Practical Relevance of Hardy-Weinberg Equilibrium

☐ Missing Homocygoacty (MH)

animals are born or later

Animals	Locus 1	Locus 2	Locus 3	- Locus K	Locus 150 000
1	1	∅		1 → G_1G_2	
2	1	1		1	
⋮	2	∅		2	
⋮	1	2		1	
⋮	∅	⋮		2	
N	1	⋮		1	
	∅	1		1	

→ No ∅

Encoding : For Locus G

Genotype	Code
G_2G_2	∅
G_1G_2	1
G_1G_1	2

Genotype freq

$f(G_2G_2) = \emptyset$

~~$f(G_2) = \emptyset$~~

$f(G_1G_1) = p^2$

$f(G_1G_2) = 2pq$

$f(G_2G_2) = \emptyset \neq q^2$

G_1 is the "positive", favorable allele with respect to phenotypic observation