

COMPTO 13-07-2026

# ESERCIZIO 1

genotipi parentali:

$$++y/++y \otimes wx+/wx+$$

$$(F1) ++y/wx+ \otimes wry/wry$$

$$(F2) \begin{matrix} wx+ \\ ++y \end{matrix} \left[ \begin{matrix} 447 \\ 450 \end{matrix} \right] \begin{matrix} ++ \\ wry \end{matrix} \left[ \begin{matrix} 15 \\ 12 \end{matrix} \right] DCO \quad w \rightarrow \text{gene cutale}$$

GENOTIPI CORRETTI

$$(RI) \begin{matrix} ++y \\ ++w \end{matrix} \begin{matrix} 135 \\ 126 \end{matrix}$$

$$(RII) \begin{matrix} ++ \\ 2wry \end{matrix} \begin{matrix} 140 \\ 128 \end{matrix} \quad (P) \begin{matrix} ++y \\ ++w \end{matrix} \begin{matrix} 447 \\ 450 \end{matrix}$$

$$(DCO) \begin{matrix} ++ \\ ++wry \end{matrix} \begin{matrix} 15 \\ 12 \end{matrix}$$

$$D_{r-w} = \frac{135 + 126 + 15 + 12}{1453} \times 100 = 19,82 \text{ um}$$

$$D_{w-y} = \frac{140 + 128 + 15 + 12}{1453} \times 100 = 20,3 \text{ um}$$

$$CC = \frac{15 + 12}{0,20 \times 0,19 \times 1453} = 0,461 \quad I = 1 - 0,461 = 0,539$$

$$(b) \quad DCO=0 \quad \frac{\begin{matrix} + & + & + \\ \times & & \end{matrix}}{\begin{matrix} r & w & y \end{matrix}} \quad \otimes \quad \frac{\begin{matrix} + & + & + \\ \times & & \end{matrix}}{\begin{matrix} r & w & y \end{matrix}} \rightarrow \frac{\begin{matrix} + & w & y \\ + & w & y \end{matrix}}{?}$$

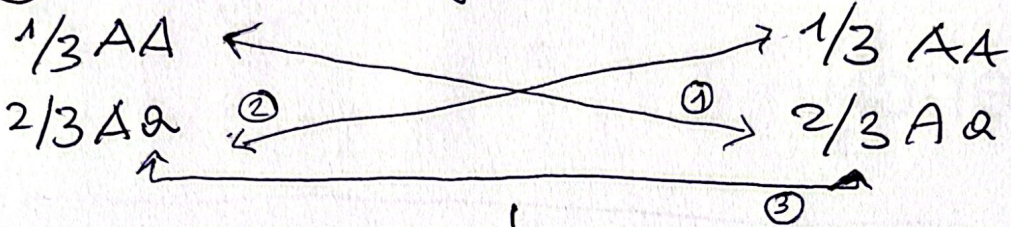
$$\text{unico gamete utile } ++wry \rightarrow RI/2 \rightarrow \left( \frac{0,1982}{2} \right)^2$$

## Esercizio 2

a)

④ figlio di eterozigoti Aa

③ figlia di eterozigoti



figlio/a Aa?

$$① \frac{1}{3} \times \frac{2}{3} \times \left(\frac{1}{2}\right) = \frac{1}{9}$$

$$② \frac{2}{3} \times \frac{1}{3} \times \left(\frac{1}{2}\right) = \frac{1}{9}$$

$$③ \frac{2}{3} \times \frac{2}{3} \times \left(\frac{1}{2}\right) = \frac{2}{9}$$

$$\frac{4}{9} \rightarrow Aa$$

b)

①

1/2 AA

②

Aa 1

1/2 Aa

figlio/a aa?

$$\frac{1}{2} \times 1 \times \left(\frac{1}{4}\right) = \frac{1}{8}$$

maschio?

$$\frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$$

## ESERCIZIO 3

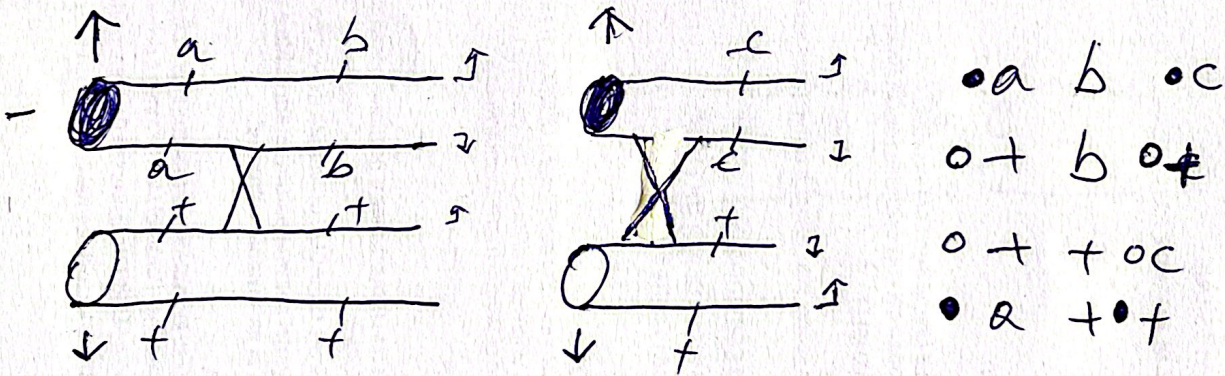
abc @ + + +

|                  | PD  | NPD | T   |
|------------------|-----|-----|-----|
| a <sub>0</sub> b | 340 | 0   | 20  |
| ++               | 15  |     | 160 |
|                  | 85  |     | 2   |
|                  | 75  |     |     |

PD >> NPD → associati  
TOT = 697

$$D_{ab} = \frac{0 + \frac{1}{2}(20 + 160 + 2)}{697} \times 100 = 13,05 \text{ u/m}$$

⑥



(anche altre possibilità non mostrate)

## ESERCIZIO 4

gruppi di compattezza

A {a; f; g}

B {b; c; i}

C {d; e; h}

