mir 137

Data suggest that WIF1 may be potential biomarker for the aggressiveness of NFPAs. mir 137 plays an important role in the Wnt signaling pathway by affecting promoter methylation of WIF1 [1].

miR 137 and miR 195 act as vasculogenic suppressors in AVMs by altering phenotypic properties of AVMSMCs, and that the absence of miR-137 and miR-195 expression leads to abnormal vasculogenesis [2].

1)
Song W, Qian L, Jing G, Jie F, Xiaosong S, Chunhui L, Yangfang L, Guilin L, Gao H, Yazhuo Z. Aberrant expression of the sFRP and WIF1 genes in invasive non-functioning pituitary adenomas. Mol Cell Endocrinol. 2018 Oct 15;474:168-175. doi: 10.1016/j.mce.2018.03.005. Epub 2018 Mar 16. PubMed PMID: 29555596.
2)
Huang J, Song J, Qu M, Wang Y, An Q, Song Y, Yan W, Wang B, Wang X, Zhang S, Chen X, Zhao B, Liu P, Xu T, Zhang Z, Greenberg DA, Wang Y, Gao P, Zhu W, Yang GY. MicroRNA-137 and -195* inhibit vasculogenesis in brain arteriovenous malformations. Ann Neurol. 2017 Aug 12. doi: 10.1002/ana.25015. [Epub ahead of print] PubMed PMID: 28802071.