

Long non-coding RNA in meningioma

The deepgoing role of [Long non-coding RNA](#) (lncRNAs) on [meningioma](#) is still unclear.

Xing et al., investigated the roles of lncRNA [LINC00460](#) in meningioma tissue and uncover its molecular mechanism. Results revealed that LINC00460 expression level was significantly up-regulated in meningioma tissues and malignant meningioma cell lines (IOMM-Lee, CH157-MN). Mechanically, loss-of-function assays showed that LINC00460 knockdown significantly suppressed the proliferation ability, increased the apoptosis and decreased the proteins (MMP-2, MMP-9, ZEB1) expression. Bioinformatics tools predicted that [miR 539](#) both targeted with the 3'-UTR of LINC00460 and MMP-9 mRNA, which was confirmed by luciferase reporter assay and western blot analysis.

The study reveals that LINC00460 promotes MMP-9 expression through targeting miR-539, acting as an oncogenic RNA in the meningioma malignancy and accelerating the proliferation and metastasis of meningioma ¹⁾.

¹⁾

Xing H, Wang S, Li Q, Ma Y, Sun P. Long non-coding RNA LINC00460 targets miR-539/MMP-9 to promote meningioma progression and metastasis. Biomed Pharmacother. 2018 Jun 12;105:677-682. doi: 10.1016/j.biopha.2018.06.005. [Epub ahead of print] PubMed PMID: 29906745.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=long_non-coding_rna_in_meningioma

Last update: **2024/06/07 02:53**

