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## Association between LINC00657 and miR-106a serum expression levels and susceptibility to colorectal cancer, adenomatous polyposis and ulcerative colitis in Egyptian population

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Colorectal cancer (CRC) represented the second cause of mortality among cancer patients. Long noncoding RNAs and microRNAs (miRNAs) serve as non-invasive biomarkers for CRC surveillance and introduce new therapeutic approaches. LINC00657 and miR-106a expression levels play a pivotal role in CRC. This study included 190 Egyptian subjects and the expression levels of LINC00657 and miR-106a in serum were measured by using quantitative real-time polymerase chain reaction. We found that upregulation of LINC00657 and downregulation of miR-106a are significantly associated with the development of CRC. Also, a positive correlation was detected between their serum levels. In addition, serum LINC00657 can distinguish adenomatous polyposis (AP) patients and/or ulcerative colitis (UC) patients from controls. Also the miRNA-106a expression level discriminates AP but not UC from healthy individuals. Our study cited new diagnostic biomarkers for CRC, AP and UC among Egyptians in addition to be non-invasive screening tools for CRC in both healthy subjects and those having precancerous lesions.

### Biography

Essam Soliman has completed his education from Fayoum University, Egypt. He has published 8 papers in reputed journals. Currently he is working as an Associate Director of GIT at Foyoum University. His research interest mainly lies in the fields of Topical Medicine and Liver.

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