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EXPAND-EV

EXPANDING the value of Extracellular Vesicles as carriers of biomarker and therapy in precision healthcare - 101182851

Milena Čavić

Institute for Oncology and Radiology of Serbia



BIOLAWEB

BIOLAWEB - ICPO Info dan
27.08.2025.



EXPAND-EV

Kick-off meeting, 23 January 2025



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Project overview



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

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Project Information

EXPAND-EV

Grant agreement ID: 101182851

DOI

[10.3030/101182851](https://doi.org/10.3030/101182851)

EC signature date

19 August 2024

Start date

1 January 2025

End date

31 December 2028

Funded under

Marie Skłodowska-Curie Actions (MSCA)

Total cost

No data

EU contribution

€ 1 357 000,00



Programme(s)

[HORIZON 1.2 - Marie Skłodowska-Curie Actions \(MSCA\)](#) MAIN PROGRAMME

Topic(s)

[HORIZON-MSCA-2023-SE-01-01 - MSCA Staff Exchanges 2023](#)

Call for proposal

[HORIZON-MSCA-2023-SE-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-TMA-MSCA-SE - HORIZON TMA MSCA Staff Exchanges](#)



EXPAND-EV

Kick-off meeting, 23 January 2025

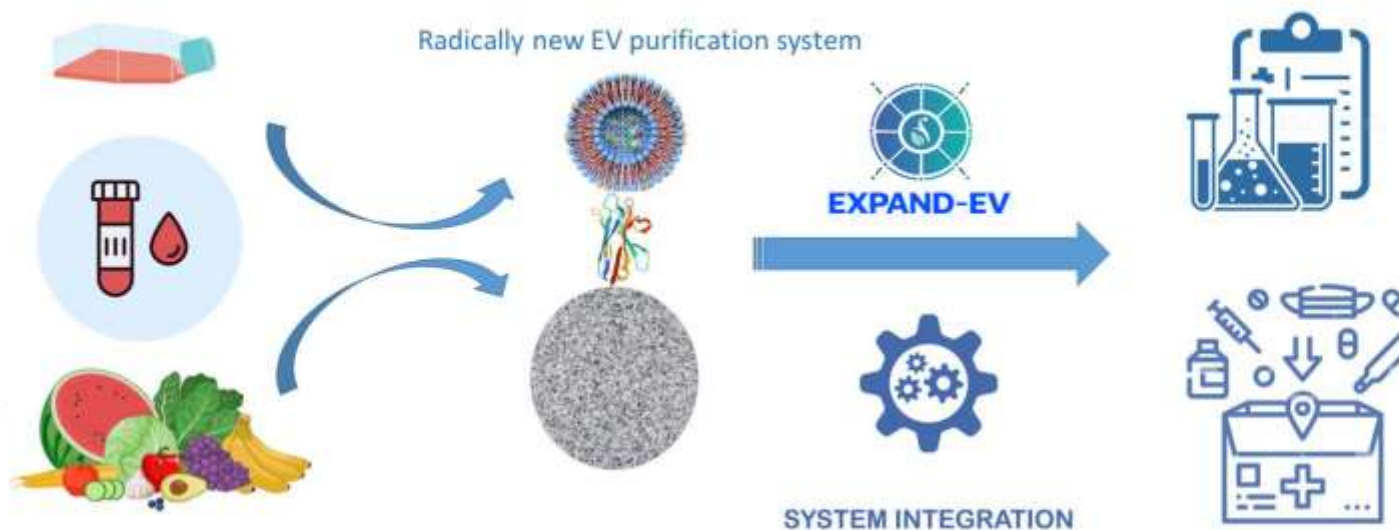


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EXPAND-EV Aims

EXPAND-EV **main goal** is to **provide a unique solution for advancing the current theranostic potential** of EVs by developing and implementing versatile, scalable and cost-effective purification system based on single-domain antibody fragments (nanobodies, NbS) as capturing agents

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



EXPAND-EV Aims

EXPAND-EV is structured around two primary research areas:

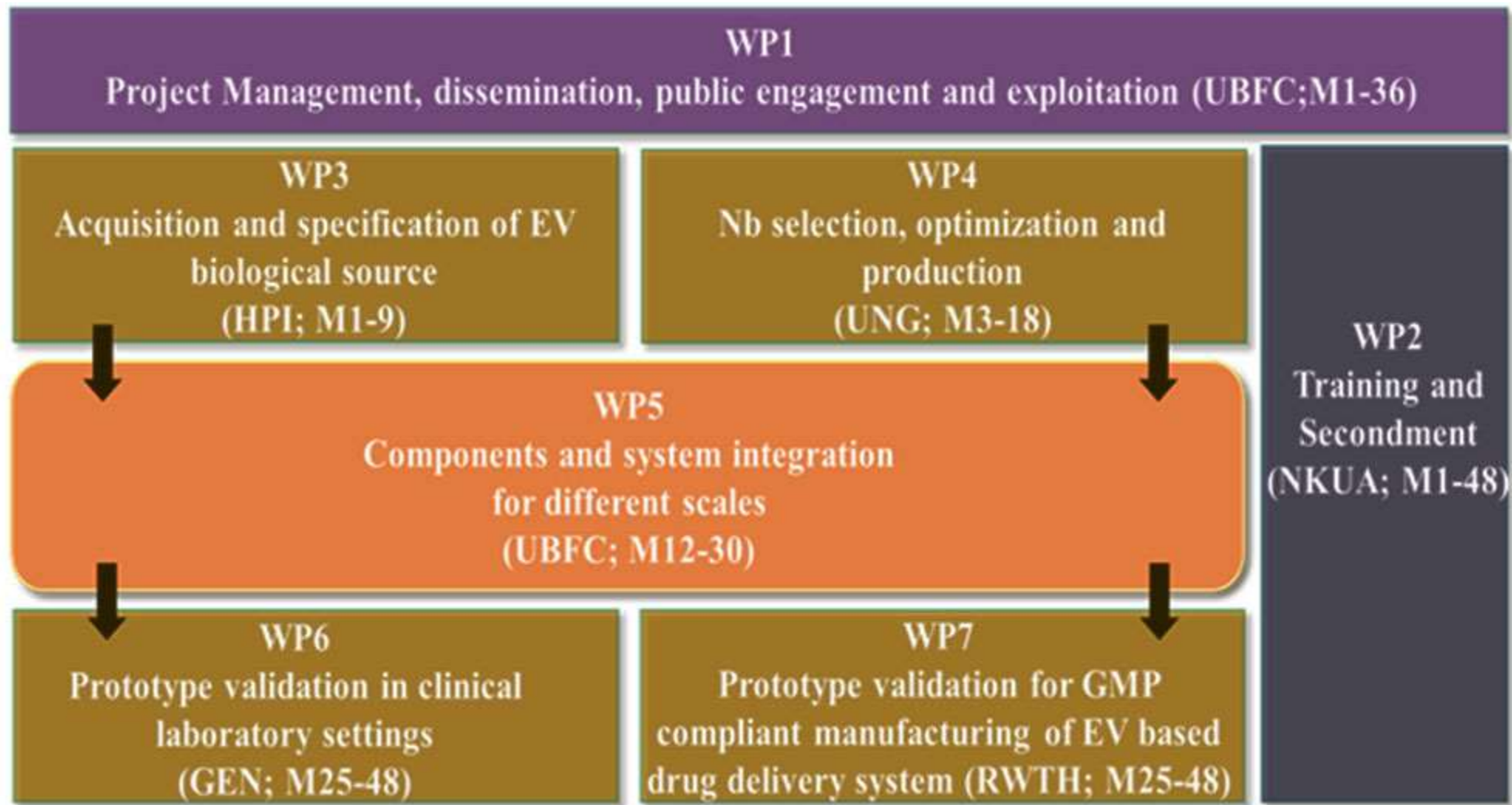
Advancing Liquid Biopsy for Cancer Diagnosis

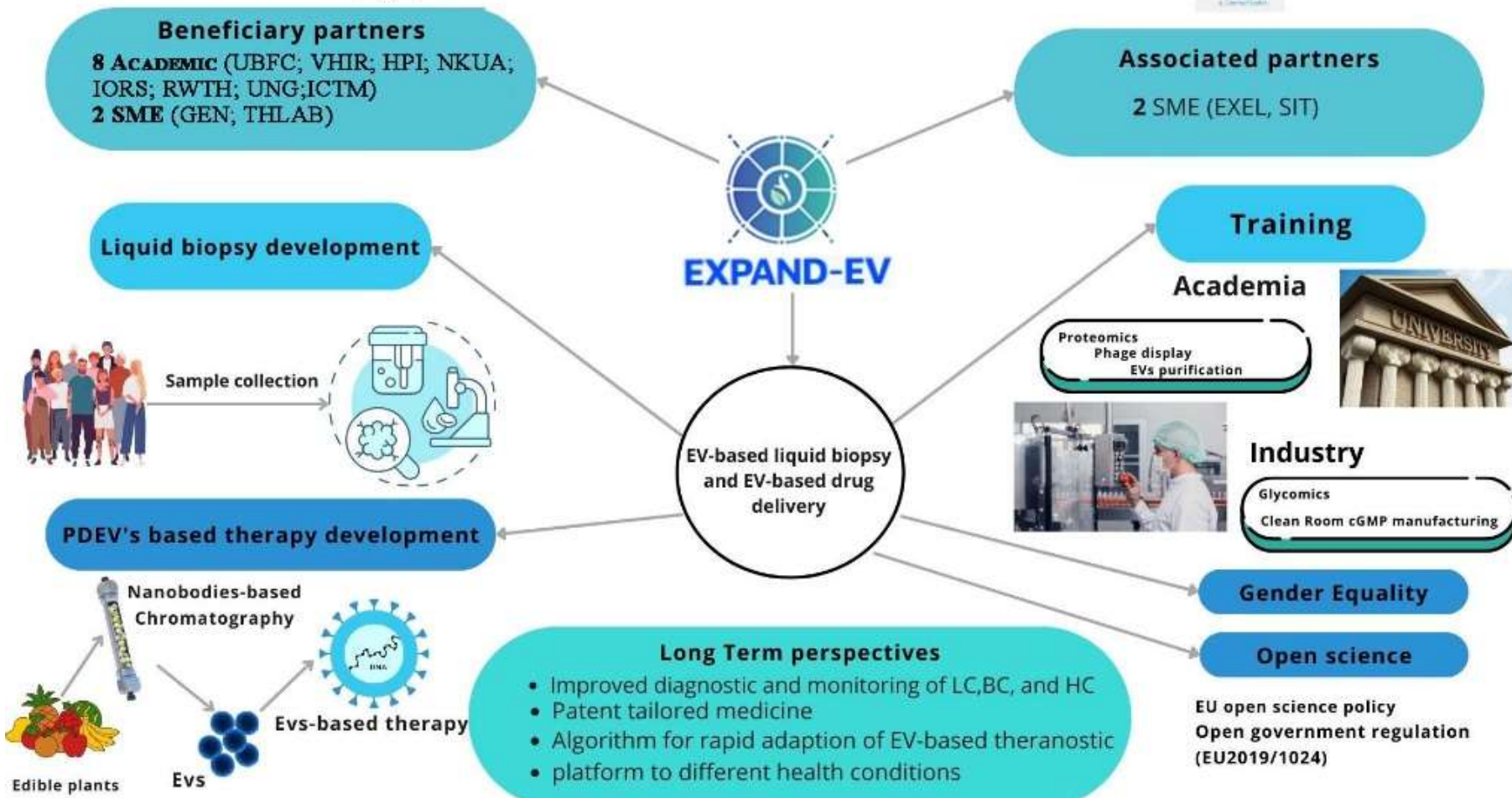
The project will validate the EV purification system in clinical laboratories using samples from breast, liver, and lung cancer patients. By analyzing the proteomic, glycomic, and transcriptomic signatures of EVs, researchers will identify new biomarker panels. These biomarkers will facilitate early cancer detection, non-invasive prognosis, and the development of personalized therapeutic strategies.

Developing Plant-Derived EVs for Drug Delivery

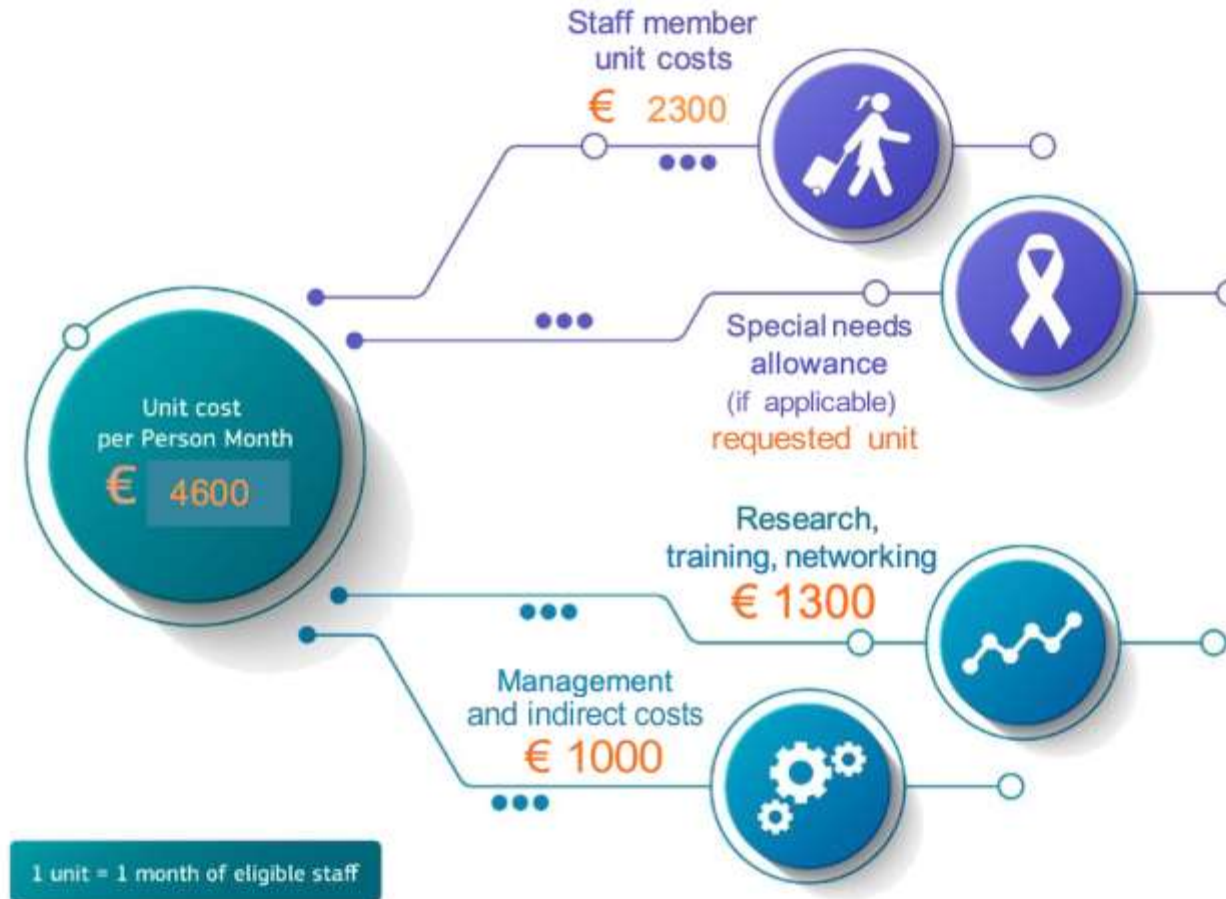
EXPAND-EV is pioneering the use of edible plant-derived EVs (PDEVs) as natural carriers for therapeutic small interfering RNA (siRNA) molecules. The project will establish Good Manufacturing Practice (GMP)-compliant protocols to produce these PDEVs and evaluate their safety and efficacy in preclinical cancer models. This research has the potential to create a non-invasive, sustainable, and effective drug delivery platform.

EXPAND-EV structure





MSCA SE Budget categories



MSCA SE Secondment rules

		"HOSTING" (receiving seconded staff members)			
"SENDING" (sending staff members from organization)		Academic organisation in MS/AC (1)	Non-academic organisation in MS/AC (2)	Associated Partners eligible for funding	Associated Partners non-eligible for funding
	Academic organisation in MS/AC (1)	1/3	✓	✓	✓
	Non-academic organisation in MS/AC (2)	✓	1/3	✓	✓
	Associated Partners* eligible for funding	✓	✓	✗	✗
	Associated Partners non-eligible for funding	✗	✗	✗	✗

1/3 This symbol refers to same sector secondments up to 1/3 of the total implemented secondments funded by the EU as long as they are demonstrated to be interdisciplinary.

* Associated Partners eligible for funding (see List of Participating Countries in Horizon Europe)



EXPAND-EV challenges Year 1

Amendment in the first year

Budget issues – national and internal regulations

Secondees – availability of staff

Sending institutions – feasibility of staff for travel

Cross-checking yearly secondment months (fluidity of host institutions)

Personnel changes

Unpredictability of staff personal issues



EXPAND-EV

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EXPANDing the value of Extracellular Vesicles

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https://www.instagram.com/expand_ev_msca/?igsh=bXFqbzc1YTZ4Mm94

<https://www.linkedin.com/showcase/expand-ev-eu-project/posts/?feedView=all>



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milena.cavic@ncrc.ac.rs

www.stepupiors.eu

STEPUPIORS

Twinning for a European Consortium of Rectal Cancer Research Institutions through Stepping up Scientific, Technological and Innovation Excellence of IORS



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Project number: 101079217



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stepupiors

stepupiors

stepupiors@gmail.com

@stepupiors



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