

Fertility 👄

PLOS Genetics

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EXT ERNAL LINK

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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	Collect eggs from adults of both mitotypes raised on instant food
2	Posit eggs onto experimental diet
3	Collect eclosing females as virgins
4	Place virgins in vials containing experimental diet, with two females per vial
5	Add one male of each mitotype to vials containing virgin females
6	After 24 hours move flies to new vials
7	Repeat step 6
8	Remove all flies from vials

Allow new generation to eclose

- 10 Count number of eclosing adults
- 11 Determine fertility as number of eclosing adults per female

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