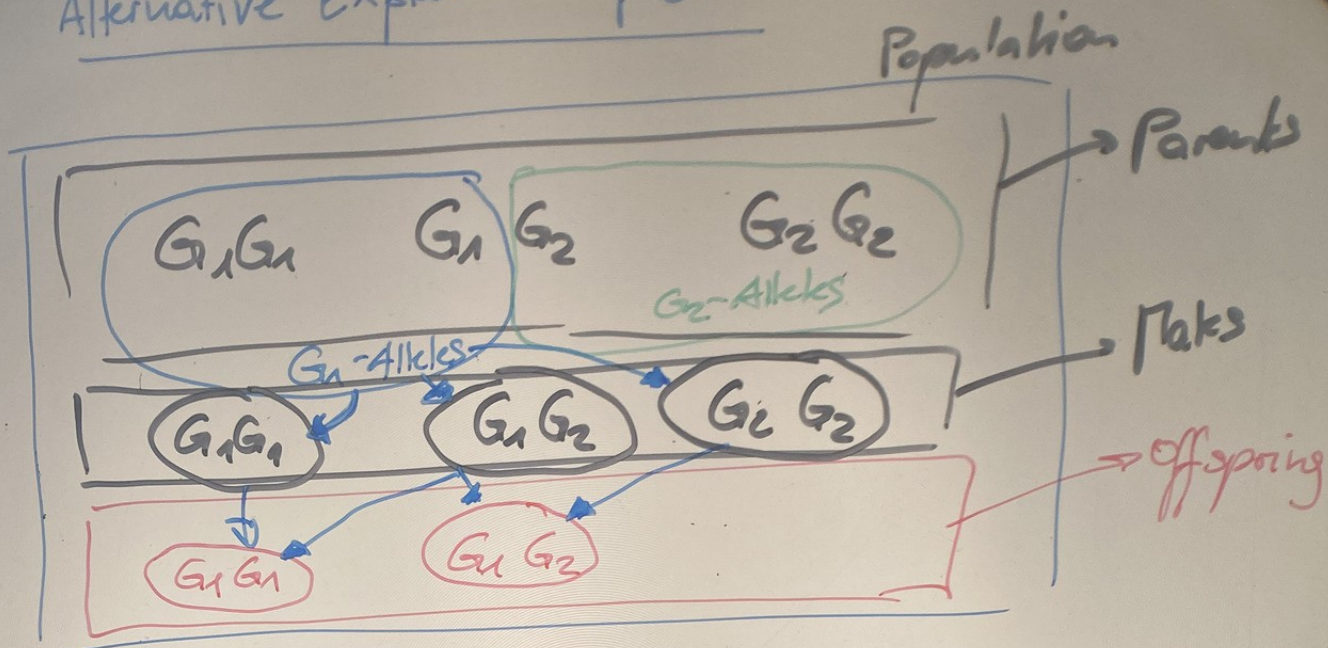


Alternative Explanation of BV

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Allele	Mates	Offspring	Genotypic Values
G_1	G_1G_1	G_1G_1	a
	G_1G_2	G_1G_2	d
	G_2G_2		

Expected genotypic value of offspring from G_1 -Allele

$$\mu_1 = p \cdot a + q \cdot d$$

Deviation of μ_1 from μ

$$\alpha_1 = \mu_1 - \mu = p \cdot a + q \cdot d - [(p+q)a + 2pqd]$$