



Showcasing research on an extracellular vesicle isolation method from Dr. Naside Gozde Durmus's laboratory, School of Medicine, Stanford University, CA, United States.

EV-Lev: extracellular vesicle isolation from human plasma using microfluidic magnetic levitation device

We present a microfluidic-based approach for the high-precision isolation of extracellular vesicles (EVs) directly from human plasma. Non-magnetic polymer beads, functionalized to capture distinct EV subpopulations, are mixed with plasma and levitated within a magnetic field generated by two opposing magnets. The beads are then collected at different outlets based on their density. This method enables precise separation of EV subpopulations and their elution from the beads, providing a straightforward, portable, and scalable workflow.

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Image designed and illustrated by Sena Yaman.

As featured in:



See Naside Gozde Durmus *et al.*, *Lab Chip*, 2025, **25**, 1439.