Supplementary Table 3. Effect of population, sex, treatment, and their interaction on body mass and tail length (n=80). Phenotypic changes are depicted in Figure 3. The table reports results of linear mixed effects models. The numerator degrees of freedom is 1 for all predictors. The models were of the form:

Response Variable ~ Body Mass + Population \* Sex \* Treatment + (1|Line)

|  |  |  |  |
| --- | --- | --- | --- |
| Response Variable | Predictor | χ2 | *P* value |
| Body Mass | Population | 4.95 | 0.026\* |
|  | Sex | 20.14 | 7.20 x 10-6\*\*\*\* |
|  | Treatment | 0.074 | 0.79 |
|  | Population:Sex | 2.64 | 0.10 |
| Tail Length | Body Mass | 51.95 | 5.70 x 10-13\*\*\*\* |
|  | Population | 15.48 | 8.32 x 10-5\*\*\*\* |
|  | Sex | 2.78 | 0.10 |
|  | Treatment | 5.4843 | 0.019\* |
|  | Population:Treatment | 7.53 | 0.0061\*\* |

\**P*<0.05, \*\**P* <0.01, \*\*\**P* <0.001, \*\*\*\**P* <0.0001