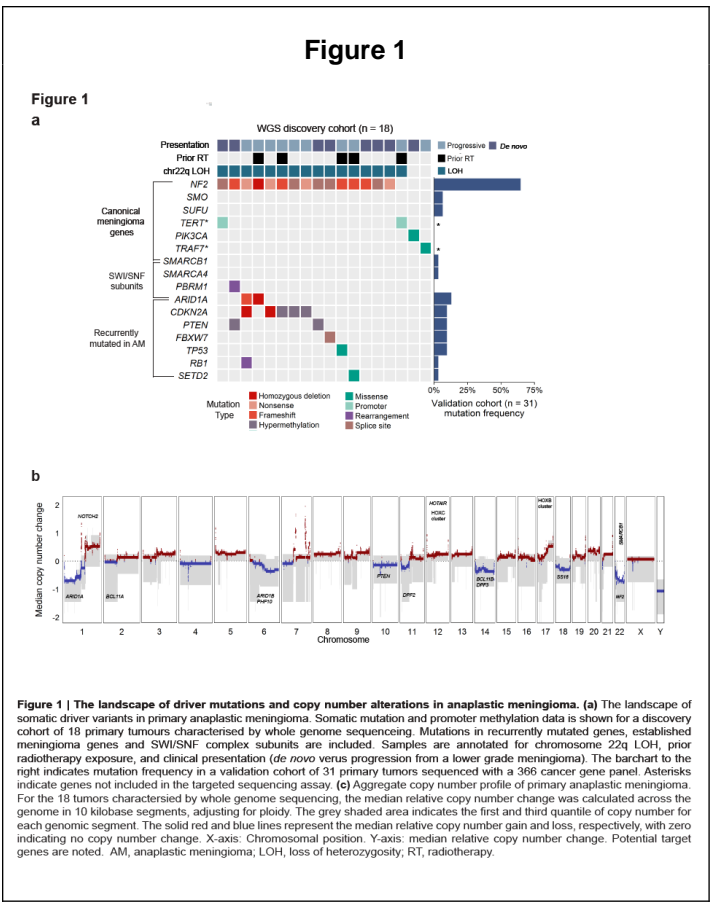


# Introduction

Anaplastic meningioma is a rare and aggressive brain tumor characterised by intractable recurrences and dismal outcomes.

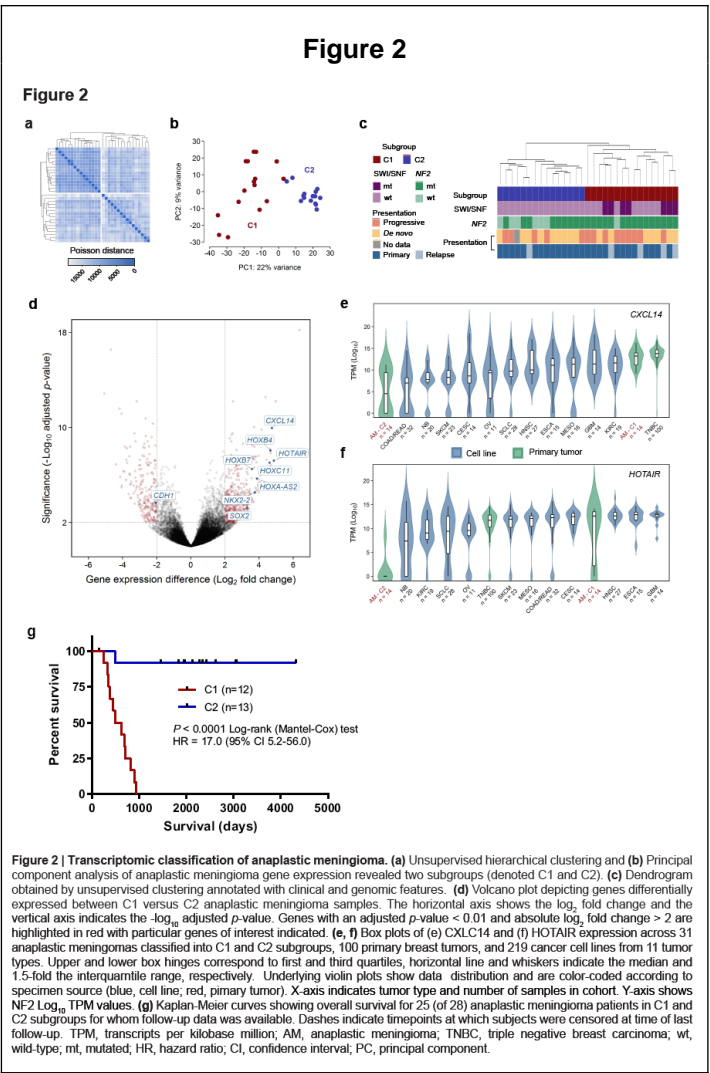
## Methods

Here, we present an integrated analysis of the whole genome, transcriptome and methylation profiles of primary and recurrent cohort of 50 anaplastic meningiomas.

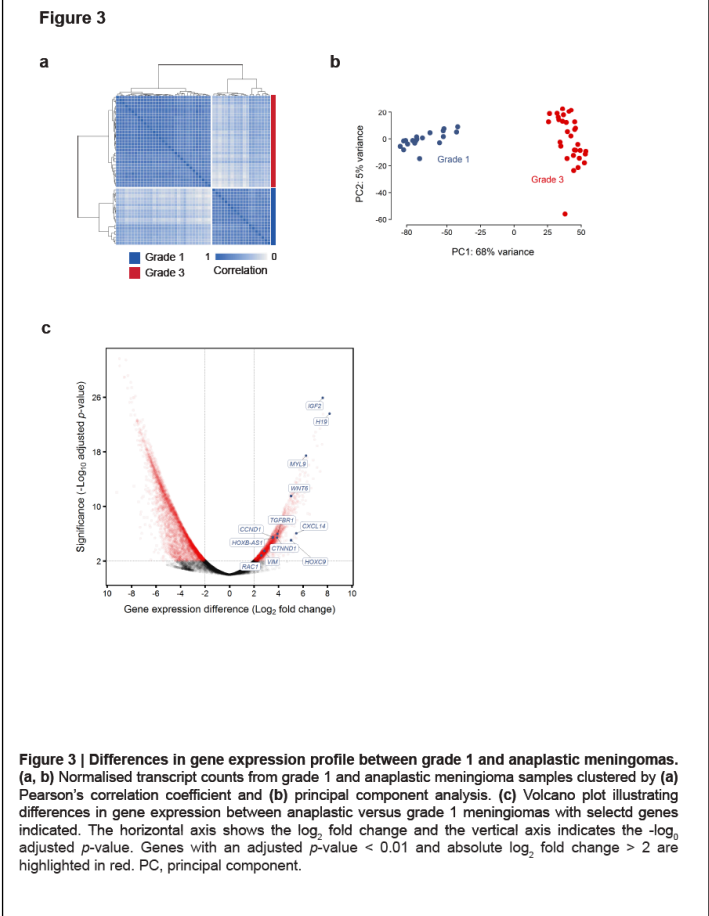


## Results

A key finding was the delineation of two distinct molecular subgroups that were associated with diametrically opposed survival outcomes. Relative to lower grade meningiomas, anaplastic tumors harbored frequent driver mutations in SWI/SNF complex genes, which were confined to the poor prognosis subgroup.



### Figure 3



## Conclusions

Our analyses of the largest cohort of anaplastic meningiomas to date discern two biologically distinct variants of anaplastic meningioma with potential prognostic and therapeutic significance.

## Learning Objectives

Histologically diagnosed anapaestic meningiomas comprise of two biologically distinct gripes with very different prognosis.

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