

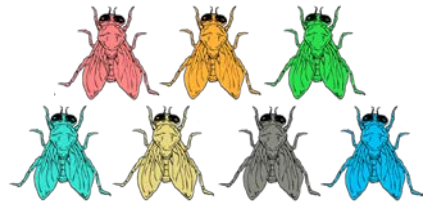
Environmental variation partitioned into separate heritable components

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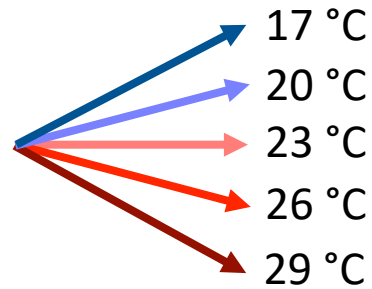
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Traditional partitioning of phenotypic variation: $V_P = V_G + V_E$

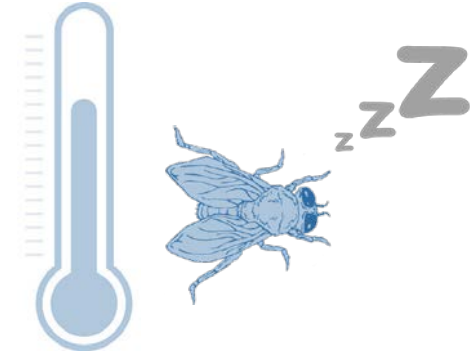
Aim: Investigate the genetic basis for different forms of V_E



Genome-wide homozygous lines with SNP data



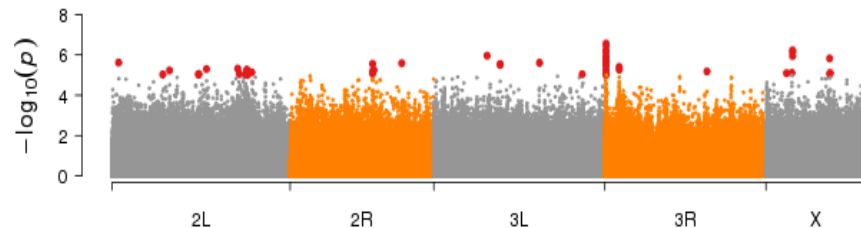
Five rearing conditions



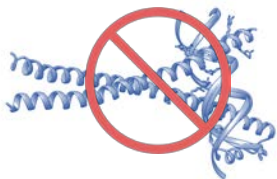
Determine temperature that induce chill coma



Compute measures of V_E
Estimate genetic parameters for V_E



Genome-wide associations for measures of V_E



Gene expression knockdown

Significance: Findings suggests separate selection targets for the different V_E components, which is important for e.g., trait prediction.