

## Dietary rotenone and paraquat on larval development 👄

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Wen Aw1

<sup>1</sup>z3314717@unsw.edu.au

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Cage Studies



Wen Aw

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THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Aw WC, Towarnicki SG, Melvin RG, Youngson NA, Garvin MR, Hu Y, Nielsen S, Thomas T, Pickford R, Bustamante S, Vila-Sanjurjo A, Smyth GK, Ballard JWO (2018) Genotype to phenotype: Diet-by-mitochondrial DNA haplotype interactions drive metabolic flexibility and organismal fitness. PLoS Genet 14(11): e1007735. doi: 10.1371/journal.pgen.1007735

**PROTOCOL STATUS** 

## Working

1	Rotenone (Sigma R887	(and para	aquat were s	solubilised in DMS	30 to p	prepare a 5 mM sto	ock

- Stock solutions were added to the diet to final treatment concentrations of 0, 3.125, 6.25, 12.5 and 25uM at 50°C
- From the dilution series, we determined an assay concentration of 3.13  ${\rm \hat{A}}\mu$  for both chemicals. 3
- The dietary rotenone and paraquat were used in larval development assays.

Rotenone treated larvae underwent Complex I activity assay (Refer to larval development and Complex I activity protocol)

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