

Superoxide levels 🖘

PLOS Genetics

Sam Towarnicki¹

¹University of New South Wales

dx.doi.org/10.17504/protocols.io.ufuetnw

Cage Studies



Sam Towarnicki

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

PROTOCOL STATUS

Working

- Larvae were dissected in PBS to produce muscle fillets.
- Fillets were incubated in 20 mM 2',7'-dichlorodihydrofluorescein diacetate (H2DCFDA) for 30 m at 23° C.
- Fillets were washed twice in PBS, fixed in 2% paraformaldehyde for 10 minutes at 23° C, mounted on glass slides and imaged by confocal 3 laser scanning microscopy at 495/520 nm (Excitation/Emission).
- Pixel intensity was measured by ImageJ (https://imagej.nih.gov/ij/) using the nikon6D plugin.

This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited