Pedigrees

Generation

I

II

III

I

II

III

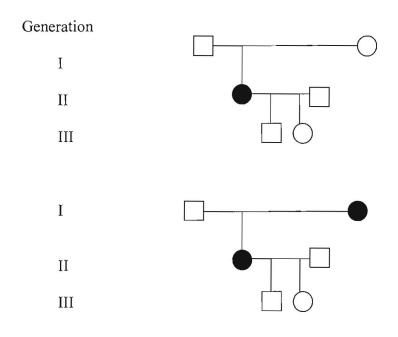--

Dominance Relationships

Alleles = A (normal) & A* (mutant)

A → Peptide
A* → No peptide or altered peptide

Cross = AA* X AA*

What are the **Genotypes**?   1:2:1   AA : AA* : A*A*

What are the **Phenotypes**?

    (1) A dominant to A*   3:1   Normal: Mutant

    (2) A* dominant to A   1:3   Normal: Mutant

    (3) Partial dominance =   1:2:1   Normal: Inbetween: Mutant
    incomplete dominance

    (4) A, A* co-dominant   1:2:1   Normal: Both Alleles Expressed: Mutant