

Genetics Unit
Codominance worksheet

Name:

Codominance- when both alleles are expressed at the same time

Example: **ABO** system of blood types

This is an example that uses a 3 allele system. A persons blood type is based on the absence or presence of certain proteins in his or her red blood cells.

A is codominant with B-neither covers the other both are expressed independently.

A is dominant over O- Only A is expressed if A and O are present.

B is dominant over O- Only B is expressed if B and O are present.

Possible genotypes

Phenotypes

AA -----	Type A
AO -----	Type A
BB -----	Type B
BO -----	Type B
AB -----	Type AB
OO -----	Type O

Questions

- 1.) If you have type A blood, what are your possible genotypes?
- 2.) If you have type B blood, what could your genotypes be?
- 3.) If you have type AB blood, what must your genotype be?
- 4.) If you have type O blood, what must your genotype be?
- 5.) Could two individuals with type A blood ever produce any offspring with type O blood? Explain your answer completely.
- 6.) could two individuals with type O blood ever produce any offspring with type A blood? Explain.

Genetics Unit Codominance Worksheet Answers

RJ Alexander



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