

[ABSTRACT]

A method for providing cancer diagnosis information using artificial intelligence-based liquid biopsy of exosome according to an embodiment of the present disclosure includes measuring a cultured cell exosome Surface Enhanced Raman Spectroscopy (SERS) signal, training a deep learning model through the cultured cell exosome SERS signal, measuring a blood exosome SERS signal, analyzing the blood exosome SERS signal through the deep learning model trained with the cultured cell exosome SERS signal, and analyzing a similarity between blood exosome data and cultured cell exosome data analyzed through the deep learning model.