

# Programme: Horizon Europe

Project Start Date: 01/01/2023

Project Duration: 72 months

**Project ID:** 101182851

**Call for proposals:** HORIZON-MSCA-SE-2023

**Coordinator:** Hemijski fakultet, Univerzitet u Beogradu

**Project participants:** 12

**Project value:** 1,357,000.00€

**Genos contribution:** 230,300.00€

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## EXPAND-EV

EXPANDing the value of Extracellular Vesicles as carriers of biomarker and therapy in precision healthcare

Extracellular vesicles (EVs) are key players in cell communication, involved in both normal and disease processes. Despite their potential in healthcare (particularly in drug delivery and diagnostics), progress is hindered by limited technological readiness and the absence of standardised guidelines. Current methods for EVs purification are inefficient, which restricts their application in personalised medicine. A breakthrough is needed to fully harness their capabilities in non-invasive diagnostics and targeted therapies. With the support of the Marie Skłodowska-Curie Actions programme, the EXPAND-EV project aims to solve this by developing scalable, cost-effective EV purification systems. These systems will enhance cancer diagnostics for lung, breast and liver malignancies, while at the same time exploring edible plant-based EVs as carriers of therapeutic molecules.