

## Supplementary Methods S2

*Equation for calculating weighed genetic risk score (GRS) for longevity*

Equation 1 
$$GRS = \beta_1 SNP_1 + \dots + \beta_k SNP_k$$

Where 
$$\begin{aligned} \beta_k &= \text{effect size} \\ SNP_k &= \text{allele dosage} \\ k &= \text{total number of SNPs} \end{aligned}$$