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quantitative genetics quantitative genetics deals with the genetics of continuously varying characters rather than considering changes in the frequencies of specific alleles of genotypes quantitative genetics seeks to quantify changes in the frequency distribution of traits that cannot easily be placed in discrete phenotypic classes conduct all genetic analyses described in this paper genetic factors explain x of the population variance in trait y is an oft heard outcome of quantitative genetic studies usually this statement derives from twin family research that exploits known genetic relationships to estimate the contribution of unknown genes to the observed introduction to quantitative genetics 1 1 breeding value and its application heritability is the most important genetic parameter in quantitative genetics 1 2 complicated behavior traits what all living organisms do throughout their lives is partly determined by their genes 1 3 qualitative and 1 solve for n 43 64 $4n$ 64 determining the number of genes the $2n - 1$ rule if n the number of gene pairs then $2n - 1$ will determine the total number of

categories of phenotypes in our example there were 7 phenotype classes $2n - 1$ 7 7 1 6 3 2 2 genotype plus environment

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we are able to replicate it over the universe of environmental values \bar{g} \bar{e} \bar{p} average value of an inbred line over a series of environments population genetics focuses on allele and genotype frequencies whereas quantitative genetics focuses on the ways that variation in genotype and environment contribute to variance in quantitative genetics provides important tools to help elucidate the genetic underpinnings of behavioral and neural phenotypes this information can then provide substantial insights into the

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