

COMPITO A 15.06.2022

ESERCIZIO #1

$N = \text{nero}$ $n = \text{giallo}$ (P) nero verdi lunga (P) giallo blu corta
 $B = \text{blu}$ $b = \text{verde}$ $(F1)$ nero blu lunga $(NnBbLl)$
 $L = \text{lunga}$ $l = \text{corta}$

$NnBbLl \otimes nnbbll$

$(F2)$

nBl 445] P
 NbL 438]

NBL 132] R(RI)
 nbl 112]

Confronto tra
 nBl (parentale) \rightarrow Nsta al centro
 NbL (DCO)

NbL 106] R(RII)
 NBL 120]

NbL 3] DCO
 nbl 4]

β I n II e

Totale = 1360

$$D_{bn} = \frac{132 + 112 + 3 + 4}{1360} \times 100 = 18.4 \text{ uvm}$$

$$D_{nl} = \frac{106 + 120 + 3 + 4}{1360} \times 100 = 17.1 \text{ uvm}$$

$$cc = \frac{(3+4)}{0,184 \times 0,171 \times 1360} = \frac{7}{42} = 0,17 \quad I = 1 - 0,17 = 0,83 \rightarrow 83\%$$

b) genotipo classe fenotipica più rara (DCO) $\frac{BnL}{bne}$ e $\frac{bnL}{bne}$

$\frac{BnL}{bne} \times \frac{bnL}{bne} \rightarrow \frac{BnL}{bne} ?$

geneti letti: BnL (parentale); BnL (RII)

$$f(DCO) \text{ variati} = 0,184 \times 0,171 \times 0,17 = 0,053$$

$$f(RII) = 0,171 - 0,053 = 0,118$$

$$f(RI) = 0,184 - 0,053 = 0,131$$

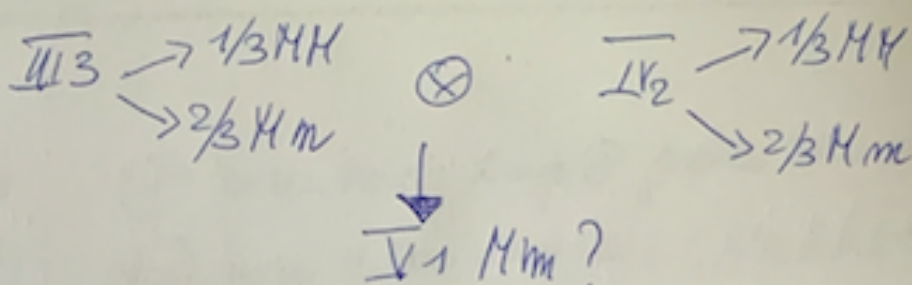
$$f(P) = 1 - (0,053 + 0,118 + 0,131) = 0,698$$

$$\text{gamete } BnL = 0,698/2 + 0,118/2 = 0,408$$

$\frac{bnL}{bne} \times \frac{bnL}{bne} \rightarrow$ non genera fenotipo richiesto

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ESERCIZIO #2



III_3 \otimes IV_2
 MH (1/3) $\rightarrow \frac{1}{2} \cdot \frac{1}{3} \cdot \frac{2}{3} = \frac{1}{9}$
 Mm (2/3) $\rightarrow \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{3} = \frac{1}{9}$
 Mm (2/3) $\rightarrow \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{2}{3} = \frac{2}{9}$
 Probabilità totale = $\frac{1}{9} + \frac{1}{9} + \frac{2}{9} = \frac{4}{9}$

ESERCIZIO #3

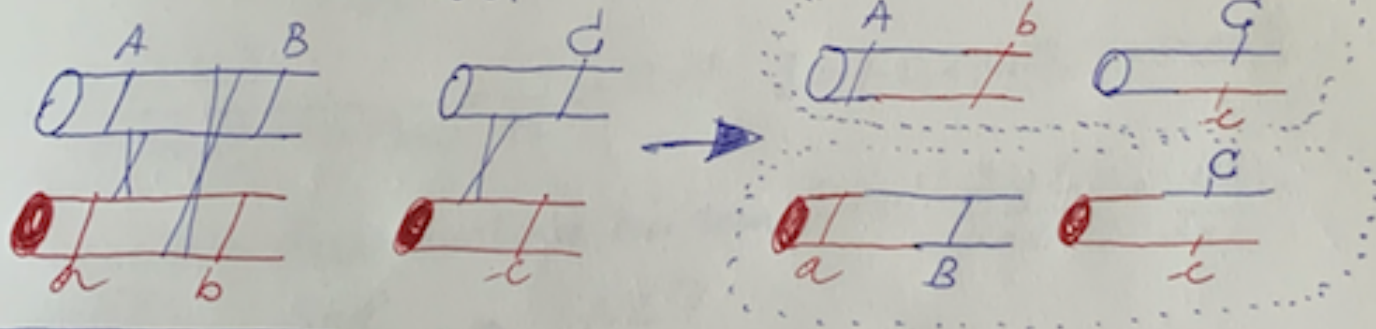
ABC \otimes abc

geni	PD	NPD	T
AB	300 335	28	60 56 200 98

$PD \gg NPD$
 AB = associati

Tetrad (NON) ordinate

$$D_{AB} = \frac{28 + \frac{1}{2}(30 + 56 + 200 + 98)}{1067} \times 100 = 21,55 \text{ u.m.}$$



ESERCIZIO #4

