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(54) Title: IMPROVED EXTRACELLULAR VESICLES FROM NON-MAMMALIAN CELLS, METHODS OF ENHANCED PRODUCTION AND USES THEREOF

(57) Abstract: The present invention generally relates to a method for enhancing the production of extracellular vesicles (EVs) from non-mammalian cells, the method comprising: (a) subjecting the cells to an acoustic and/or electromagnetic stimulation; and (b) optionally, collecting the EVs produced from the cells after the stimulation. The present invention relates further to a method of fermenting non-mammalian cells. Moreover, the present invention relates to EVs obtainable by the methods of the invention, to the use of the EVs of the invention in the manufacture of a beverage, a non-beverage food, a dietary supplement, a drug and/or a cosmetic or personal care product, as well as to the EVs of invention for use as a medicament and in the prevention and/or treatment of a pathological condition selected from the group consisting of a cancerous disease, a cardiovascular disease, a neurodegenerative disease, a metabolic disease, an inflammatory disease, an immune disease and an infectious disease.

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