**Supplementary materials**

**Table S1.** Effect of sesamolin on the lifespan of mutants.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mutants** | **Mean lifespan(Day)** | **Median lifespan(Day)** | **Maximum lifespan(Day)** | ***P* value**# |
| SIR-2.1 mutants | Control | 13.3 ± 4.3 | 14 | 26 |  |
| SM | 13.4 ± 4.2 | 14 | 22 | 0.801 |
| AAK-2 mutants | Control | 12.6 ± 4.6 | 12 | 22 |  |
| SM | 12.3 ± 4.0 | 13 | 20 | 0.275 |
| AKT-1 mutants | Control | 15.5 ± 3.0 | 16 | 22 |  |
| SM | 16.8 ± 3.4 | 16 | 22 | 0.006\* |
| DAF-15mutants | Control | 13.5 ± 3.3 | 14 | 22 |  |
| SM | 15.5 ± 4.0 | 16 | 24 | 0.001\* |

# *P* values were obtained when compared to the control group by the Cox regression model. Values of the mean lifespan (n = 90 for each group) are expressed as mean ± SD.