Commentary on “Association of mir12475p Expression with Clinicopathological Parameters and Prognosis in Breast Cancer”

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Commentary

I am glad to write a few comments on our recently published article “Association of mir-12475p expression with clinicopathological parameters and prognosis in breast cancer” [1]. I hope our study will contribute to the research of this field and clinical application for breast cancer.

Breast cancer is the most common form of cancer and the second most common cause of cancer death in women [2]. Although great advances have been made in clinical treatments, satisfactory outcomes have not always been achieved [3]. Thus prevention and treatment of breast cancer still remains a concern and challenge for oncologists throughout the world [4,5]. Early detection is one of the most important methods which might improve the survival of breast cancer patients, so it remains significant to find new biomarkers for diagnosis and prognosis estimation of breast cancer. Cancer initiation and progression can involve microRNAs (miRNA), which are small noncoding RNAs that can regulate gene expression. More and more studies showed that microRNAs could be promising biomarkers for diagnosis, prediction of therapy response and prognosis of breast cancer [6-8]. As I know, it was the first paper in which the relationship of mir-12475p and breast cancer has been investigated. According to our study, mir-12475p could be a novel tumor suppressor and its lower expression was associated with malignant biological behavior and poor prognosis of breast cancer. In latest study, mir-12475p was down-regulated in breast cancer [9] and this is in accordance with our conclusion. Although it was a pity that we could not complete the functional assay in this study, we found a variety of pathways which mir-12475p might be involved in section of discussion [10-12]. I want to say that mir-12475p may not be a common suppressor as other one. Because in our following study, we found its specific target gene CPEB4, and CPEB4 is a key gene which has been shown to be involved in promoting tumor growth, vascularization and invasion in variety of cancers [13]. The emerging evidence showed that CPEB4 functioned as a key role in controlling cell growth and malignancy of cancer cells [14]. In the aspect of clinical application, microRNAs have been shown to be used as potential indicators for classification, diagnosis, and prognosis of human malignancies [15]. Furthermore, it has been reported that microRNA could modulate multidrug resistance in human cancer by controlling its target genes [16]. So more and more oncologists turn to throw themselves into the research on the association of microRNAs and clinical therapy of human cancers. In the past few years, many studies have indicated the possible clinical application of microRNAs [17]. Thus, we firmly believe that the prospect on microRNAs in cancer therapy will turn into reality in the near future.

Few as current studies on association of mir-12475p and breast cancer were, it has shown that mir-12475p might be a potential indicator of diagnosis and prognosis prediction even provide choice for treatment of breast cancer. I hope our contribution stimulates our institutions to increase the basic, translational and clinical research in this field. I also hope it attracts the interest of researchers from other countries who are willing to perform international cooperation.

References

