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A NEW LABEL FREE APPROACH FOR CSC DETECTION ON GLIOBLASTOMA MODEL *IN VITRO*

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Cancer stem cells (CSCs) were a critical point in cancer making them a central target of the different area of interest for new diagnosis, therapeutic and theranostic approaches. The postulate of poor number of CSCs in cell culture and the lack of real specific markers to well recognize these cells conduct to establish new methods to isolate and characterize them. Invent label free technique described in this study is able to provide a great number of CSCs and finally deserve a CSCs signature and neutralize them. This process is based on combine devices forming. Several culture conditions allows an enrichment in CSCs. This enrichment was enhanced using SdFFF cell sorting method. This method was coupled to a biosensor to measure a specific electromagnetic (EM) signatures corresponding to each condition obtained. A unique EM signature was also obtained for CSCs opening the way to study these critical cells in glioblastoma and more largely in cancer.

BIOGRAPHY

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