Circular BANP expression profile and potential function in human colorectal cancer

Feng Yan
Nanjing Medical University, China

Circular RNAs (circRNAs) are recently identified as widespread and diverse endogenous noncoding RNAs that may harbor vital functions in human and animals. However, the role of circRNAs in the process of tumorigenesis and development of colorectal cancer (CRC) remains vague. Here, we characterized the circRNA expression profile from three paired CRC cancerous and adjacent normal tissues by human circRNA array and identified 136 significantly overexpressed circRNAs (>2-fold changes). We further validated one circRNA generated from Exon 5-11 of BANP gene, termed circ-BANP. In addition, RT-PCR result showed that circ-BANP was overexpressed in 35 CRC cancerous tissues. Knockdown of circ-BANP with siRNA significantly attenuate the proliferation of CRC cells. In summary, our findings demonstrated that dysregulated circ-BANP appears to have an important role in CRC cells and could serve as a prognostic and therapeutic marker for CRC.

Speaker Biography

Feng Yan is the Vice Director of Department of Clinical Laboratory in Nanjing Medical University Affiliated Cancer Hospital and Jiangsu Cancer Hospital. The research works focus on the Bioanalytical Chemistry in laboratory medical diagnostics, particularly in detection of tumor markers and tumor cells. She has published 42 papers in Scientific journals. She was the Outstanding Medical Talents, Excellent Medical Talent and Leading Medical Talent of Jiangsu Province.

e: yanfeng1895@163.com

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