

Navigating the World of Extracellular Vesicles

Article collection.

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Extracellular vesicles (EVs), including exosomes, are small, lipid bilayer-delimited particles. They carry unique surface markers, and cargo molecules such as proteins and nucleic acids that reflect the origin and state of the cells that secreted them. EVs also play a critical role in intercellular communication, including in cancer.



Ultracentrifuge is a gold standard for EV isolation.

A quick and simple EV isolation process is vital for advancing research in diagnostic tools and therapies. Using a user-friendly ultracentrifuge can significantly reduce sample preparation time while ensuring reliable working conditions. With visual samples, this article collection is designed to clean up scale and use a laminar hood for best results. In this article collection, we have highlighted papers that examine the potential of novel small EV production modulators, EV isolation from plants and purification, engineering exosomes for tumor immunotherapy, and EV bioprocessing.

Here's some of what you'll find in the article collection:



Enhanced bioprocess control to advance the manufacture of mesenchymal stromal cell-derived extracellular vesicles in fed-batch bioreactors.

Costa et al. 2023



Effective methods for isolation and purification of extracellular vesicles from plants.

Huang et al. 2021



The identification of novel small extracellular vesicle (sEV) production modulators using luciferase-based sEV quantification method.

Yamamoto et al. (2022)



Want to learn more?

Download the full article collection to discover more about the current and future role of EVs in cancer diagnosis and treatment.



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