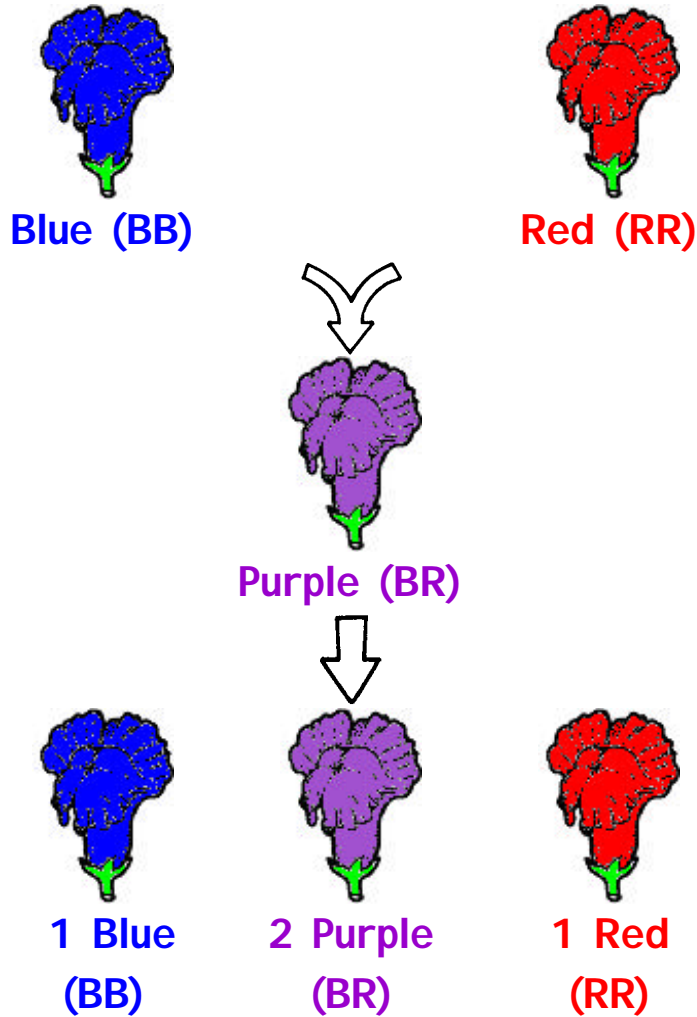


BEYOND MENDEL

INCOMPLETE DOMINANCE

Incomplete
Dominance:
F₁ hybrids
have
appearance in
between 2
parents



CODOMINANCE:

Both alleles expressed

Example: Roan cattle
(spotted, red & white)

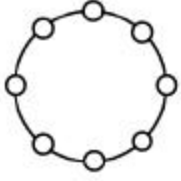
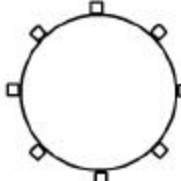
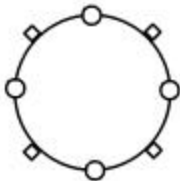
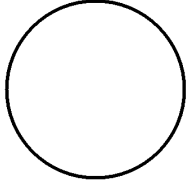

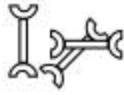

Key:

I^A = type A antigen

i = no antigen

I^B = type B Antigen

ABO BLOOD GROUPS

Blood Type	A	B	AB	O
Genotype	$I^A I^A$ or $I^A i$	$I^B I^B$ or $I^B i$	$I^A I^B$	ii
RBC Antigen	Type A 	Type B 	Types A & B 	none 
Plasma Antibodies	Type B 	Type A 	None	Types A & B 
In Anti-A Serum	Clumping	No clumping	Clumping	No clumping
In Anti-B Serum	No clumping	Clumping	Clumping	No clumping

BLOOD TRANSFUSIONS

Rule: Match the antigen of the donor with the antibodies of the recipient.

Blood Type	Can Donate To	Can Receive From
A	A, AB	A, O
B	B, AB	B, O
AB	AB	AB, A, B, O
O	O, A, B, AB	O