

Selection of the natural source and optimization of culture condition at pre-industrial scale.



Phase 2:
ISOLATION AND CHARACTERIZATION:

Isolation and physiochemical characterization of the extracellular vesicles.

Phase 3:
FUNCTIONALIZATION AND LOAD:

Functionalization and load of the EVs selected from the previous phase. These vesicles may differ according to the different sector needs.

Phase 4:
BIOLOGICAL ACTIVITY:

Biological activity of the EVs explored both in vitro and in vivo

TO A COMMERCIAL PRODUCT

EXPECTED RESULTS

- **Technology for high-throughput isolation of natural-source derived Evs**
- **Definite EVs tailor-made nanodevices**
- **Provide a new european perspective on frontier biotechnology**
- **Give training and career development in high quality knowledge-based biotechnology**

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