

عنوان مقاله:

Deregulation of microRNA in metastatic breast cancer as biomarkers and therapeutic targets

محل انتشار:

دهمین کنگره بین المللی سرطان پستان (سال: 1393)

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خلاصه مقاله:

Metastasis is the major reason for breast cancer-related death. A microRNA is a small non-coding RNA molecule, which known to be aberrantly expressed in cancer, with some functioning as tumor suppressors and others acting as oncogenes. they are potential biomarkers for disease diagnosis. According to published paper that compared the expression profile of miRNAs in breast cancer tissues and peripheral blood versus in control sample, proved that some miRNAs were up-regulated in breast cancer as oncomir but data have proven that some of these up-regulated miRNAs (miR-10b, miR-373 and miR-520c), exert their effects only in the metastatic cascade by influencing cancer cell adherence, migration, invasion. So according to this up-regulation and the role of these miRNA in metastatic processes, we can use mir-10b, mir -373, mir -520c as biomarkers. Emerging evidence indicates that the deregulation of miRs might play a crucial role in stimulation of cancer cell migration by regulation of gene expression, and identifies them as obvious novel candidate diagnostic and prognostic biomarkers, so represent a new class of therapeutics targets based on silencing of miRNA with the antimiRNA oligonucleotides to hinder metastasis. Subsequently we can decrease the progression of metastasis and cancer mortality by using anti-mir-10b, anti-mir-373, and anti-mir-520c.

کلمات کلیدی:

breast cancer, metastasis, miRNA, Biomarker

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