## miR 199

During the last decade, experimental evidence has demonstrated an important role of hypoxia, which leads to neuronal cell death and angiogenesis, in the mechanisms of seizure precipitation and recurrence. MicroRNA-199 targets hypoxia-inducible factor-1alpha (HIF-1 $\alpha$ ), which has recently been implicated in the pathophysiology of the hypoxic state and brain injury. However, little is known about the roles of MicroRNA-199 and HIF-1 $\alpha$  in the human epileptogenic process.

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Data suggest that the abnormal expression of miR-199 and HIF-1 $\alpha$  in epileptic brain tissue may be involved in the pathophysiology of human epilepsy and that the expression of HIF-1 $\alpha$  may be regulated by miR-199. These findings may provide new insights into the treatment of epilepsy <sup>1)</sup>.

1)

Jiang G, Zhou R, He X, Shi Z, Huang M, Yu J, Wang X. Expression levels of microRNA-199 and hypoxiainducible factor-1 alpha in brain tissue of patients with intractable epilepsy. Int J Neurosci. 2016 Apr;126(4):326-34. doi: 10.3109/00207454.2014.994209. Epub 2015 Sep 30. PubMed PMID: 25539181.

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