



Christophe de Champs Lab

qnrD-bearing small plasmids





SOS response induction



Is *qnrD* gene expression SOS-regulated?





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qnrD expression is SOS regulated in a LexA/RecA dependent manner.

Is *qnrD* SOS-mediated expression specifically induced by fluoroquinolones?





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qnrD gene expression is upregulated after sub-MIC TOB treatment.

Why TOB induces SOS-dependent *qnrD* expression in this *E*. *coli* strain?



Small plasmid presence is needed for SOS induction by sub-MIC TOB.

Sub-MIC TOB causes DNA damage through ROS formation in this *E. coli* strain?





Do small plasmids stimulate ROS formation?



No ROS TOB-stimulated formation in the presence of *qnrD*.

Do small plasmids stimulate NO formation?



NO formation in *E. coli* carrying *qnrD* with TOB.

Summary



Acknowledgements

