## GWAS data input

## May 14, 2020

```
In [99]: import numpy as np
        import pandas as pd
  lendo arquivo do pgc
In [100]: GWAS = pd.read_csv ('/media/thiago/um_tera/arquivos/twins/scz.full.txt', delimiter="
  conforme modelo do prs
In [101]: gwas = GWAS[['SNP', 'P', 'OR', 'A1', 'A2']]
In [102]: gwas.head()
Out[102]:
                               Ρ
                                      OR A1 A2
             rs3131972 0.761033 10.257 A G
         1 rs3131969 0.784919 10.221 A G
         2 rs3131967 0.79352 10.227 T C
            rs1048488 0.761041 0.9749 T C
         4 rs12562034 0.987899 10.011 A G
  renomeando
In [103]: gwas.columns=['snpid', 'pval', 'or', 'a1', 'a2']
  fazendo uma header
In [104]: header = """##fileformat=VCFv4.1
         ##fileDate=20201405
         ##source=gambiarra
         ##reference=file:///seq/references/
         #CHROM POS ID REF ALT QUAL FILTER INFO
In [105]: output_VCF = "gwas.vcf"
In [106]: with open(output_VCF, 'w') as vcf:
             vcf.write(header)
  criando um vcf
In [107]: gwas.to_csv(output_VCF, sep="\t", mode='a', index=False)
```