



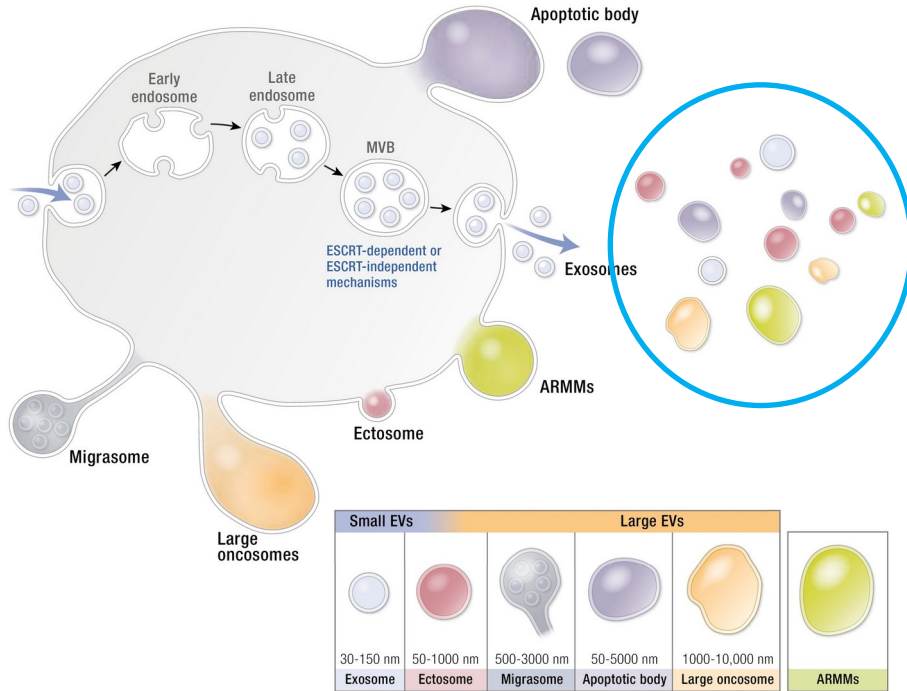
Preterm Birth International Collaborative Australasia Workshop

21 March 2023

Enabling EV-based Biomarker Discovery and Diagnostics

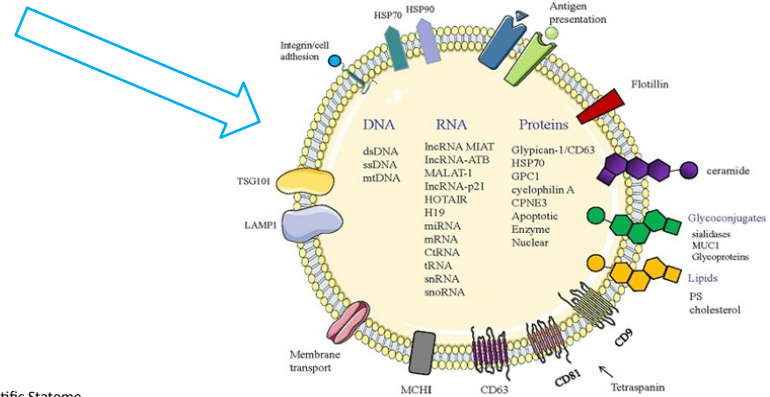


Extracellular Vesicle Biogenesis, Function and Heterogeneity



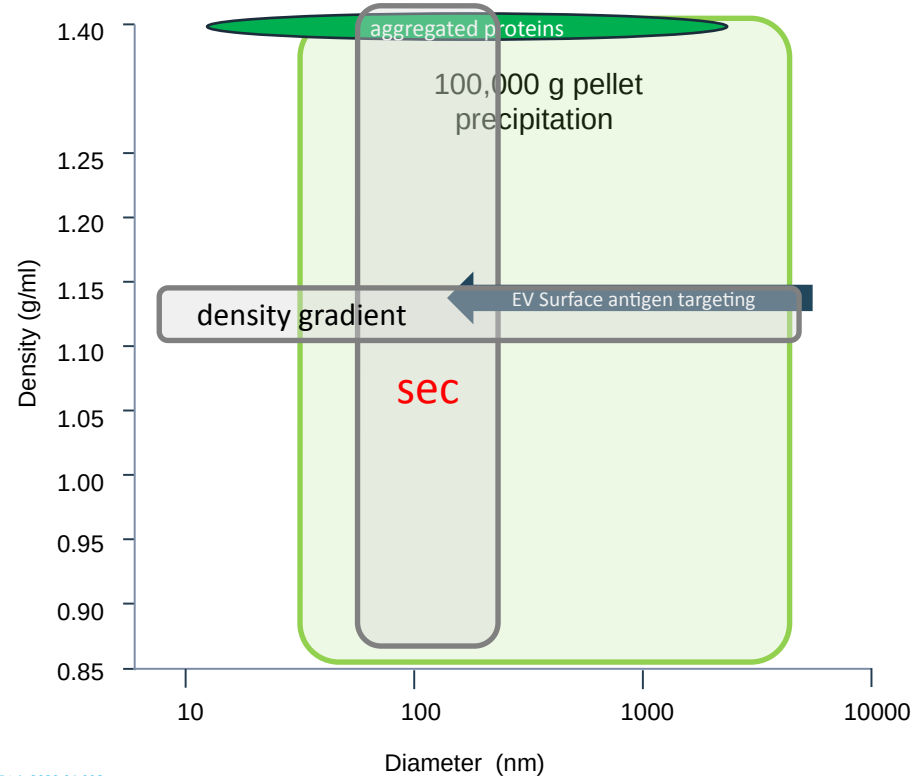
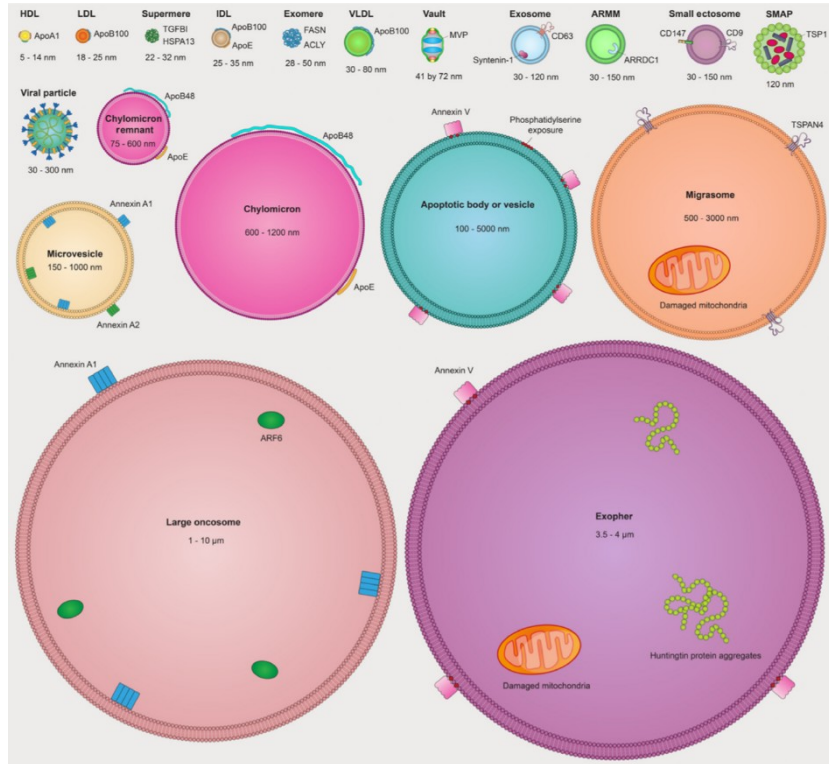
Cells continuously release a diverse population of vesicles (EVs) and nanoparticles in the maintenance of homeostasis

EVs can be captured from biofluids and their messages “read” to determine the disease or health status of a cell.



Salomon *et al.*, (2022) Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Stature

EVs | Multiple Type – non-specific methods of isolation confound data interpretation



Jeppesen *et al.*, (2023) Extracellular vesicle and nanoparticles: emerging complexities, Trends in Cell Biology DOI: <https://doi.org/10.1016/j.tcb.2023.01.002>

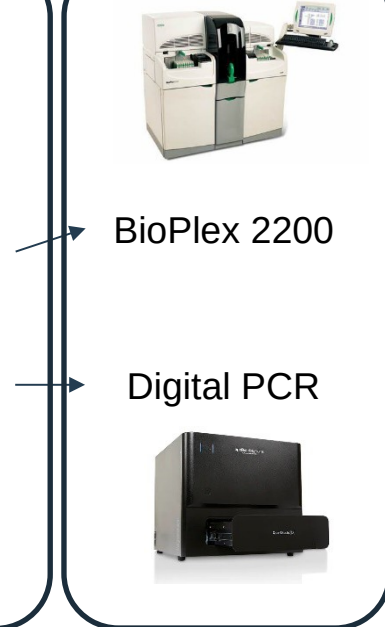
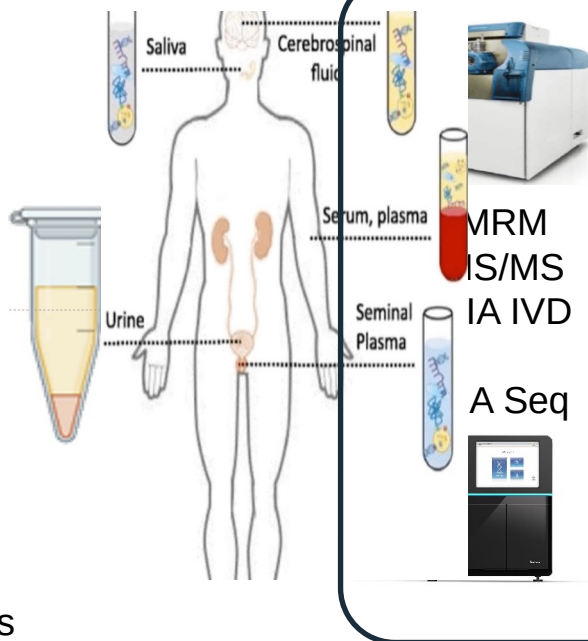
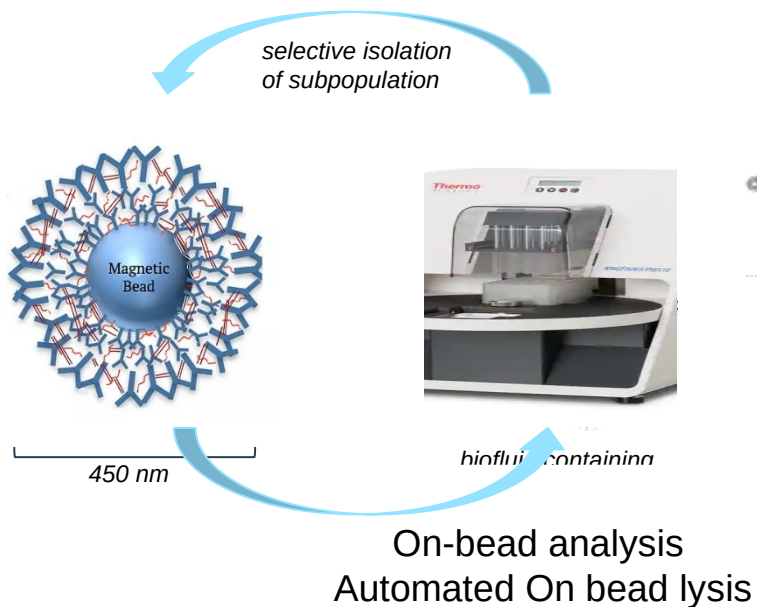


EXO-NET

- Magnetic bead-based immunoaffinity EV capture system (10 epitopes)
- On-Bead analysis or On-Bead lysis for downstream RNA, Protein or Lipid analysis
- Manual or Fully automated high-throughput isolation

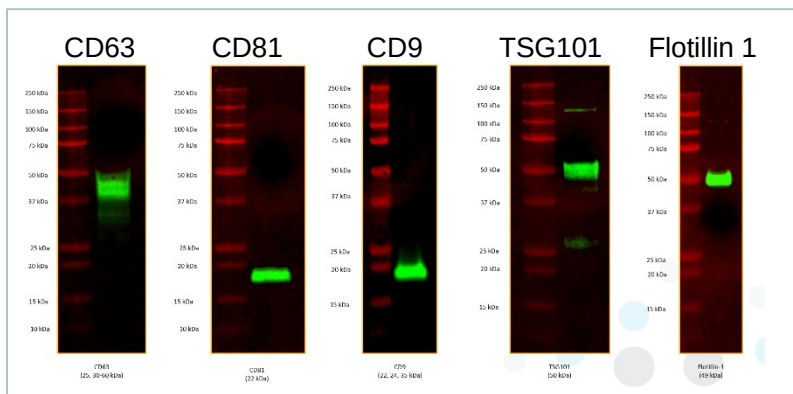
Discovery

Delivery

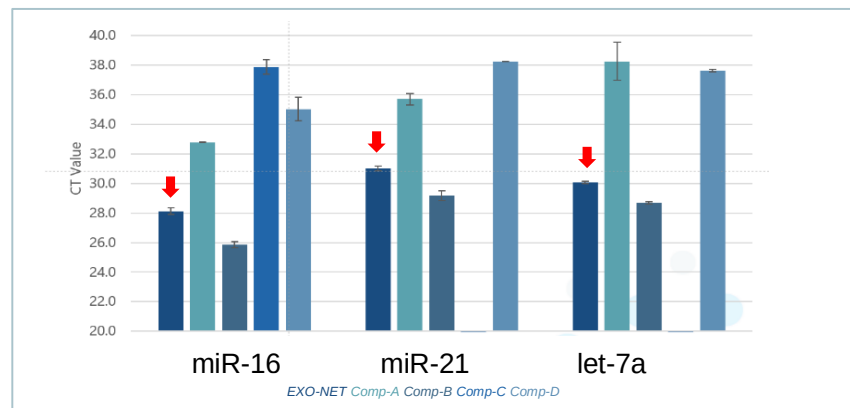




EXO-NET plasma lysate contains canonical EV proteins

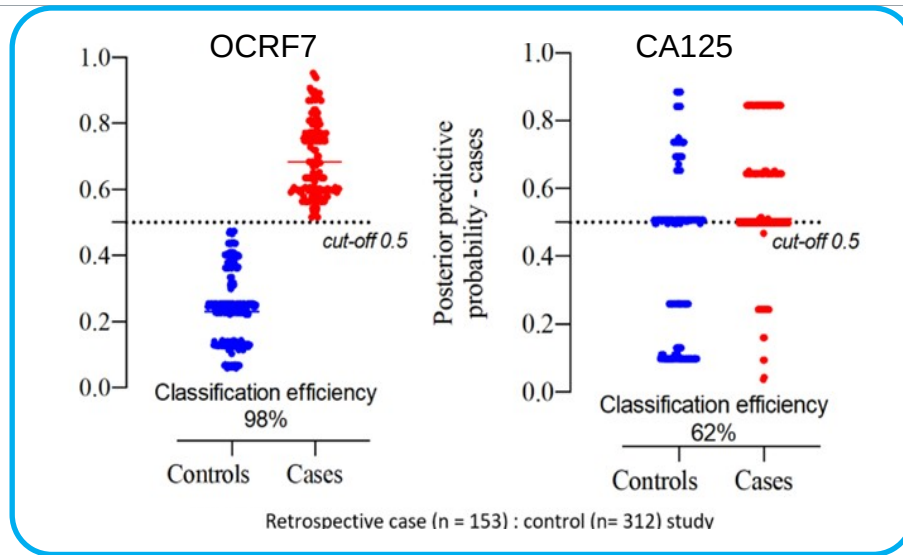
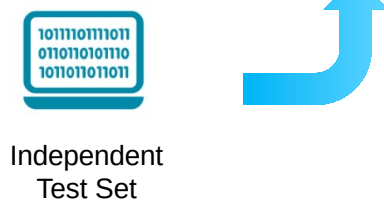
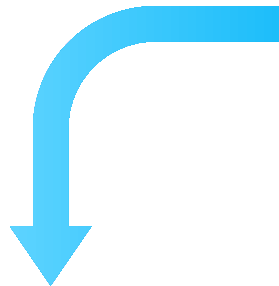
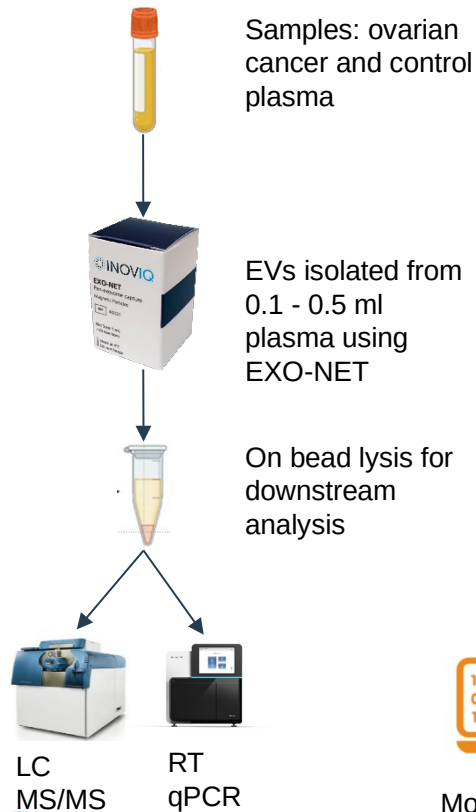


EXO-NET plasma lysate contains canonical EV miRNAs

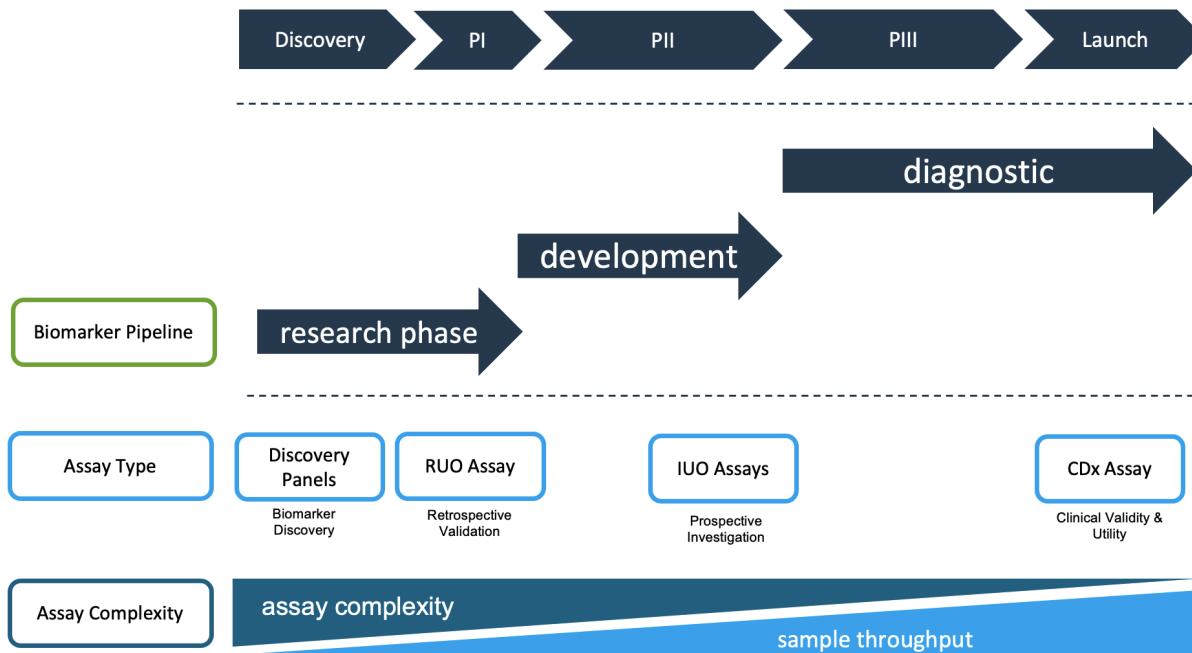


EXO-NET

Commercial Kits



Enabling EV-based diagnostics - CTA, CDx & Dx



EXO-NET	manual	48 per batch	96 per batch	HT automation
samples/day	40	240	480	1000





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Products > EXO-NET® Pan-Exosome

Our Products

- hTERT ICC Test
- EXO-NET® Pan-Exosome**
- Product Technology & Features
- Workflow and Performance
- Product Ordering
- Resources

Introducing EXO-NET® Pan-Exosome Capture

Exosomes are a sub-fraction of a much broader population of extracellular vesicles (EVs). They are 30-150nm particles secreted from most cells, including cancer cells, into biofluids including plasma, urine, saliva, cerebral spinal fluid (CSF), breast milk, serum, amniotic fluid, synovial fluid, and tears. EVs are not only recognised as fundamental elements in intercellular communication between cells but also play important roles in preventing or promoting various diseases including cancer, infectious diseases, neurological disorders, and metabolic disorders. The content, or cargo, of EVs consist of nucleic acid (microRNAs, mRNAs, and DNA), lipids and proteins. These specific cargos facilitate both normal physiological and pathological (disease) processes. EVs represent valuable sources of critical information, with potential uses in the early diagnosis, prognosis, and potentially treatment of different type of cancers and other chronic disease. That is why exosomes represent an exciting new avenue of diagnosis.

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