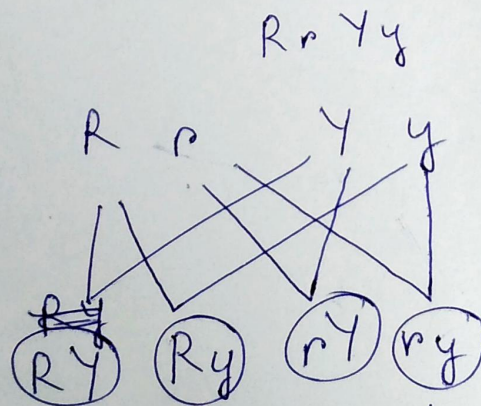
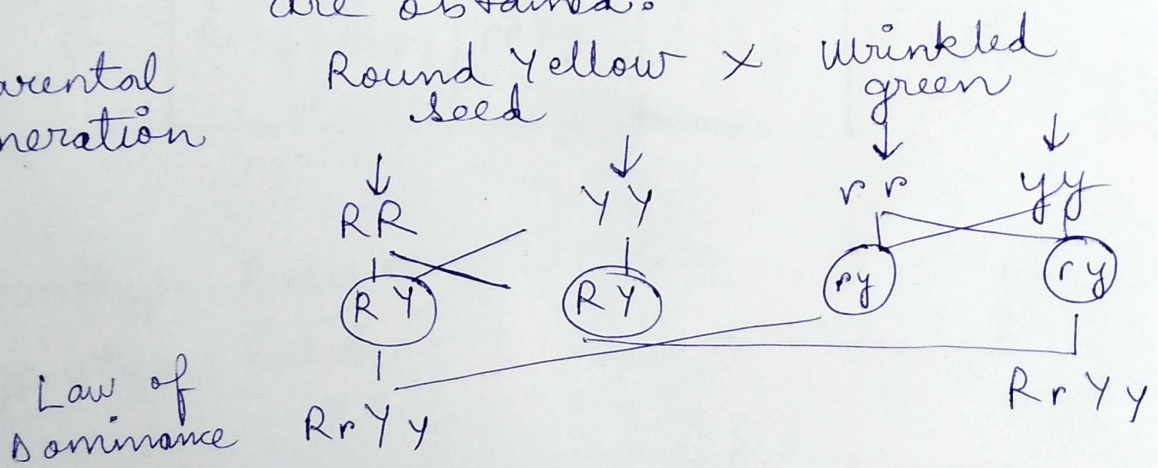


- 1) Father of genetics is Gregor Mendell.
- 2) Mendell chose garden Pea (*Pisum Sativum*) for his pioneer experiment, this is because:-
 - i) Pea is an annual plant.
 - ii) Both self and cross pollination is possible.
 - iii) After crossing, numerous progenies are obtained.

3) Parental Generation



Law of segregation occurs during gamete formation

\rightarrow Law of independent assortment

Dihybrid Cross

$\begin{matrix} R & r \\ R & RY \\ r & rY \end{matrix}$	RY	Ry	rY	ry
RY	$RRYY$ Round yellow	$RRYy$ Round yellow	$RrYY$ Round yellow	$RrYy$ Round yellow
Ry	$RRYy$ Round yellow	$RRyy$ Round green	$RrYy$ Round yellow	$Rryy$ Round green
rY	$RrYY$ Round yellow	$RrYy$ Round yellow	$rrYY$ wrinkled yellow	$rrYy$ wrinkled green
ry	$RrYy$ Round yellow	$Rryy$ Round green	$rrYy$ wrinkled yellow	$rryy$ wrinkled green

Phenotype Ratio = 9 : 3 : 3 : 1

Genotype Ratio = 1 : 2 : 2 : 4 : 1 : 2 : 1 : 2 : 1