

Integration of **purification** and **analysis** in a single platform

Fully automated system

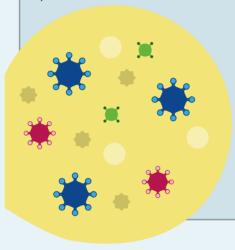
BIOFLUIDS (plasma)



Exosomes are nano-sized extracellular vesicles **(EVs)** released into body fluids such as plasma. They carry cell-specific macro-molecules and can be used as a new class of biomarkers.

ISOLATION AND PURIFICATION PHASE

The system performs the magnetic isolation of pure desease-related EVs from other EVs and plasma particles.



Thanks to specific tags, disease-specific EVs are labeled...

...allowing for magnetic beads mediated separation.

Non related EVs, excess plasma and waste are expelled.



Detection of EVs' protein profile



Separated EVs are released from beads and...

ADVANTAGES:



Unprecedented specificity and sensitivity in the analysis of EVs protein markers



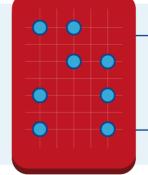
Minimal sample processing with in-line sample purification and analysis



Fully automated: more robust process, less hands-on and turnaround time



Clinically validated for prostate cancer stratification and prognosis



OUTPUT

...recaptured on the surface of Nexus' microchip and then

...leading to a multiparameter analysis of vesicle size, number and type



Faster and more accurate liquid biopsy diagnosis

FOR THE PATIENT:

- less invasive procedures
- earlier and more accurate diagnosis
- real-time monitoring
- high precision and effective therapies

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