ABSTRACT ID: EG1390077

TÍTULO: Differentially expressed gene MALAT1 and epigenetic marks analyses in gastric cancer

OBJECTIVO: Epigenetics alterations can influence gene expression and have been implied as an important mechanism contributing to carcinogenesis and tumor progression. Disruption and abnormal patterns are frequently described in several types of tumors, including gastric cancer (GC).

MATERIAL E MÉTODOS: Gene expression profiling was carried out in two GC cell lines treated with 5-AZA. MALAT1 was selected among 158 differentially expressed genes to assessment of mRNA by qRT-PCR in gastric tissue obtained from patients with GC. DNA and histone methylation were also analyzed by bisulfite sequencing and by chromatin immunoprecipitation qPCR analysis, respectively, in the same set of samples.

RESULTADOS: MALAT1 was up-regulated 3.1-fold in the cell lines after demethylation treatment and qRT-PCR analysis showed lower levels of mRNA in GC tissues compared to adjacent noncancerous tissues. DNA methylation sequencing didn’t show any statistical variations. Three regions were selected to H3K9me3 analysis and no significantly H3K9me3 loss was observed comparing paired GC and adjacent noncancerous tissues. Likewise, no correlation between changes in levels of mRNAs and H3K9me3 levels at any specific gene region was observed.

DISCUSSÃO: MALAT1 mRNA expression loss was confirmed in GC samples; however none of the analyzed epigenetic ma-
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The combined endoscopic approaches is effective, despite complications being associated with morbidity and mortality. There was a progressive increase of vitB12 levels in patients who received oral supplemen

tation, however, it is painful and expensive. Oral vitB12 is effective and safe in these patients and 24 months, although there were normal serum levels of vitB12 in 25/26 patients at inclusion time, 17/25 patients were under intramuscular supplementation and 8 had not yet started supplementation. The patient with low vitB12 levels due to non-adherence to treatment, however, it is painful and expensive. Oral vitB12 (dosage: 1mg/day) and were evaluated for response (pR), resectability, perioperative morbidity/mortality and survival rates. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit. The following data was analysed: tumor location and histology, cTNM and ypTNM staging, pathological unit.

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