Paternal\_effects\_data.xls

This excel file contains 5 data sheets:

1.paternal gene expression

The data in this file can be used to recreate the analysis of gene expression depicted in figure 2a/b and tables 1&2

* CricketID encodes the diet provided (D1 through D24) and fatherID (M1, M2, etc)
* P.per.mg is the total amount of protein consumed per mg of cricket
* C.per.mg is the total amount of carbohydrate consumed per mg of cricket
* G1262 is the expression (deltaCT) of isotig 1262
* G1709 is the expression (deltaCT) of isotig 1709
* G5129 is the expression (deltaCT) of isotig 5129

2. paternal morphology

The data in this sheet can be used to recreate the analysis in figure 1a/b and tables 1&2

* Columns as above, plus the combined weight of both testes (Testes) and the weight of the accessory glands (Ag).

3. embryo viability

The data in this sheet can be used to recreate the analysis in figure 3 and tables 1&2

* Embryo viability is the proportion of 100 developing eggs that hatched

4. sons’ sperm & sfp expression

The data in this sheet can be used, with the protein and carbohydrate consumed data from sheet 1 above, to recreate the analyses in figure 4 and Table 3

* D refers to the diet provided (1-24)
* M to the father ID number
* Offspring replicate
* Live sperm (green, G)
* Dead sperm (red, R)
* Sperm viability (proportion green)
* #sons assayed for each father
* Average SV
* GE1262: Gene expression (deltaCT) for isotig 1262
* GE1709: Gene expression (deltaCT) for isotig 1709

5. daughters’ ovary

The data in this sheet, along with paternal P and C intake from sheet 1, can be used to replicate the analysis in Table 3

* D refers to the diet provided (1-24)
* M to the father ID number
* Offspring replicate
* Weight, body mass of female in mg
* Pronotum, the width of the females pronotum in mm
* Ovary, the weight of the ovary in mg