***Thermal sensitivity of fertilised eggs is underappreciated cost of extreme heat events in a model insect***

filename: **“*Expt 1\_Egg\_sHW*”**

* **‘.csv’ file containing data for the 2 h egg assay (experiment 1)**

Column name: ID (Column # A)

* Anonymisation codes (Rows 2–7)
* Anonymised to all (set up by a different user not running the experiment or carrying out the offspring counts.

Column name: Blinded\_codes (Column #B)

* Temperature treatment (egg exposures)
* three levels (30°C, 48°C and 50°C)

Column name: Pop (Column #C)

* Population from which the adults were sourced
* KSS- ‘Kraków super strain’ a genetically diverse stock made of 11 different strains maintained in the lab since 2010.

Column name: Rep (Column #D)

* A, B indicate random replicate code for pots

Column name: Temp (Column #E)

* Egg exposure temperatures, these are the treatments (categorical variable, coded as a factor)

Column name: Duration (Column #F)

* set duration of exposure (2 hours, categorical variable, factor)

Column name: Counts (Column #G)

* Offspring counted 35 days after heat exposures from each replicate pot

Column name: RH (Column #H)

* Relative humidity values (%) captured by the climate chamber for the 2 h

Column name: Exposure (Column #I)

* Stage exposed; Fertilised eggs that were oviposited by female into the fodder medium

filename: **“*Expt 1A and 2\_Egg\_sHW\_repeat*”**

* **‘.csv’ file containing data for the 2 h, 5 h egg assays and the 15 g and 7.5 g of fodder (experiment 1 and 2)**

Column name: Blinded\_codes (Column #A)

* Temperature treatment (egg exposures)
* three levels here (30°C, 46°C and 48°C)
* Anonymised to all (set up by a different user not running the experiment or carrying out the offspring counts.

Column name: ID (Column # B)

* Anonymisation codes (Rows 2–61).

Column name: Counts (Column #C)

* Offspring counted 35 days after heat exposures from each replicate pot.

Column name: Duration (Column #D)

* set duration of exposure (2 hours, 5 hours, categorical variable, factor).

Column name: ForT (Column #E)

* Fodder quantities manipulated with two factor levels (7.5 g and 15 g) using a standardised measuring scoop.

Column name: Rep (Column #F)

* Two levels denoting either replicate 1 or 2 of the experiments.

Column name: Counted by (Column #G)

* User that helped with the counts (nominal).

Column name: Species (Column #H)

* Species used in this experiment

Column name: Setup (Column #I)

* User that set up the experiment, executing the design

Column name: Expt (Column #J)

* Institution code where it was run

filename: **“R code for Sperm-egg thermal stress”**

* ‘ contains the R code with the package details, annotated experimental analyses and citation information for each of the packages employed within this work package’.

filename: **“Revised\_Electronic Supplementary materials\_230524”**

* ‘ contains additional information on the methodology that supplements the materials and methods section of the main text and other relevant details on the set up of the egg assays’.