

Exercise 10

Aim: To verify the Mendel's Law of Independent Assortment

Principle: In a dihybrid cross, the segregation of one gene pair is independent of the segregation of the other pair. It means that genes of two different traits assort independently to give a probability ratio equal to segregation probability ratio of one allele pair X segregation probability ratio of other allele pair, which comes to, $(3:1) \times (3:1) = 9:3:3:1$

Requirement: Plastic beakers; 64 plastic beads each of yellow, green, red and white to represent, yellow and green colour of seed coat and red and white flowers respectively and napkin/hand towel

Procedure

Students are to work in pair.

The following steps are to be followed sequentially:

- (i) Place 64 beads of each colour in four separate beakers.
- (ii) Put the beakers containing the yellow and red beads on your left side, and those containing the green and white beads on your right side. The beakers on your left side represent plants bearing yellow seed and red flower (dominant character YY, RR). Beakers on the right side represent plants bearing green seeds and white flowers (recessive character yy, rr). These are the two parental types having contrasting forms of two different characters.
- (iii) Stir the beads in each beaker with a pencil/pen. Each bead now represents alleles in the male and female gametes.
- (iv) Pick up one yellow, one green, one red and one white bead, and put them together on the napkin spread on the table.
- (v) Continue picking up and putting together of the beads of all colours as mentioned in the previous step, till all the beads are utilised.
- (vi) Note that in all, 64 such 4-bead clusters are obtained representing the F_1 individuals. Ascertain their genotype and phenotype.
- (vii) Next step is to cross these F_1 individuals to raise the F_2 generation. Let us suppose half of the 4-bead clusters (32 clusters) represent the male parents and the remaining half (32 clusters) the female parents. Now put the 32 red and 32 white beads together in one beaker (numbered-I), and similarly put 32 yellow and 32 green beads together in other

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