

EXODUS

# EXODUS

AUTOMATIC EXOSOME  
ISOLATION SYSTEM

EXODUS

Product specifications may change without notice,  
based on the latest technical data and test results.

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## Automatic System for Exosomes Isolation



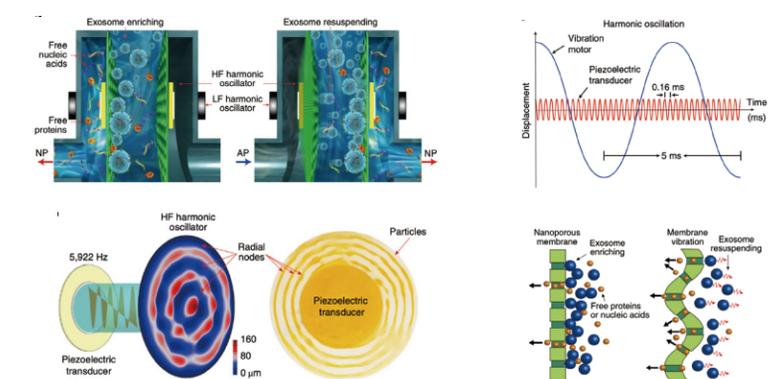
**EXODUS**

EXODUS is an automatic, label-free, and highly efficient exosome isolation system. With EXODUS, you can easily and quickly isolate high-quality, intact exosomes with excellent yield and purity from a variety of bio-fluids and sample volumes.

Experience the efficiency of EXODUS for yourself and take your research to the next level.

## Isolation Principles

EXODUS has been developed using a dual-membrane nanofiltration system that integrates periodic negative pressure oscillation (NPO) and double-coupled ultrasonic harmonic oscillations (HO).



Nature Methods, 2021, 18(2):212-218.

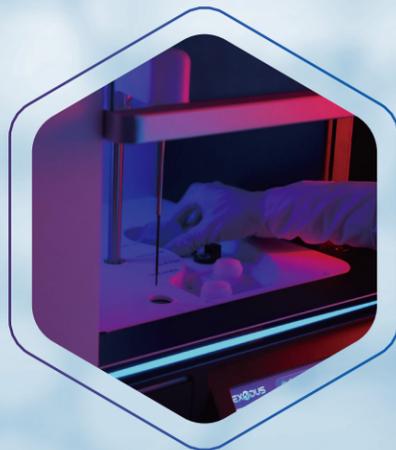
EXODUS can rapidly remove free nucleic acid and protein impurities from the sample, resulting in the efficient purification and enrichment of exosomes. The exosomes are precisely intercepted by nanoporous membrane, allowing for a highly targeted isolation process.

EXODUS has great potential to revolutionize exosome isolation and drive new discoveries in biomedical research and translation.

# Automatic

EXODUS is designed to automatically isolate high yield and purity exosomes from different biofluid sample volumes.

## Step 1

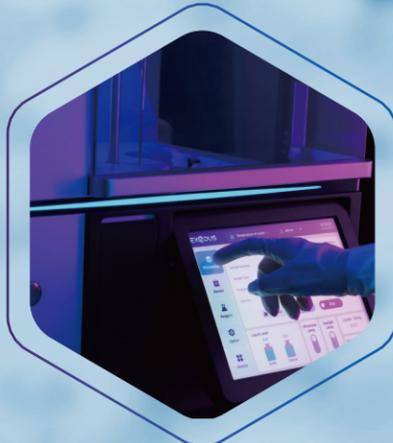


### Sample loading



## Step 2

### Automatic isolation

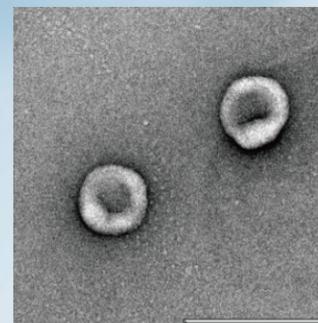


## Step 3

### Easy exosome collection



### TEM



EXODUS  
Key  
Features >>

KEY FEATURES



# EXODUS

## >> Automatic Exosome Isolation System



### Rapid isolation

Maximum isolation speed: 200 mL/h



### High purity and high yield

Purity ~ 99 %; Yield ~ 90 %



### Wide application

Sample types	Sample volumes	Sample types	Sample volumes
Urine	1 - 250 mL	Plasma	0.01 - 2 mL
Plant		Saliva	0.5 - 10 mL
Cell culture medium		Tears	0.005 - 1 mL
Cell-derived vesicle		Aqueous humor	0.005 - 1 mL
Bacterial culture medium		Cerebrospinal fluid	0.5 - 25 mL

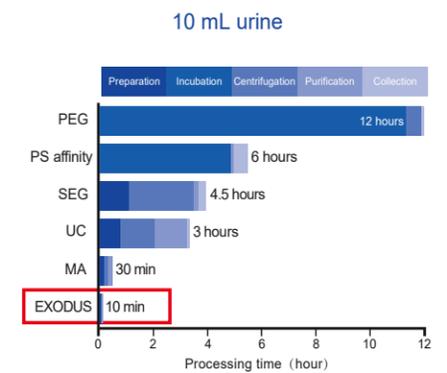


### Label-free

Only need PBS buffer



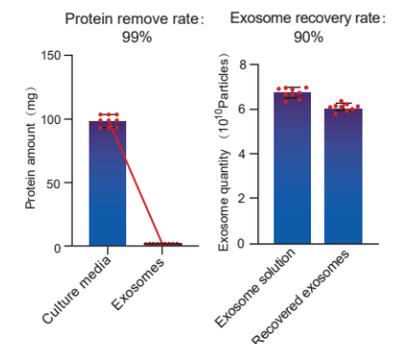
### Rapid isolation



Nature Methods, 2021, 18(2):212-218.



### High purity and high yield

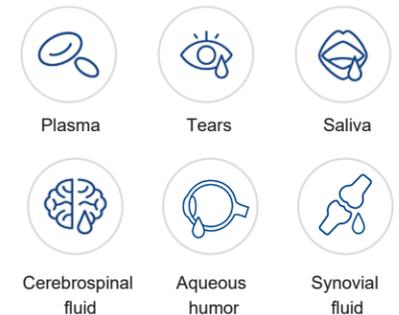


Nature Methods, 2021, 18(2):212-218.



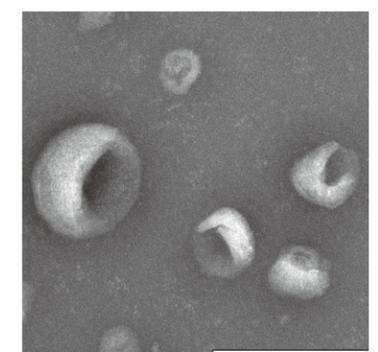
### Wide application

#### Other small amount sample types



### Label-free

TEM image of exosome



EXODUS  
Application >>

# APPLICATION

## Various Sample Types



Plasma



Urine



Saliva



Cerebrospinal  
fluid



Tears



Aqueous  
humor



Synovial  
fluid



Tissue



Cell culture  
medium



Bacterial  
culture medium



Cell-derived  
vesicle



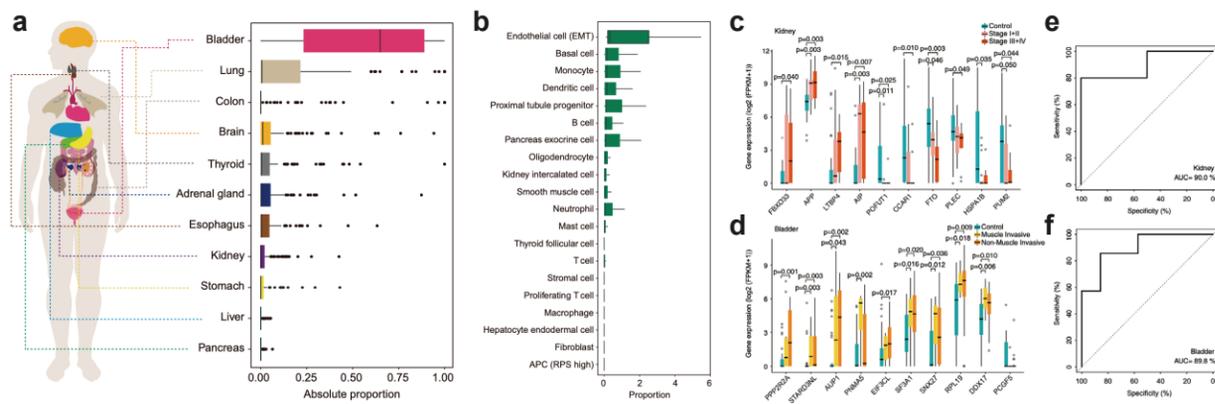
Plant

...

## Applications

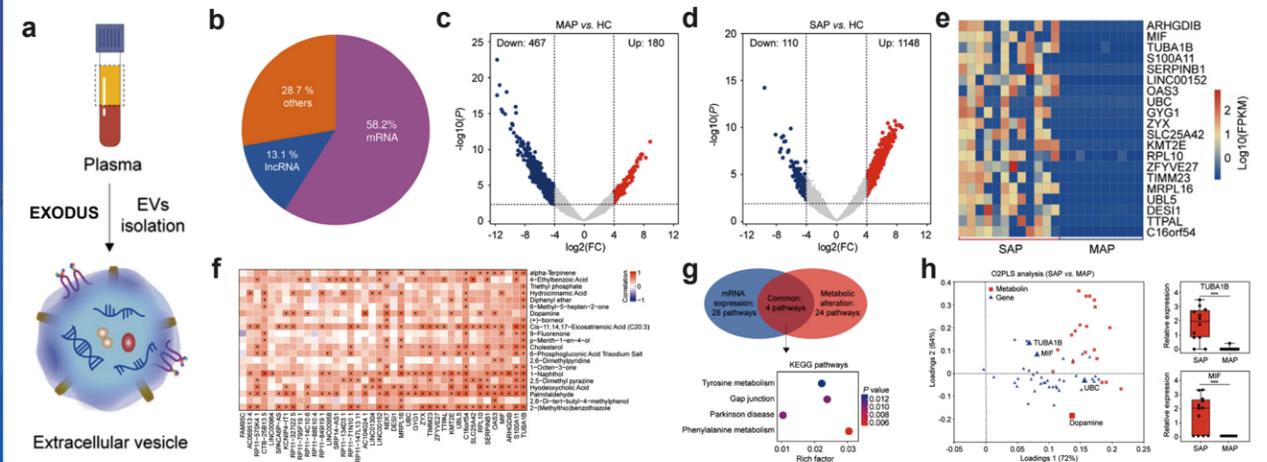
- Early diagnosis
- Drug delivery
- Exosome therapeutics
- Regenerative medicine

# 1 The genetic source tracking of urinary exosomes



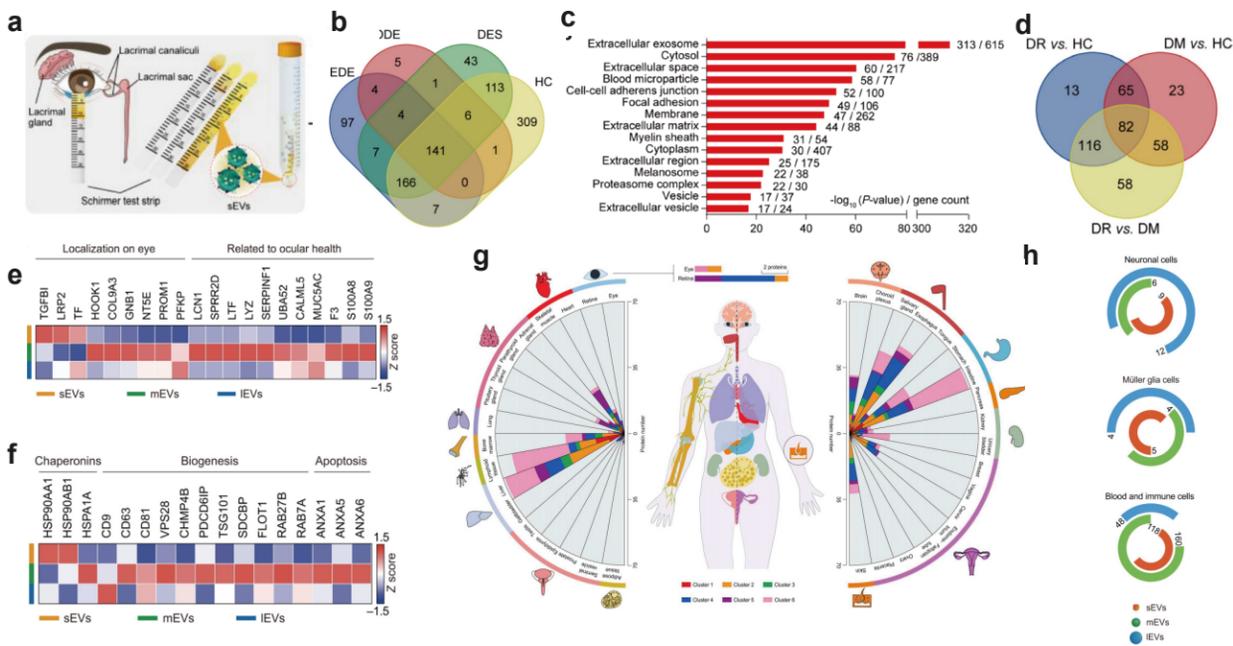
PNAS, 2021, 118(43): e2108876118.

# 3 Transcriptomic and metabolomic analysis of plasma exosomes



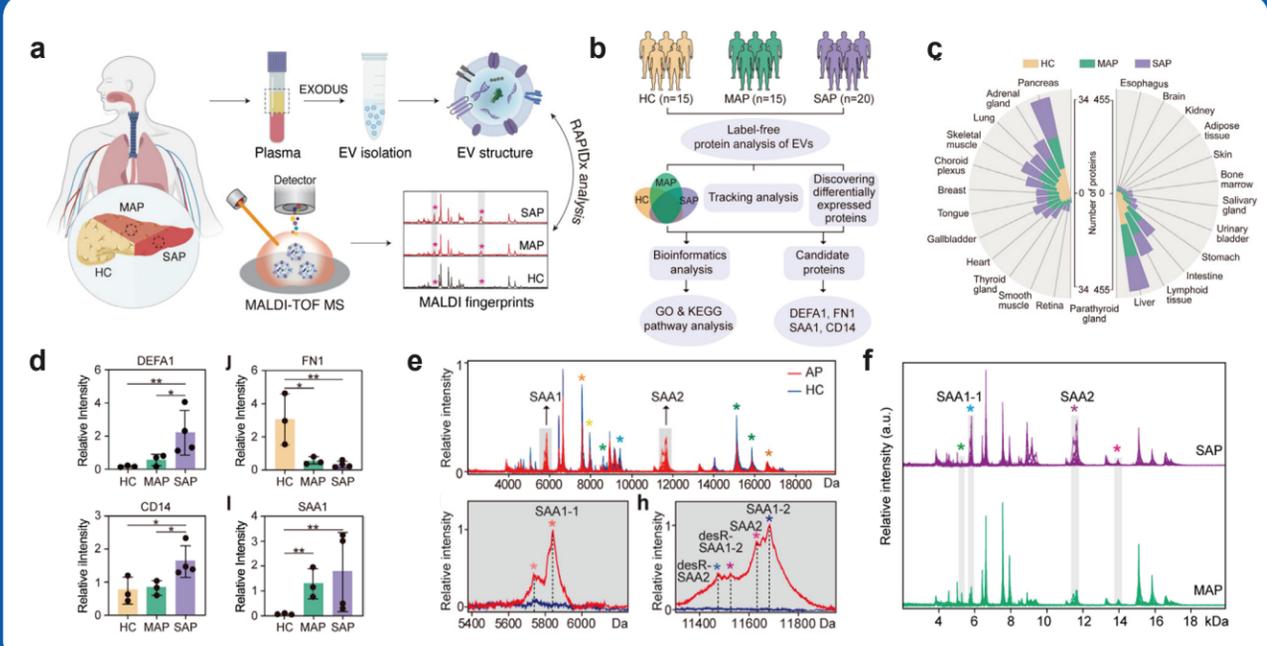
Clinical and Translational Medicine, 2022, 12(10): e1034.

# 2 Proteomic and transcriptomic analysis of EVs and their subset from tears



ACS Nano, 2022, 16(8): e11720.  
Sci Adv., 2023, 9(11): eadg1137.

# 4 Differential proteomic analysis and proteomic fingerprinting of plasma exosomes



ACS Nano 2023, DOI: 10.1021/acsnano.3c00922.

# EXODUS System Specification >>

# SPECIFICATION

Model	EXODUS H300	EXODUS H600
Isolation principles	Combination of the negative pressure oscillations (NPO) and double coupled harmonic oscillations (HO) on nanoporous membrane	
Sample types	Plasma, urine, saliva, cerebrospinal fluid, tears, aqueous humor, synovial fluid, tissue, cell culture medium, bacterial culture medium, cell-derived vesicle, plant, ect.	
Isolation device size	S/M	S/M/L
Temperature of sample reservoir	2 - 8 °C	
Sample volumes	10 µL - 50 mL	10 µL - 250 mL
Processing speed	Max speed 50 mL/h	Max speed 200 mL/h
Isolation data saving	2000	20000
Exosome recovery volumes	100 - 400 µL	100 - 1000 µL
Ultraviolet sterilization	Internal UV lamp, turn off automatically after 30 min	
Display	10.4 inch touch screen, real time display with sample type, time, processing information ect. Supporting the operation without computer	
Dimension	535 x 510 x 475 mm (H x W x D)	
Net weight	40 kg (88 lbs)	
System interfaces	4 USB ports, 1 network port, 1 serial port	