

Prior probability
for causal SNPs
 $\mathcal{N}(v_i|0, \sigma_i^2)$

Prior probability
for non-causal SNPs

$$\mathcal{N}(v_i|0, \sigma_{\text{bg}}^2)$$

Likelihood
 $\mathcal{L}(v_0, v_i)$

Effect size (v_i)

