

Exercice : calcul de l'accord inter-annotateurs

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Exercice

Utilisez les données de la campagne d'annotation de relations de renommage de noms de gènes et :

1. calculez les coefficients :

▶ S

▶ κ

▶ π

2. que remarquez-vous ?

Rappel des formules

		Annotateur A		
		Oui	Non	Total
Annotateur B	Oui	24	8	32
	Non	14	24	38
	Total	38	32	70

► Accord observé : $A_o = \frac{24+24}{70} = 0,68$

► Accord attendu :

1. $A_e^S = \frac{1}{2} = 0,5$

2. $A_e^\pi = \frac{\left(\frac{(38+32)}{2}\right)^2 + \left(\frac{(32+38)}{2}\right)^2}{70^2} = 0,5$

3. $A_e^\kappa = \frac{\frac{(32 \times 38)}{70} + \frac{(38 \times 32)}{70}}{70} = 0,49$

► Coef. :

1. $S = \frac{0,68-0,5}{1-0,5} = 0,36$

2. $\pi = \frac{0,68-0,5}{1-0,5} = 0,36$

3. $\kappa = \frac{0,68-0,49}{1-0,49} = 0,37$

Renommage de noms de gènes

"The yppB :cat and ypbC :cat null alleles rendered cells sensitive to DNA-damaging agents, impaired plasmid transformation (25- and 100-fold), and moderately affected chromosomal transformation when present in an otherwise Rec+ B. subtilis strain. The yppB gene complemented the defect of the recG40 strain.

<former-name1 id="1">yppB</former-name1> and <former-name2 id="2">ypbC</former-name2> and their respective null alleles were termed "<new-name1 id="1">recU</new-name1>" and "recU1" (recU :cat) and "<new-name2 id="2">recS</new-name2>" and "recS1" (recS :cat), respectively. The recU and recS mutations were introduced into rec-deficient strains representative of the alpha (recF), beta (addA5 addB72), gamma (recH342), and epsilon (recG40) epistatic groups. "

Renommage de noms de gènes

		A1			
		Former	New	Nothing	Total
A2	Former	71	13	23	107
	New	8	69	15	92
	Nothing	7	8	18 840	18 855
	Total	86	90	18 878	19 054

Changer de point de vue

		A1			
		Former	New	Nothing	Gene names
A2	Former	71	13	23	107
	New	8	69	15	92
	Nothing	7	8	951	966
	Gene names	86	90	989	1 165