

EXODUS

EXODUS

AUTOMATIC EXOSOME
ISOLATION SYSTEM





Automatic System for Exosomes Isolation



EXODUS

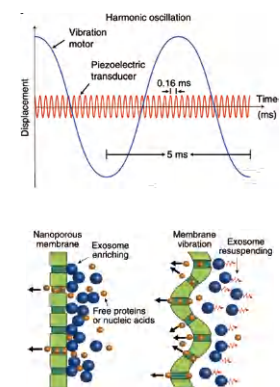
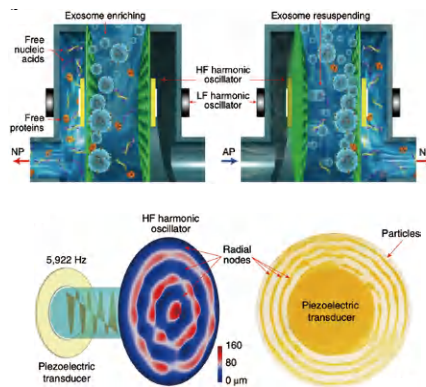
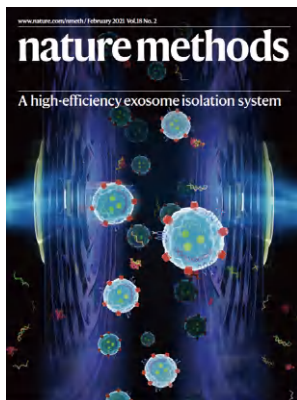
EXODUS is an automatic, label-free, and highly efficient exosome isolation system. With EXODUS, you can easily and quickly isolate high-quality, intact exosomes with excellent yield and purity from a variety of bio-fluids and sample volumes.

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.

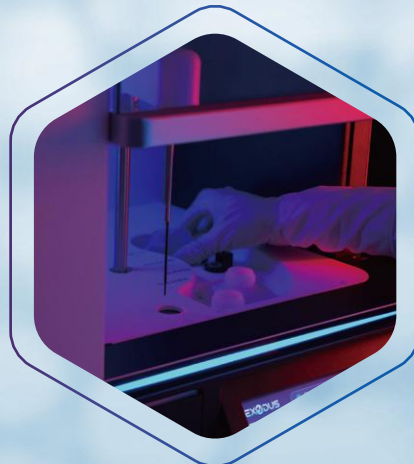
EXODUS can rapidly remove free nucleic acid and protein impurities from the sample, resulting in the efficient purification and enrichment of exosomes. The exosomes are precisely intercepted by nanoporous membrane, allowing for a highly targeted isolation process.

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



Plasma



Urine



Saliva



Tears

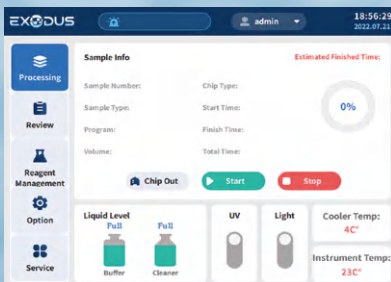


Aqueous
humor

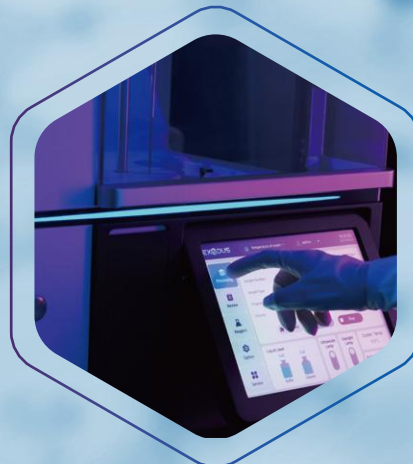


Synovial
fluid

Automatic isolation



Step 2

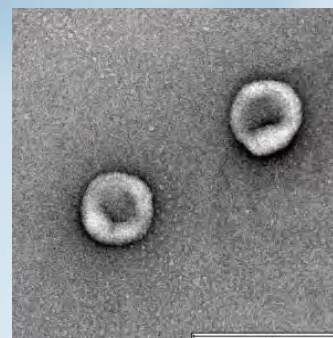



Step 3



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

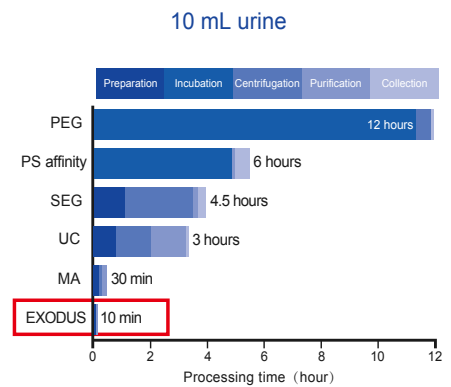


Label-free

Only need PBS buffer



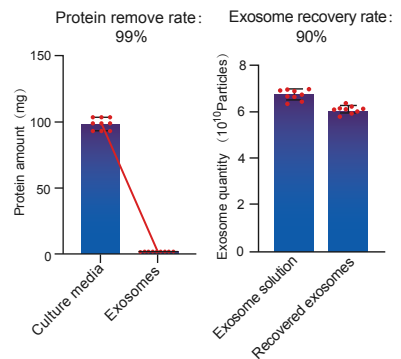
Rapid isolation



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



Plasma



Tears



Saliva



Cerebrospinal fluid



Aqueous humor

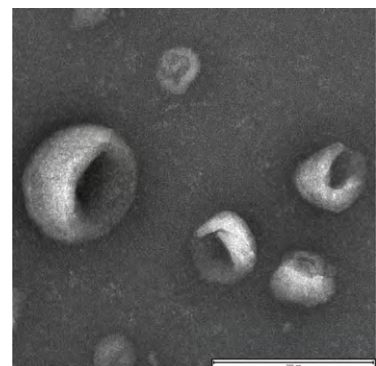


Synovial fluid



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



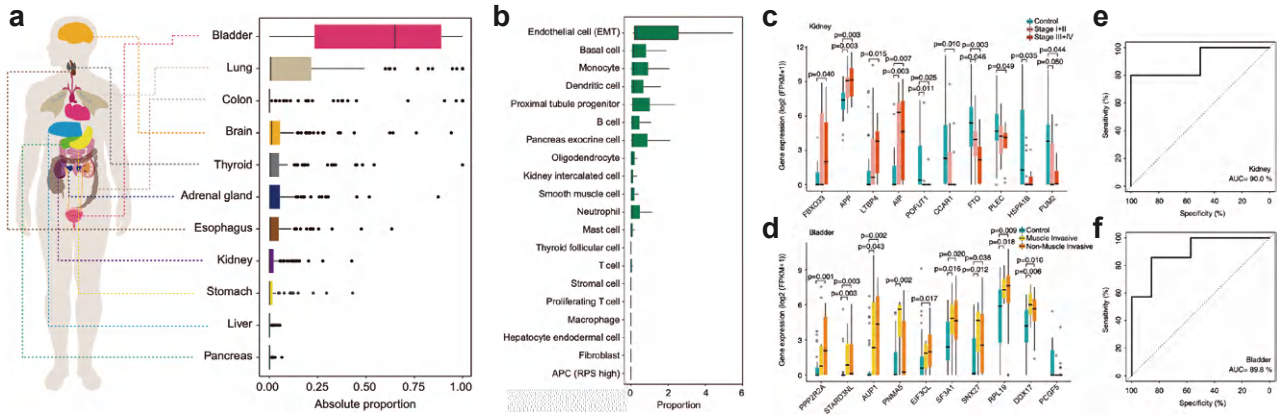
Plant

...

Applications

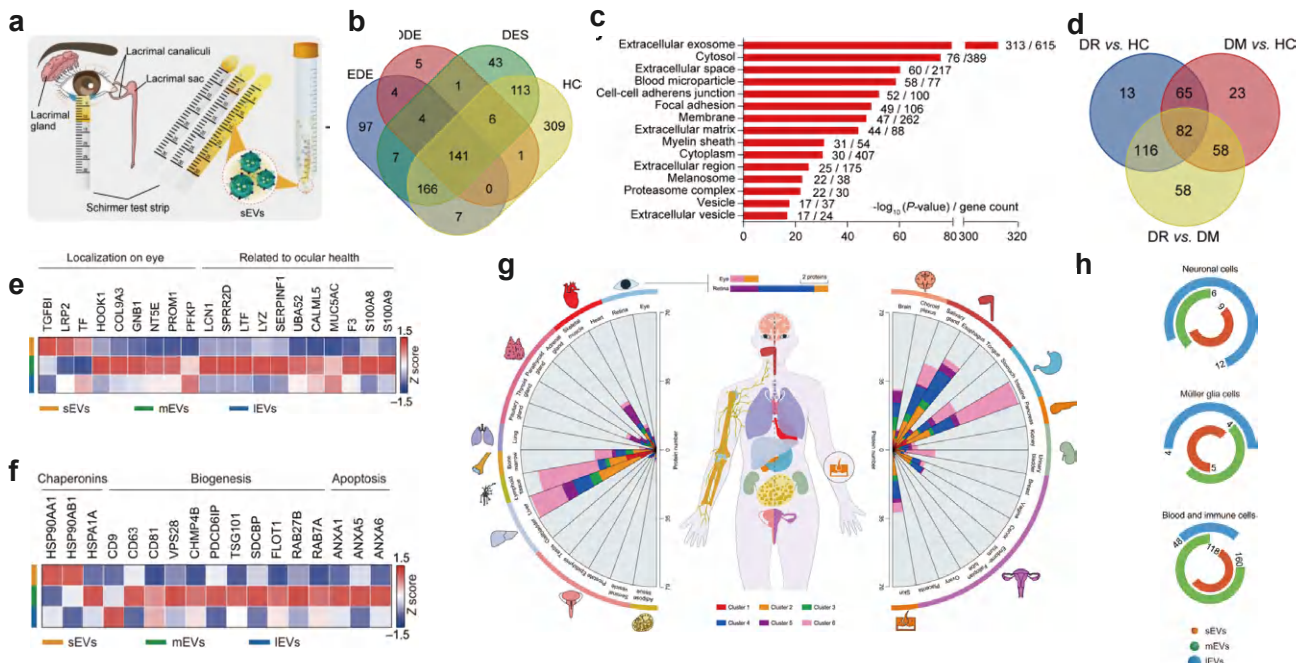
- Early diagnosis
- Drug delivery
- Exosome therapeutics
- Regenerative medicine

1 The genetic source tracking of urinary exosomes



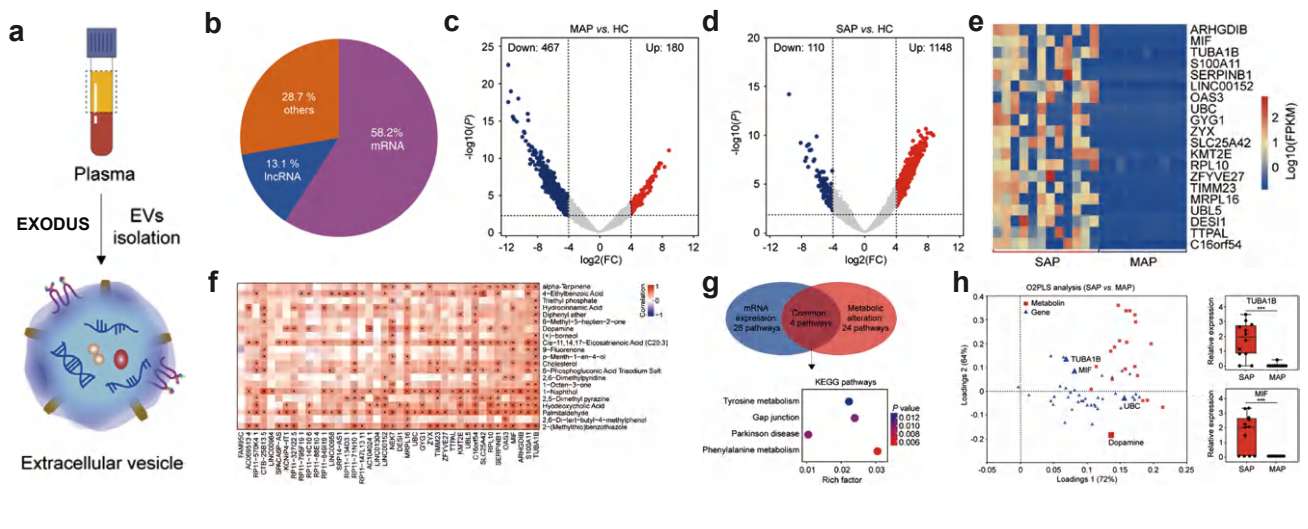
PNAS, 2021, 118(43): e2108876118.

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



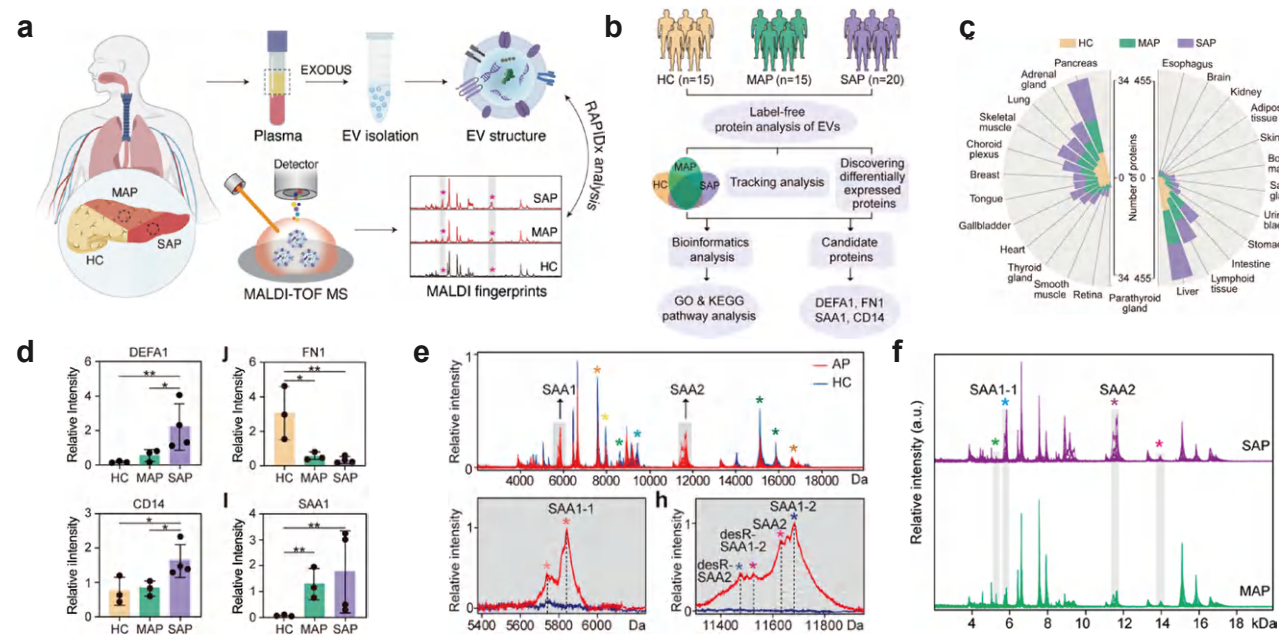
ACS Nano, 2022, 16(8): e11720.
Sci Adv., 2023, 9(11): eadg1137.

3 Transcriptomic and metabolomic analysis of plasma exosomes



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

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	

The background features a stylized biological illustration of a cell. The cell is depicted with a nucleus containing a DNA double helix, various organelles, and a cell membrane with receptors. The illustration is rendered in a light blue color against a darker blue background. The word "EXODUS" is centered over the cell.

EXODUS

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

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