

Heritability

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English: *Heritability*
Czech: *Heritabilita, dědivost*



Heritability denotes the fraction of trait variance due to genetic factors (V_G) over the total trait variance (V_P). This **broad-sense heritability** H^2 is thus calculated as follows:

$$H^2 = \frac{V_G}{V_P}$$

H^2 can theoretically reach values between 0 and 1; if $H^2 = 0$, the trait/phenotype variance is fully dependent on environmental factors, on the contrary, if $H^2 = 1$ the environmental factors play no role and the trait variation is determined only genetically.

Often we need to know just the share of additive genetic component (V_A) responsible for trait variance, i.e. the **narrow-sense heritability**, dubbed h^2 and calculated as follows

$$h^2 = \frac{V_A}{V_P}$$

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