

Inheritance of Human Traits

Single Allele Traits

A = Normal Blood Cells

A' = Sickle Cells

1. Homozygous Normal Blood Cell x Homozygous Sickle Cell

Genotypes _____ %

Phenotypes _____ %

2. Heterozygous Normal Blood Cell x Heterozygous Sickle Cell

Genotypes _____ %

Phenotypes _____ %

3. Heterozygous Normal Blood Cell x Homozygous Normal

Genotypes _____ %

Phenotypes _____ %

Inheritance of Human Traits

Multiple Allele Traits

$I^A I^A$ = Type A
 $I^B I^B$ = Type B
 $i i^o$ = Type O

$I^A I^B$ = Type AB
 $I^A i^o$ = Type A
 $I^B i^o$ = Type B

1. Homozygous Type A x Heterozygous Type AB

Genotypes _____ %

Phenotypes _____ %

2. Heterozygous Type A x Heterozygous Type B

Genotypes _____ %

Phenotypes _____ %

3. Type O x Heterozygous Type A

Genotypes _____ %

Phenotypes _____ %

Inheritance of Human Traits

Sex-linked Traits

X^N = Normal Color Vision
 X^n = Colorblind

1. Homozygous Normal Color Vision Female x Colorblind Male

Genotypes _____ %

Phenotypes _____ %

2. Heterozygous Color Vision Female x Normal Color Vision Male

Genotypes _____ %

Phenotypes _____ %

3. Colorblind Female x Normal Color Vision Male

Genotypes _____ %

Phenotypes _____ %