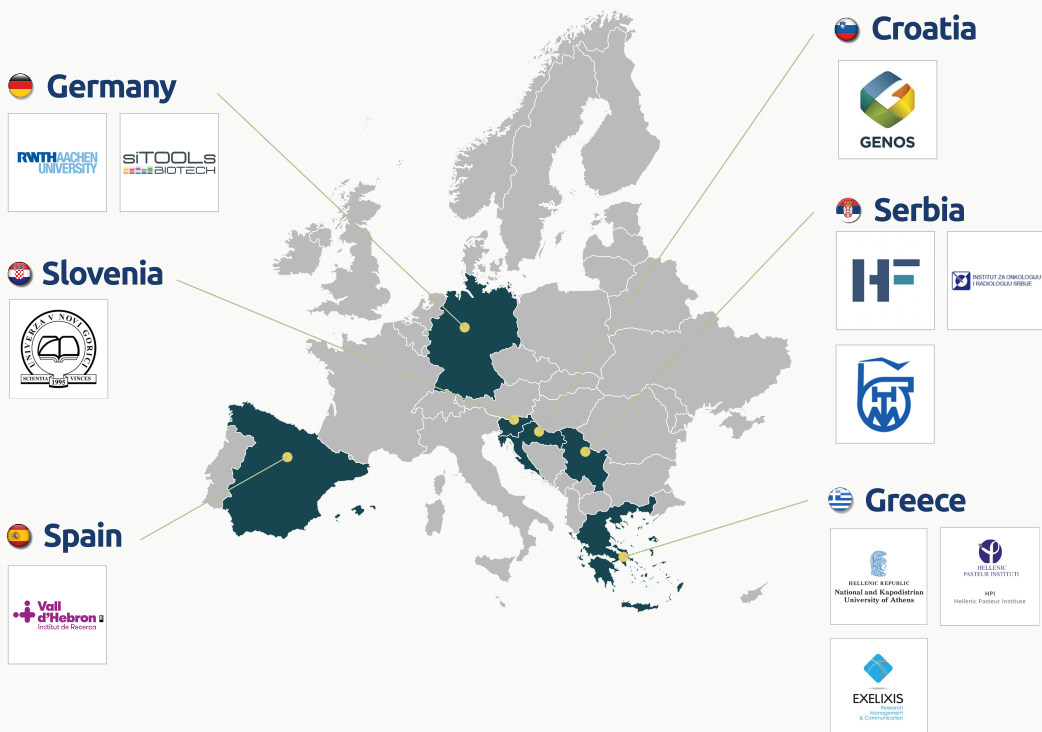


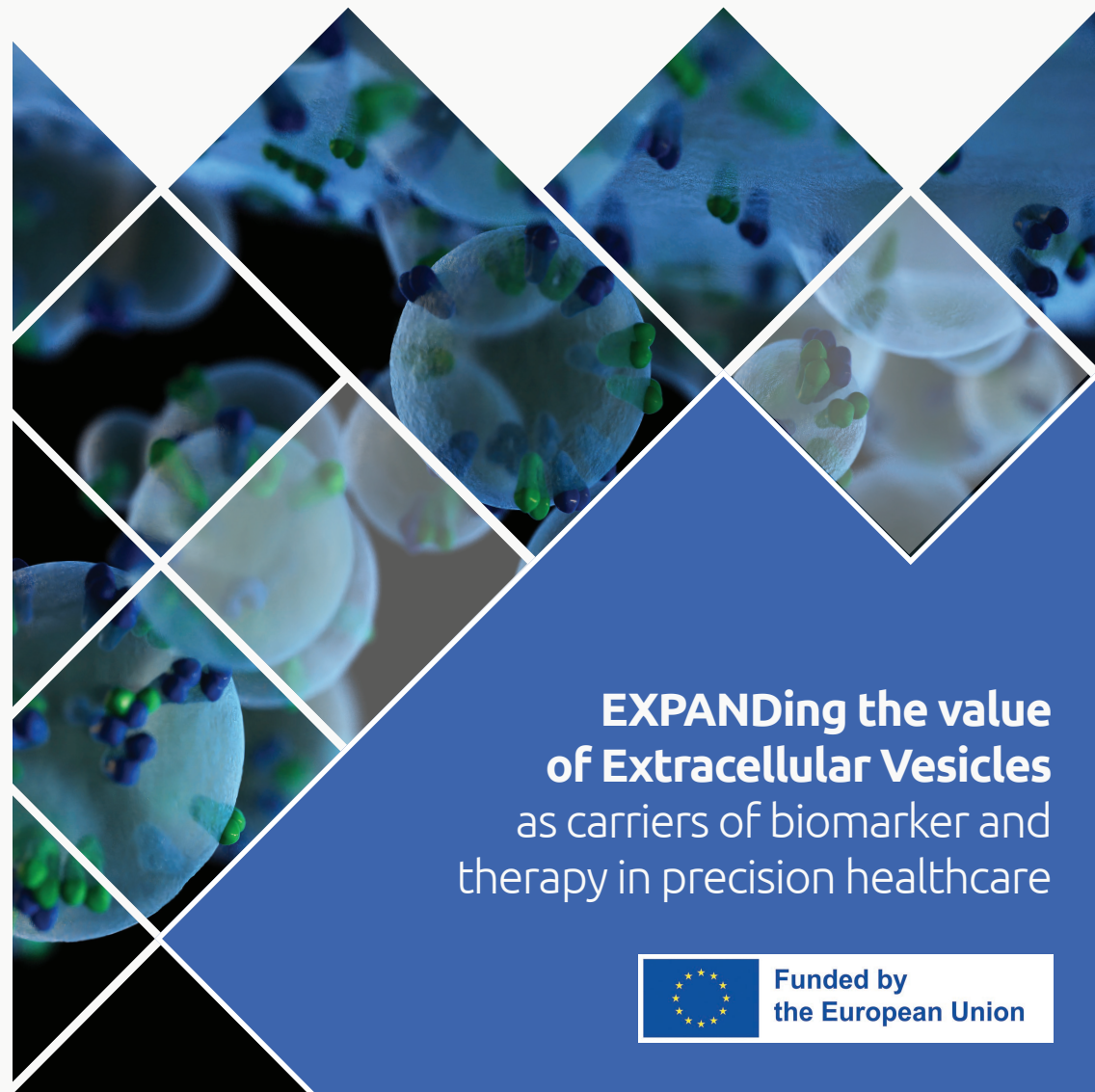
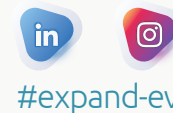
Consortium



expand-ev.eu



EXPAND-EV



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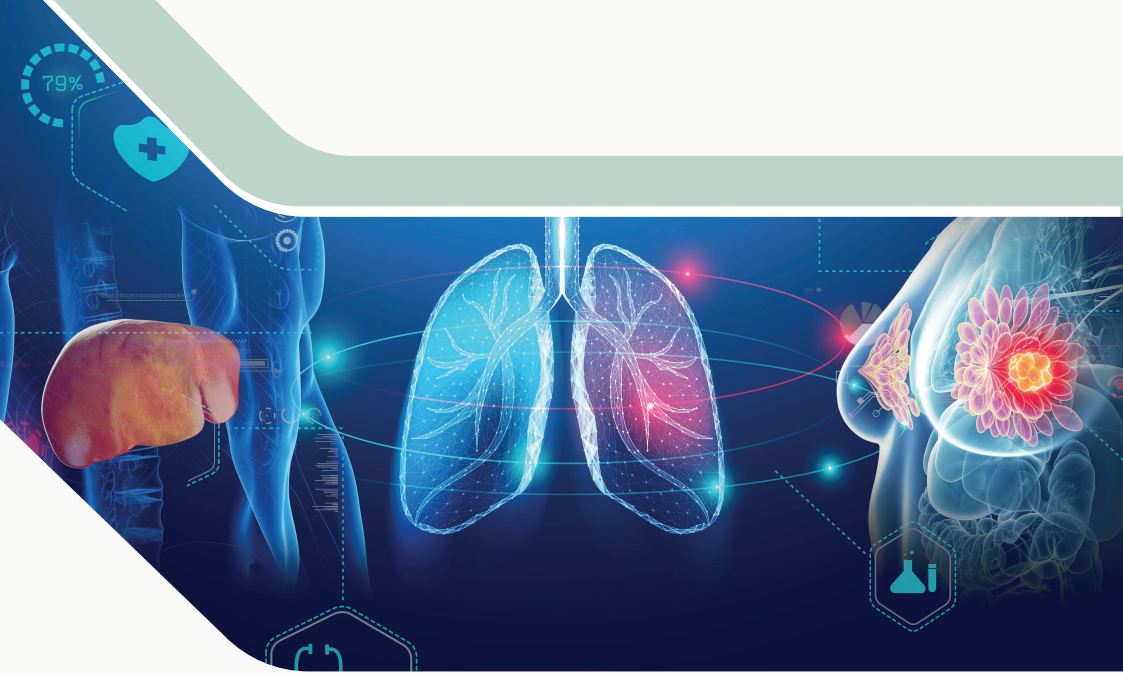
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**EXPANDING the value
of Extracellular Vesicles**
as carriers of biomarker and
therapy in precision healthcare



Funded by the European Union under Grant Agreement No. 101182851.
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The EXPAND-EV project will implement a comprehensive knowledge-sharing strategy built around secondments and training events. This framework promotes the exchange of expertise, methodologies, and best practices among all partners, creating a dynamic research environment that fuels innovation and impact.



Secondments will both advance the project's scientific objectives and strengthen the skills of participating staff. The network's international and intersectoral structure will enhance capacity building through training in:

EXPAND-EV is a Marie Skłodowska-Curie Actions Staff Exchanges project (Grant 101182851) launched in January 2025. It addresses one of the main barriers in precision medicine, the lack of efficient and standardised methods for purifying extracellular vesicles (EVs).

The project develops scalable, cost-effective purification systems to unlock EVs' potential in cancer diagnosis and therapy. These will be validated for **lung, breast, and liver cancers**, while **edible plant-derived EVs** will be explored as natural carriers for therapeutic molecules.

By combining innovative purification technologies with advanced biomarker discovery, EXPAND-EV aims to bring EV-based diagnostics and treatments closer to clinical practice. The project's dual focus includes:

► Next-Generation Cancer Diagnostics:
Validating EV-based liquid biopsy systems for early detection and personalised oncology.

► Innovative Drug Delivery:
Harnessing plant-derived EVs as sustainable, safe, and effective carriers for novel therapies.

- Laboratory techniques (e.g., antibody production, EV isolation, cancer biology)
- Transferable skills (e.g., grant writing, intellectual property rights, entrepreneurship)

Knowledge transfer across the consortium will deepen collaboration with national and international research networks, opening new grant opportunities. Academic partners will gain expertise in commercialising research results, while SMEs will benefit from scientific input to adapt to emerging market demands.

The secondment programme will include doctoral and postdoctoral exchanges, with extended placements designed to maximise knowledge sharing and build long-term collaboration.

