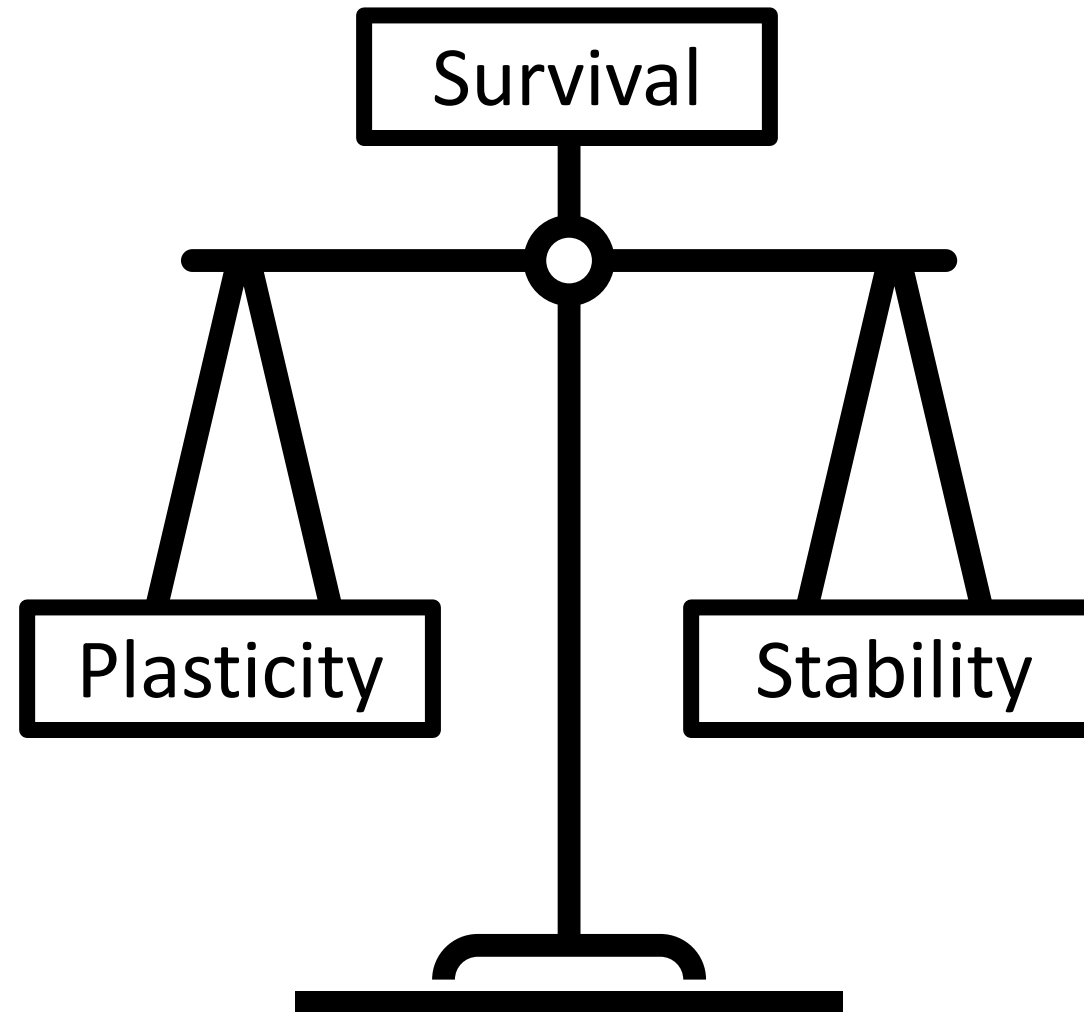


Variations stochastiques dans la réparation de l'ADN bactérien et impact sur la résistance aux antibiotiques

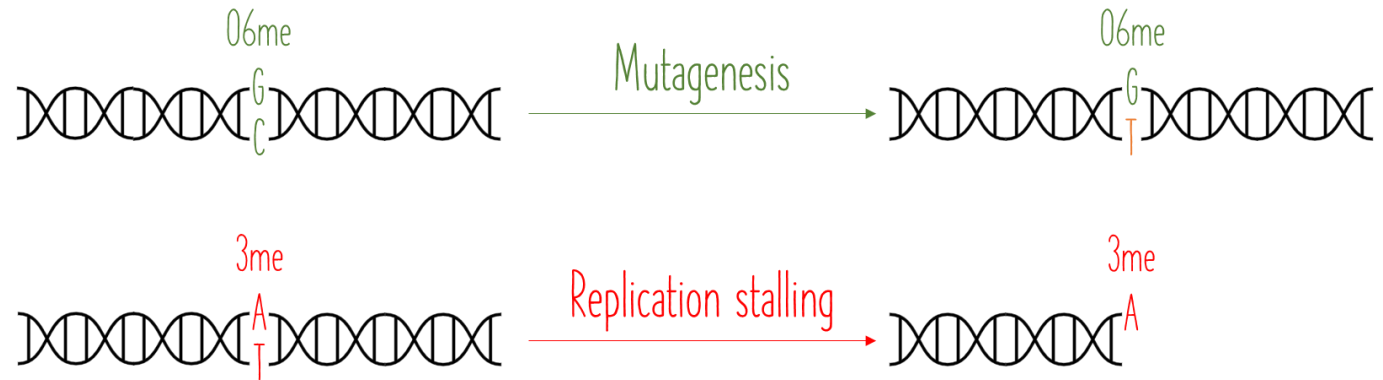
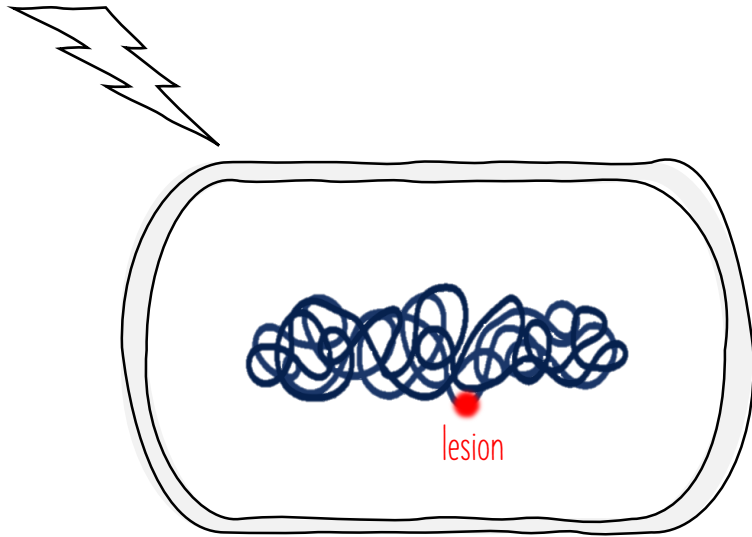
Maxence VINCENT
CR CNRS LCB
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How do cells balance mutagenesis and repair?

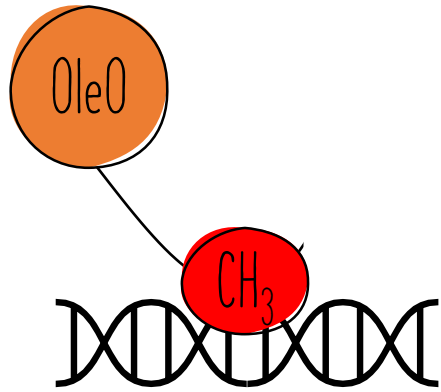


From DNA lesions to permanent mutations

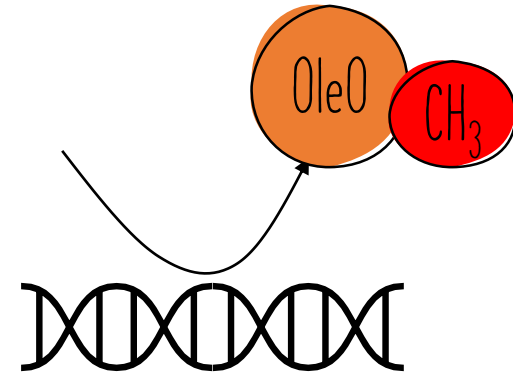
Stress
(MMS)



Direct removal of alkylated DNA



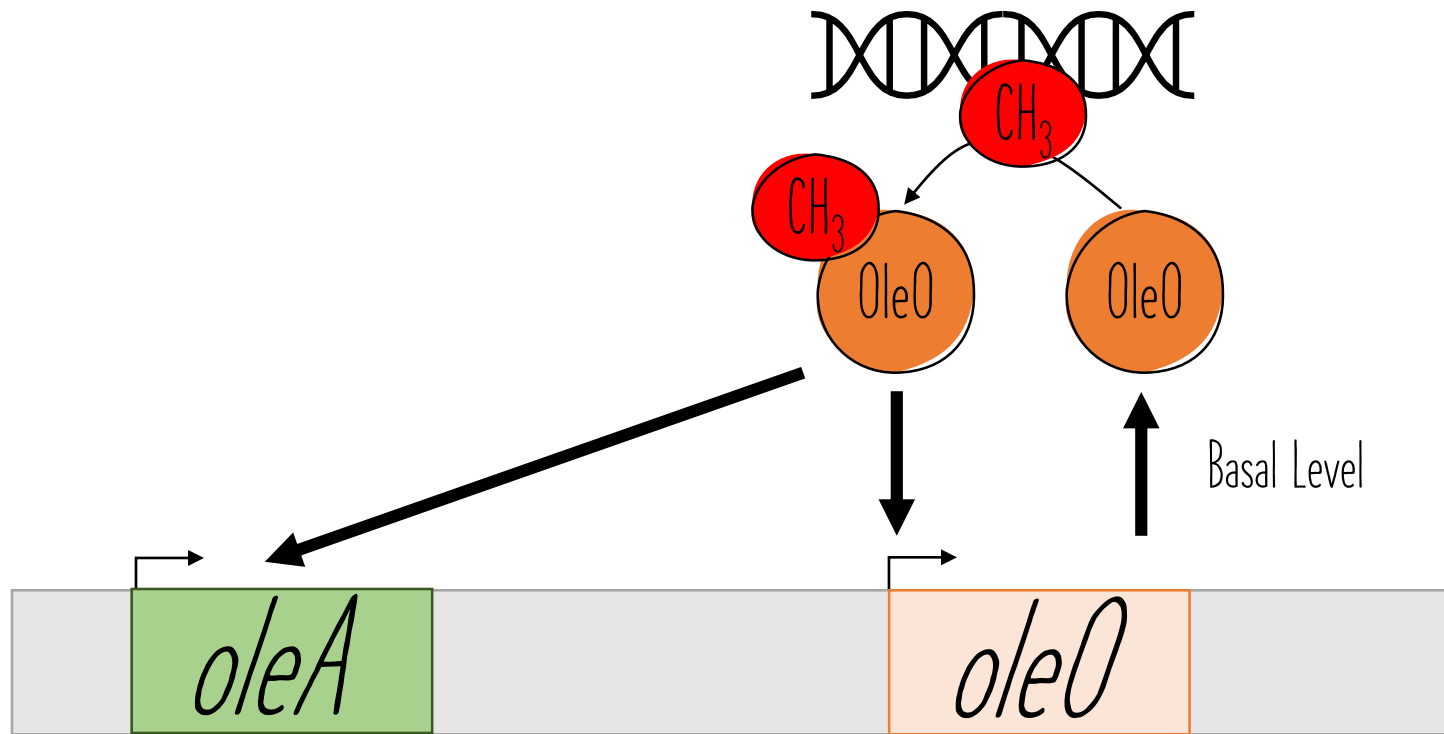
Detection



Repair

Inducible repair based on a positive feedback loop

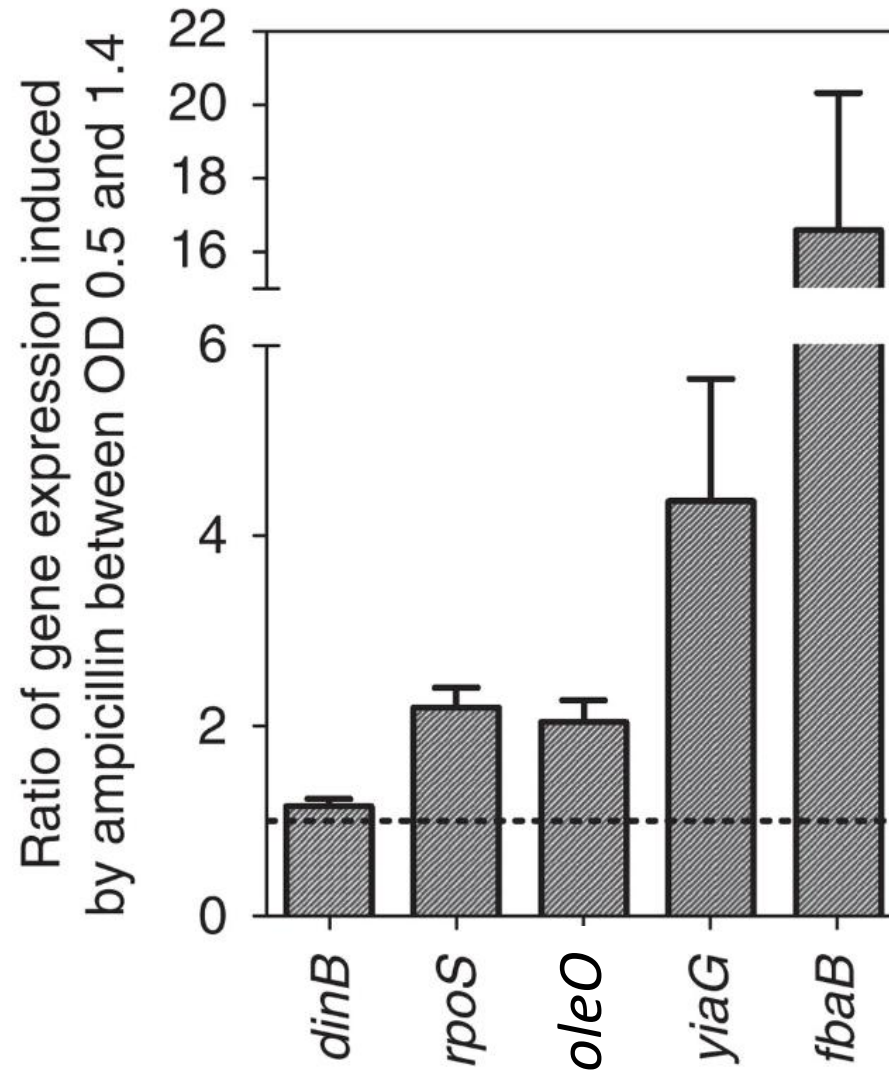
Direct Repair of alkylated DNA



QUESTIONS 1

Les variations stochastiques de l'activation de *oleO* entraînent-elles des fluctuations du taux de mutations entre cellules de la population ?

oleO is induced by beta-lactam treatments



QUESTIONS 2

L'activation de *oleO* par les beta-lactam est elle hétérogène ?
Si oui, accélère-t-elle le développement de résistances ?