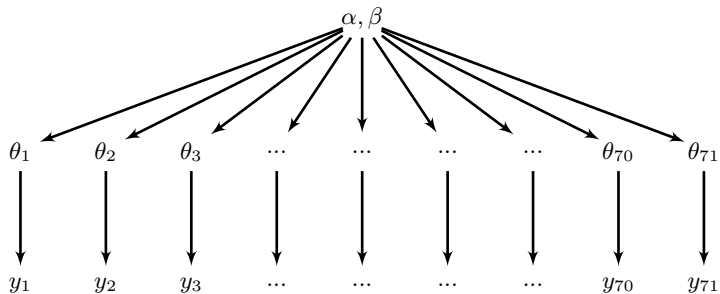Rats tumor

$$p(\alpha, \beta) \propto (\alpha + \beta)^{-5/2}$$

$$\theta_j \sim Beta(\alpha, \beta)$$

$$y_j \sim Binomial(n_j, \theta_j)$$