



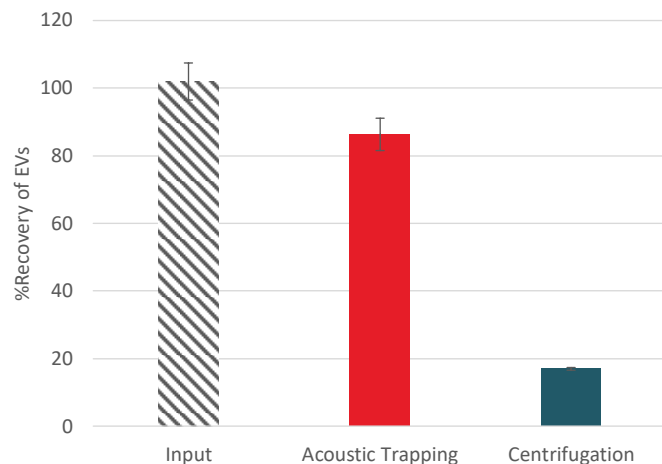
# AcouTrap

## Isolation of Extracellular Vesicles

### RECOVERY AND SAMPLE SOURCES

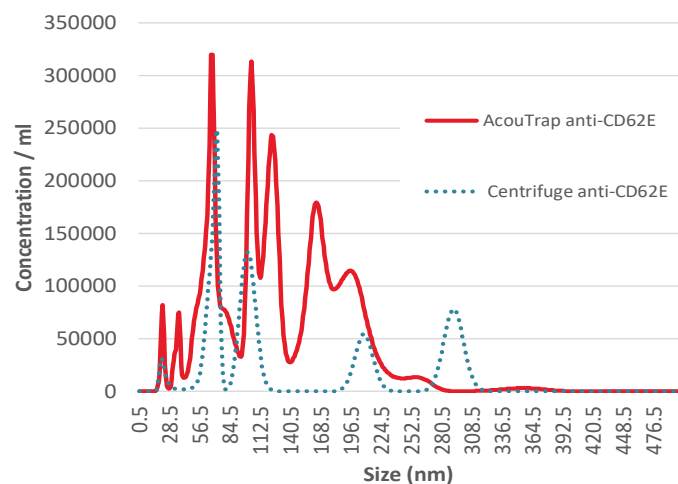
#### Superior Recovery of EVs

- 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

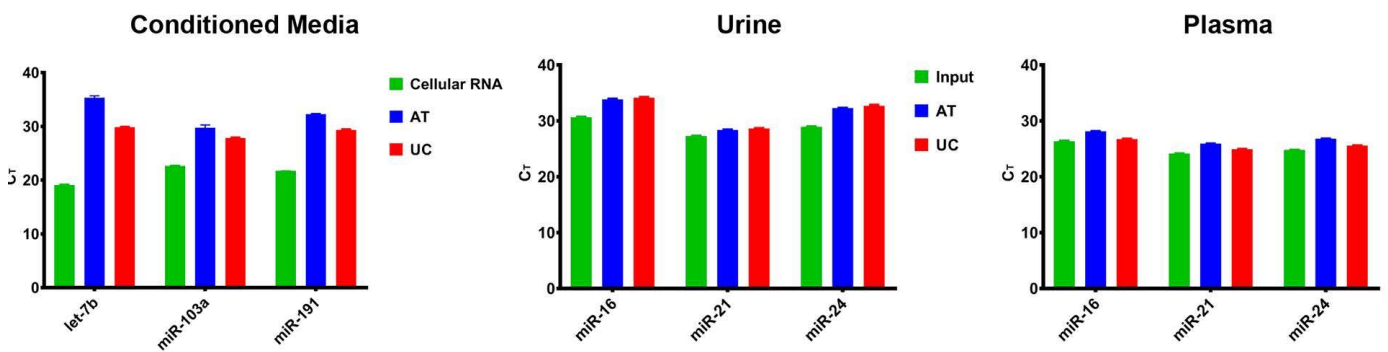
Effect of exercise on the plasma vesicular proteome: a methodological study comparing Acoustic Trapping and Centrifugation: Post enrichment, EVs were stained with PE-conjugated anti-CD62E Ab and 20,000 events for each of 3 sample per condition assessed with Accuri C6 (Top) and assessed with NanoSight LM10 (Bottom)



## DIFFERENT SAMPLE SOURCES: ACOUTRAP VS CENTRIFUGATION

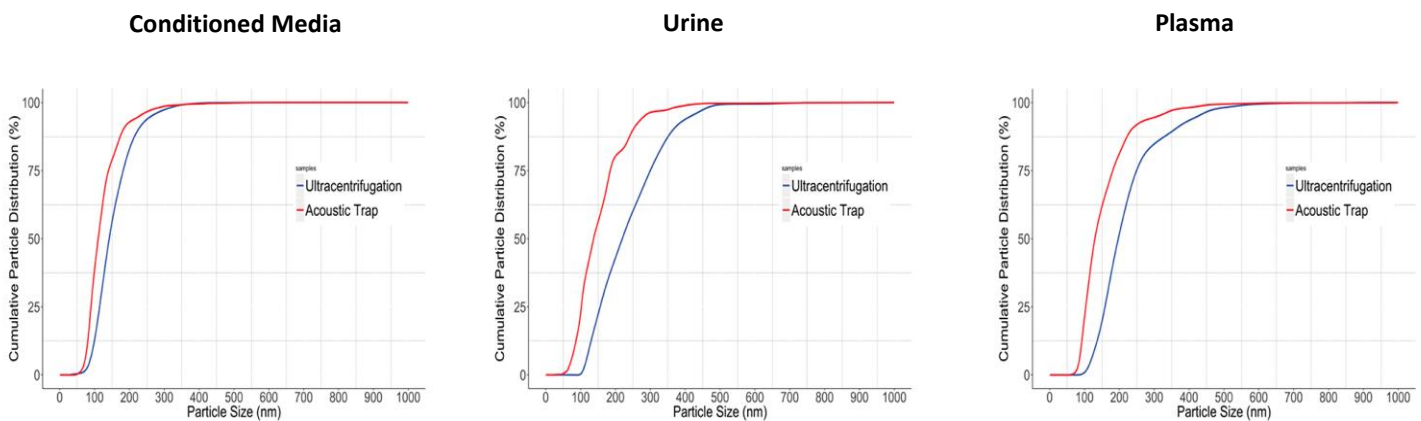
### Equivalent miR Representation

- 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



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).