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Short term effect of Aldicarb on C.elegans

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Behavioural Genomics

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Protocol status: Working
We use this protocol and it's working

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Abstract

- Aldicarb is a cholinesterase inhibitor which prevents the breakdown of acetylcholine in the synapse
- Reported to paralyze C. elegans
- Strains of interest believed to be resistant to the paralytic effect
- Strains: OW1601 & OW1603

1 Bleach synchronize the worms on a Friday

2 Following Monday refeed the arrested L1s on OP50 seeded plates, make 2plates per strain keeping one plate at 20C and the other at 25C

3 The day before tracking (Wednesday) add 35ul of 2.5mM AK to 24 imaging plates

4 Also, seed those drugs treated 24 imaging plates and additional 24 non-treated imaging plates with 50ul of 1:10 OP50 and leave to dry O/N

5 On the day of tracking (Thursday), transfer 5 worms per strain on to the aldicarb treated plates and leave for 1.5hrs, pick onto the controlled plates too

6 After 1.5hrs image for 15mins on Phenix

Track 8 sets: (2 treatment sets + 2 control sets with no treatment) x 2 growth temperatures