



Aldehyde

**Autozygous** - Two alleles are the same because they can be traced directly back to a common ancestor.

**Allozygous** - Two alleles are the same because at least one of them mutated making it the same.

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$$p^2(1-F)$$



*p*

*F*

# Allele Identity

**Autozygous** - Two alleles are the same because they can be traced directly back to a common ancestor.

$$pF$$

**Allozygous** - Two alleles are the same because at least one of them mutated making it the same.

$$p^2(1 - F)$$



# Expected Genotype Frequency

$$E [AA] = p^2(1 - F) + pF$$