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STX17-AS1, a long noncoding RNA, acts as novel oncogene in regulating cancer cell growth and invasion in colorectal cancer

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lncRNAs are noncoding transcripts that are >200 nucleotides in length, have recently emerged as an important molecule in several cellular processes, including development, cell growth, apoptosis and cancer metastasis. In this study, we reported that the expression levels of STX17-AS1 were significant increasing in colorectal carcinoma (CRC) compared to corresponding adjacent normal mucosa. Kaplan-Meier analysis revealed that high expression levels of STX17-AS1 were significantly correlated with poor survival of CRC. *In vitro* study showed that knockdown of STX17-AS1 expression could significantly suppress colon cancer invasion ability and cell growth via inducing cell cycle arrest at G1 phase. These results implied that STX17-AS1 may play an oncogenic role on colorectal cancer cell growth and motility. Our findings revealed a new insight for lncRNAs regulation and provided an application for colon cancer therapy.

Biography

Kuo-Wang Tsai has completed his PhD from Graduate Institute of Life Sciences, National Defense Medical Center and Postdoctoral studies from Institute of Biomedical Sciences, Academic Sinica, Taiwan, ROC. Currently, he is a Research Fellow in Department of Medical Education and Research, Kaohsiung Veterans General Hospital. He has published more than 40 papers in reputed journals and has been serving as an Editorial Board Member of repute.

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