Isolation of Extracellular Vesicles

RECOVERY AND SAMPLE SOURCES

Superior Recovery of EVs

- AcouTrap gives over 80% recovery of CD62E+ EVs from human plasma
- Less than 20% recovery using centrifugation

Wider Size Distribution of EVs

- AcouTrap isolation gives wider size distribution of plasma CD62E+ EVs
- Higher concentration and more small EVs than centrifugation

Data from:
Bryl-Górecka et al. Lab on a Chip 18(20) 2018
Effect of exercise on the plasma vesicular proteome: a methodological study comparing Acoustic Trapping and Centrifugation: Post enrichment, EVs were stained with PE-conjugated anti-CD62E Ab and 20,000 events for each of 3 sample per condition assessed with Accuri C6 (Top) and assessed with NanoSight LM10 (Bottom)
**AcouTrap**
Isolation of Extracellular Vesicles: Recovery and Sample Sources

## DIFFERENT SAMPLE SOURCES: ACOUTRAP VS CENTRIFUGATION

### Equivalent miR Representation

- qRT-PCR shows similar miRNA levels in AcouTrap (AT) and ultracentrifugation (UC) samples from different sources

### Improved Size Distribution of EVs

- NTA shows size distribution of AcouTrap enriched EVs similar to input sample
- Ultracentrifugation gives increased EV size

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Data from:
Ku et al. Anal. Chem. 90, 2018

Acoustic Enrichment of Extracellular Vesicles from Biological Fluids: Samples were processed and assessed for the Ct values of EV-specific miR markers (Top) and EV size by nanoparticle tracking analysis, NTA (Bottom).