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Establishment and verification of miRNAs expression molecules for breast cancer and its distant metastasis

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Breast cancer is one of malignant tumors in women. Distant metastasis is the main death cause for breast cancer patients. The early detection of laboratory is the key for prevention and therapy of breast cancer. MicroRNAs are a large class of single-strand endogenous non-coding small RNA. It was reported that cells may release tumor endogenous microRNAs into peripheral blood cycle and become circulating microRNAs in tumor genesis and development. We have analyzed serum microRNAs of breast cancer and breast cancer metastasis patients by new screening strategy and biostatistics method. We have got hsa-miR-6090 and hsa-miR-451a as candidate molecules of breast cancer and breast cancer metastasis. Therefore, we speculate that hsa-miR-6090, hsa-miR-451a play an important role in the development and metastasis of breast cancer, and further study to verify their biological function will be go on.

Biography

Yanhong Gao has completed her PhD from Chinese Academy of Medical Sciences in 2005. She is working as an Associate Chief Physician and Associate Professor at Department of Clinical Biochemistry of Chinese PLA General Hospital since 2005. She is interested in finding new tumor biomarkers for diagnoses and prognostics from blood by advanced technology methods (including biometrics & biostatistics). She has published more than 25 papers in journals.

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