Jin et al., found that Long noncoding RNA CASC11 was significantly up-regulated in the glioma specimens and cells, and the ectopic overexpression indicated the poor prognosis of glioma patients. CASC11 expression could be activated by the SP1 transcription factor. In vivo and vitro, the knockdown of CASC11 impaired the proliferation, migration and tumor growth of glioma cells. In mechanical experiments, the miR 498 was found to target the 3'-UTR of lncRNA CASC11 and FOXK1 mRNA. Taken together, the data suggest the regulation of SP1/CASC11/miR-498/FOXK1 in the gliomagenesis, which might provide a potential therapeutic strategy for glioma [1].

1)
Jin J, Zhang S, Hu Y, Zhang Y, Guo C, Feng F. SP1 induced lncRNA CASC11 accelerates the glioma tumorigenesis through targeting FOXK1 via sponging miR-498. Biomed Pharmacother. 2019 May 20;116:108968. doi: 10.1016/j.biopha.2019.108968. [Epub ahead of print] PubMed PMID: 31121483.

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