Dear data user,

Below are the abbreviations and explanations of column headings in our data files used in Ala-Honkola et al. 2016: “Postmating-prezygotic isolation between two allopatric populations of Drosophila montana; fertilisation success differs under sperm competition”.

“Additional file1.xls” lists used SNP markers:

The columns correspond to marker name, usage in parentage analysis (parents and offspring), usage in population analysis, the *Drosophila virilis* gene the marker maps to, the relevant *D. virilis* chromosome and the top blast hit of the marker by using Blast2GO (Conesa et al., 2005).

The data file “First mating” includes all females that mated in the first mating and the number of eggs they laid and the number of offspring that eclosed from eggs laid after the first mating.

The data file “copdur2\_mating\_latency2” includes females that remated and for which we recorded copulation duration of the 2nd mating. It also includes and the number of eggs they laid and the number of offspring that eclosed from eggs laid after the second mating.

The file “Paternities no zero P2” includes females that were used in P2 analyses.

The file “All matings” lists all females that mated in the first mating and their behaviour after it as well. This file should be used cautiously as it may not be exactly the same as the files above that have been used in statistical analysis (some wrongly typed numbers have been corrected in the above files). We give this file so that it is possible to see which females remated and which did not.

Column headings:

Female : Female id number (a running number from 1 to 400)

fweight: Female weight in mg

prioreggs: Number of eggs laid before the second mating

remeggsd12: Number of eggs laid during the first two days after remating

remeggsd34: Number of eggs laid during days 3 and 4 after remating

remeggsd56: Number of eggs laid during days 5 and 6 after remating

trt: Treatment (female population, first male population, second male population)

prioroff: Number of offspring produced after the first mating

remoffd12: Number of offspring produced during the first two days after remating

remoffd34: Number of offspring produced during days 3 and 4 after remating

remoffd56: Number of offspring produced during days 5 and 6 after remating

totremoff: Total number of offspring produced after remating

fpop: Female population

m1pop: First male population

m2pop: Second male population

matlat1: Mating latency in the first mating (time from pairing the flies until the start of copulation) in s

copdur1: Duration of the first copulation in s

matlat2: Mating latency in the second mating (time from pairing the flies until the start of copulation) in s

copdur2: Duration of the second copulation in s

day: time point of P2 measurement (1 = days 1-2, 2 = days 3-4, 3 = days 5-6)

m1prog99: Number of progeny sired by the first male to mate (99 % confidence for paternity assignment)

m2prog99: Number of progeny sired by the second male to mate (99 % confidence for paternity assignment)

If you have questions about the data file, don’t hesitate to contact me (outi.alahonkola@gmail.com).

With best regards, Outi Ala-Honkola