



## Larval Feeding [↗](#)

PLOS Genetics

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[dx.doi.org/10.17504/protocols.io.rw7d7hn](https://doi.org/10.17504/protocols.io.rw7d7hn)

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### EXTERNAL LINK

<https://doi.org/10.1371/journal.pgen.1007735>

### 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](https://doi.org/10.1371/journal.pgen.1007735)

### PROTOCOL STATUS

**Working**

- 1 Both mitotypes were raised on the 1:16 P:C diet
- 2 Dye labeled food was produced by combining 72 ml of food with 8 ml FD&C blue 1 dye (0.5% w/v) while the food was at 60°C
- 3 50 second instar larvae from each mitotype were placed on the dye labelled food
- 4 Larvae were allowed to feed for 60 min
- 5 Larvae with dye visible in their gut were collected (48 from each mitotype), homogenized, and absorbance at 630 nm was recorded.



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