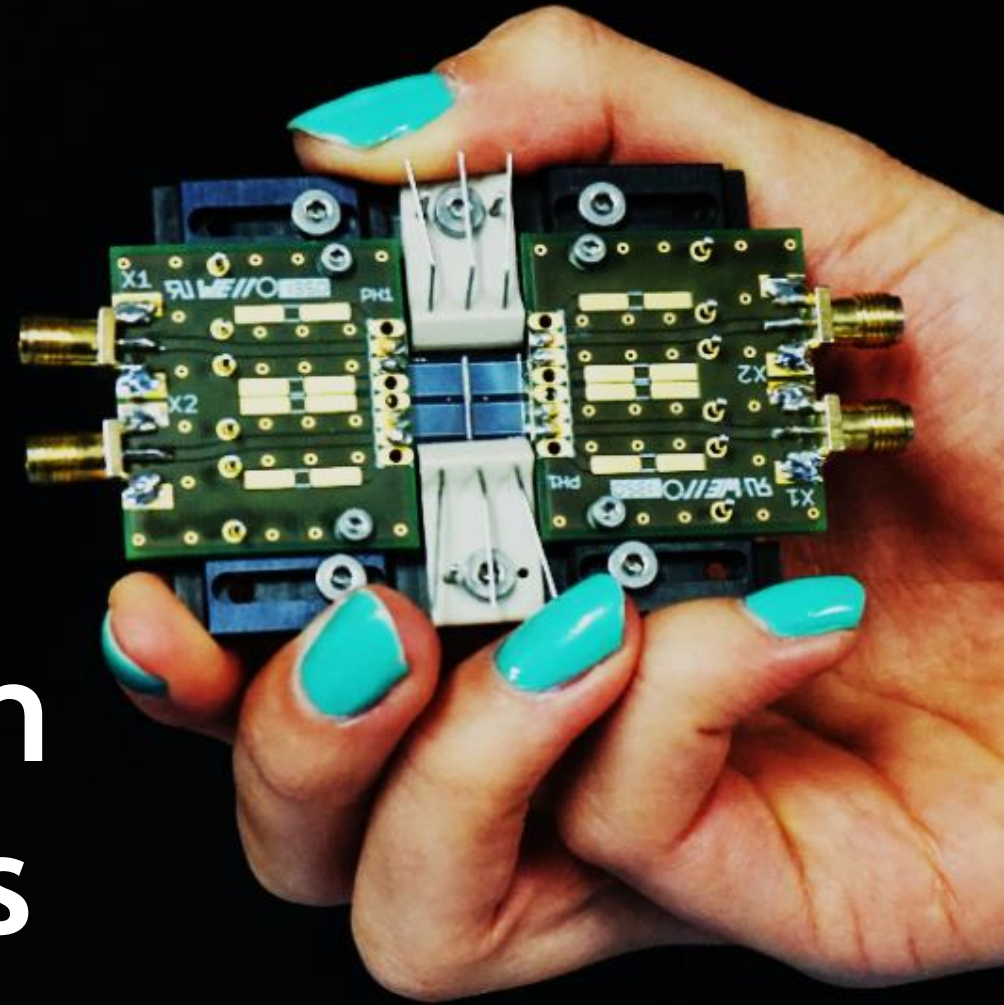


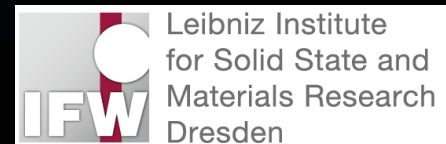
# Zellekt

## Automated separation of exosomes and cells

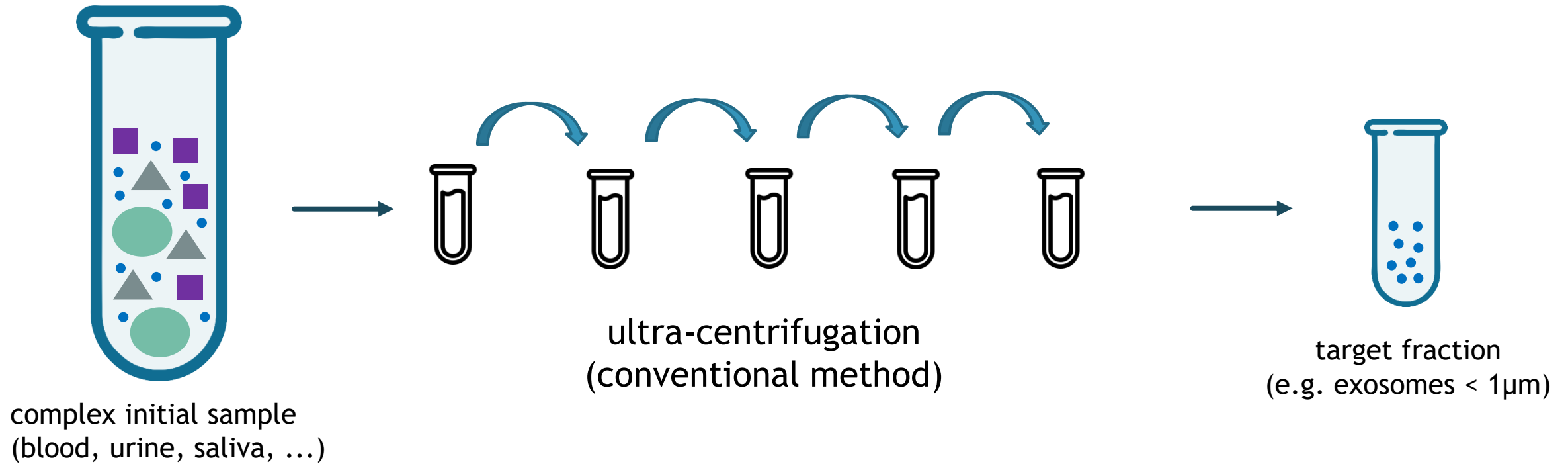
Dr. Andreas Winkler, Dr. Stefanie Hartmann,  
Dr. Uhland Weißker, Dipl.-Ing. Melanie Colditz



An initiative of



# User problem: manual, time-consuming exosome or cell extraction process



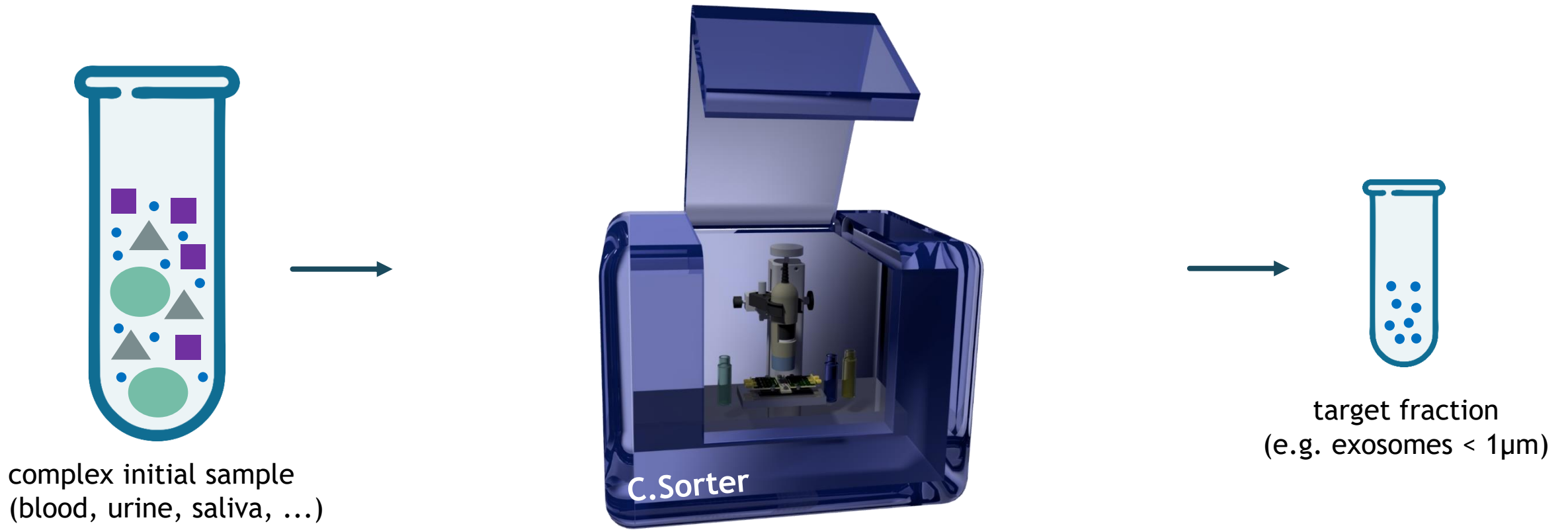
typical exosome isolation protocol with ultra-centrifugation

#7 centrifugation steps

25 h process time

500 € operating & material cost

# Our solution: automated sorting in one step



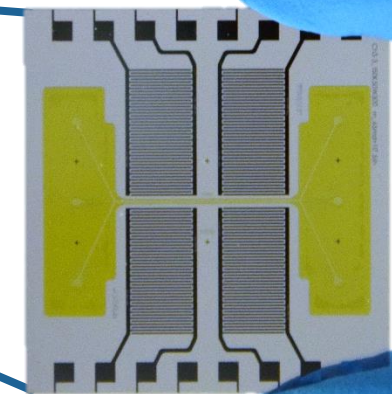
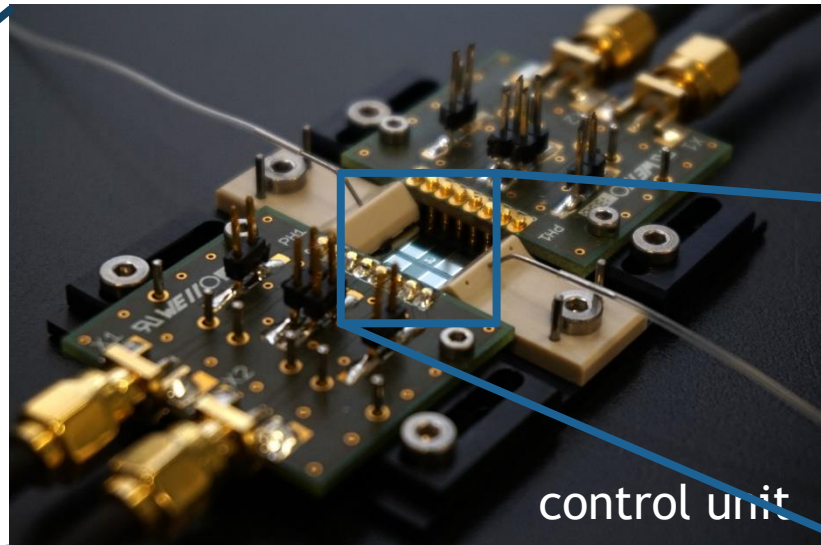
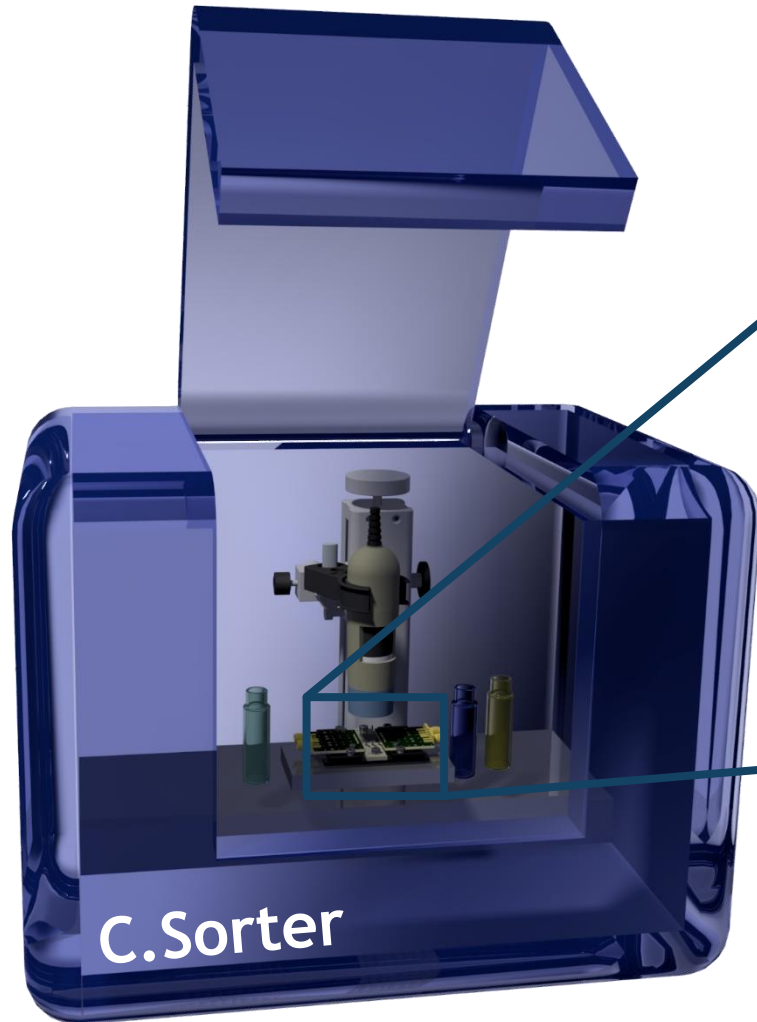
perspective exosome isolation protocol with C.Sorter

#1 separation step

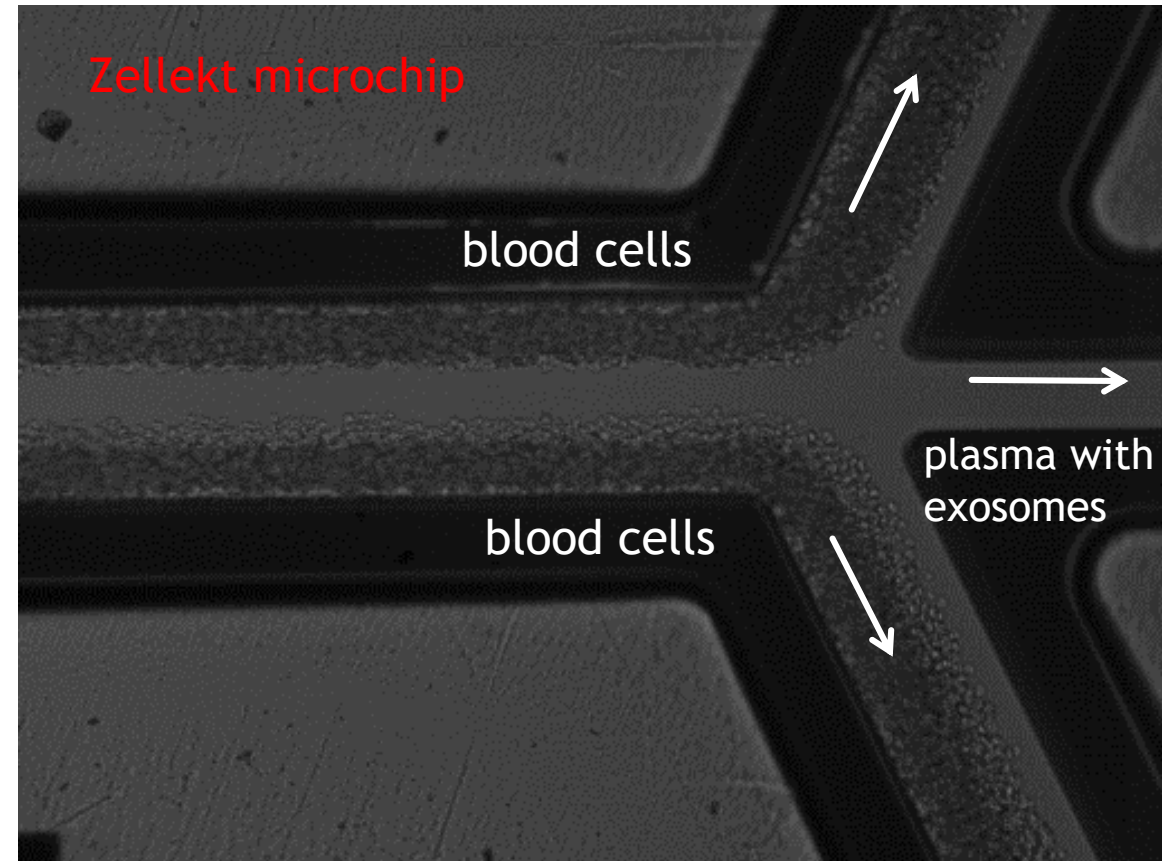
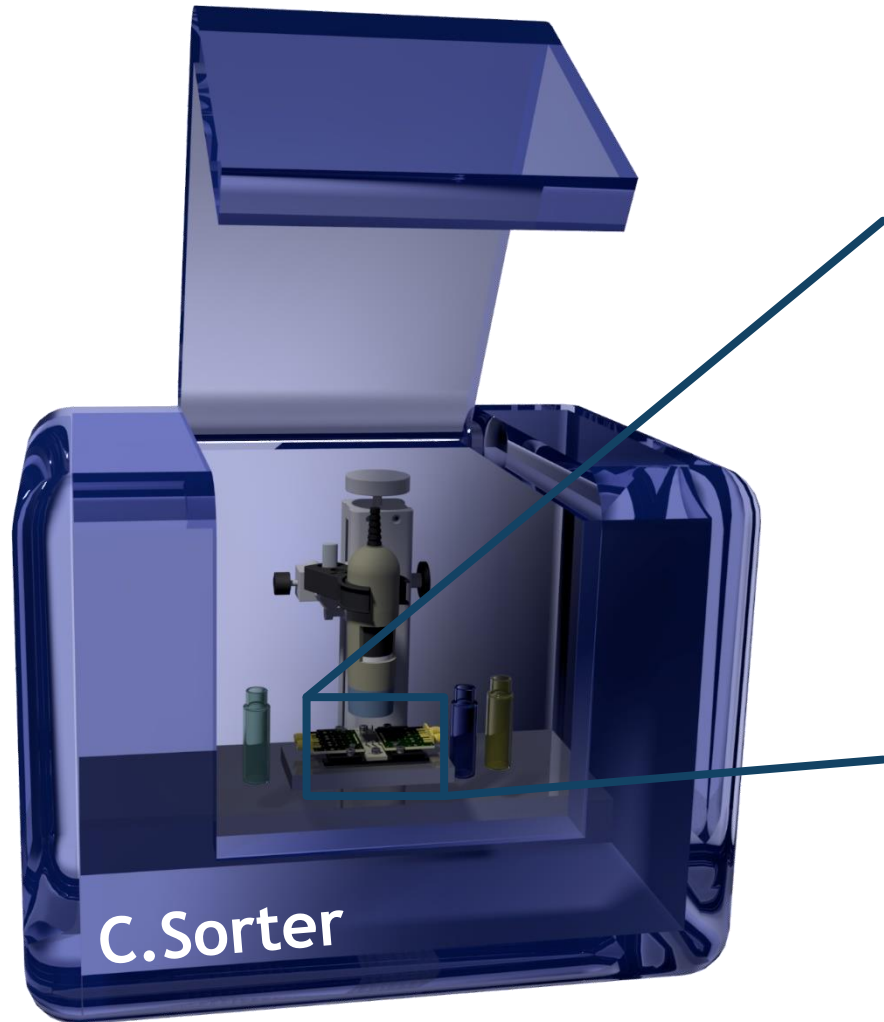
<3 h process time

180 € operating & material cost

# Our product: simple tabletop device with microfluidic chips for automated sorting



# Our product: simple tabletop device with microfluidic chips for automated sorting



cell - plasma/exosome separation from blood

# USP: faster & cheaper than conventional methods



simple handling  
automated process



gentle  
high yield



chip-based  
mass producible



time and cost  
efficient

	ultra-centrifugation	Zellekt
process time	25 h	<3 h
operation & material cost	500 €	180 €
investment	125 k€	50 k€

# Collaboration opportunities



## We offer



- **a ready-to-use lab demonstrator** for isolation of size fractions below  $1\mu\text{m}$ , such as vesicles, from complex suspensions.

## We want to

- **Connect with early adopters and reference customers** in exosome- or cell-based research and therapy/diagnostics development, who need to substitute existing isolation techniques.



- **Discuss current requirements and challenges** in single-cell handling and size-dependent exosome or cell isolation techniques.

**Interested? Get in touch: [contact@zellekt.com](mailto:contact@zellekt.com)**