# **EPIGENOMICS STEMNESS PREDICTION MODEL STRATIFIES IDHWT GLIOMAS BASED ON OVERALL SURVIVAL**

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## Background

phenotypes may underline glioma IDHwt, a poor prognosis cancer Stem cell therapeutic resistance due to the stemness properties as self-renewal and subtype, proliferative potential. Although glioma molecular alterations have been described, there are no prognosis distinctions noticed regarding IDHwt

signature.

#### Results





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### Objectives

We propose to define a novel metric to measure stemness in tumors using a non-tumor induced Neural Stem Cell (iNSC) DNA methylation

### Conclusions

Our model stratified gliomas IDHwt by the stemness indices with significant differences in survival in both cohorts. The higher the stemness index the poorer the overall survival after adjusting for age and molecular subtype. Our prediction results indicated an enrichment of stemness features in glioma, which is associated with prognosis.

## Next steps

- Stemness prediction on others CNS tumors;
- Adjustment in NSC model trough similiarities within **GSC** signatures
- Enrichment pathway analysis from final glioma stemness signature
- Improve undertanding in stemness and agressiveness correlation in gliomas





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