

Pairwise Differences of BV

(8)

$$\begin{aligned}BV_{11} - BV_{12} &= 2q\alpha - (q-p)\alpha \\&= 2q\alpha - q\alpha + p\alpha \\&= q\alpha + p\alpha = (p+q)\alpha = \alpha\end{aligned}$$

$$\begin{aligned}BV_{12} - BV_{22} &= (q-p)\alpha - (-2p\alpha) \\&= q\alpha - p\alpha + 2p\alpha \\&= q\alpha + p\alpha = \alpha\end{aligned}$$

$\Rightarrow \alpha$ is called Allele-Substitution effect

