**Figure 3-source data 1A.** Lifespan analysis of *FBGS> UAS chinmoRNAi* strain.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Lifespan (Days)** | | **p value** | **2** |
| #Experiment 1 | Maximum  (Number of flies) | Median |  |  |
| *FBGS/+; UAS chinmoRNAi/+ DR-RU* | 92(138) | 62 | 0.0408 | 4.185 |
| *FBGS/+; UAS chinmoRNAi/+ DR+RU* | 102(88) | 60 |
| *FBGS/+; UAS chinmoRNAi/+ AL-RU* | 72(97) | 42 | 5.40E-06 | 20.70 |
| *FBGS/+; UAS chinmoRNAi/+ AL+RU* | 80(98) | 50 |
| *FBGS/+; UAS chinmoRNAi/+ DR-RU* | 92(138) | 62 | 0.00E+00 | 86.08 |
| *FBGS/+; UAS chinmoRNAi/+ AL-RU* | 72(97) | 42 |
| *FBGS/+; UAS chinmoRNAi/+ DR+RU* | 102(88) | 60 | 7.80E-07 | 24.41 |
| *FBGS/+; UAS chinmoRNAi/+ AL+RU* | 80(98) | 50 |
|  | | | | |
| Experiment 2 |  |  |  |  |
| *FBGS/+; UAS chinmoRNAi/+ DR-RU* | 96(205) | 42 | 1.00E-05 | 19.5 |
| *FBGS/+; UAS chinmoRNAi/+ DR +RU* | 98(179) | 54 |
| *FBGS/+; UAS chinmoRNAi/+ AL-RU* | 58(182) | 30 | 0.00E+00 | 49.65 |
| *FBGS/+; UAS chinmoRNAi/+ AL+RU* | 70(178) | 40 |
| *FBGS/+; UAS chinmoRNAi/+ DR-RU* | 96(205) | 42 | 0.00E+00 | 104.64 |
| *FBGS/+; UAS chinmoRNAi/+ AL-RU* | 58(182) | 30 |
| *FBGS/+; UAS chinmoRNAi/+ DR+RU* | 98(179) | 54 | 0.00E+00 | 136.78 |
| *FBGS/+; UAS chinmoRNAi/+ AL+RU* | 70(178) | 40 |

#Experiment 1 is represented in Figure 3; \*p value calculated by log rank test; \*****2, Chi2 calculated by Log rank test.

**Figure 3-source data 1B.** Cox proportional of *FBGS> UAS chinmoRNAi* strain.

|  |  |  |
| --- | --- | --- |
|  | **Risk factor** | **p value** |
| Experiment 1#  *FBGS/+; UAS chinmoRNAi/+* | Diet | 0.000207 |
| Ligand | 0.069844 |
| Experiment 2  *FBGS/+; UAS chinmoRNAi/+* | Diet | 0.000001 |
| Ligand | 0.154592 |