**S11 Table. Statistical analysis of lifespan data for Fig 7 and S9 Fig**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Genotype** | **Lifespan (days)** | **% of****control *c*** | **n*d*****(censored)** | ***p**e*** |
| **median *a*** | **max *b*** |
| N2 *+* ALN2 *+* DR*unc-64 +* AL*unc-64 +* DR*unc-64;atg-18 +* AL*unc-64;atg-18 +* DR*unc-64;atg-18;Ex[Punc-119::atg-18] +* AL*unc-64;atg-18;Ex[Punc-119::atg-18] +* DR*unc-64;atg-18;Ex[Pges-1::atg-18] +* AL*unc-64;atg-18;Ex[Pges-1::atg-18] +* DR*unc-31 +* AL*unc-31 +* DR | 24,1827,2325,2330,2515,1815,1825,2430,2922,2128,2328,2028,27  | 34,2741,3337,3341,3422,23,22,2438,3651,3832,2934,3239,3243,33 | /113%, 128%/120%,109%/100%,100%/120%,121%/127%,110%/100%,135% |  118(3),78(11)100(30),95(11) 111(7),91(24) 117(8),102(8) 88(11),84(15) 95(9),104(10) 135(14),118(3) 135(3),92(16)125(16),93(13) 68(22),89(13) 130(2),69(28) 92(11),62(15) | / <0.0001,<0.0001/<0.0001,0.0006/0.075,0.6679/ <0.0001,<0.0001/0.0013,0.0012/ 0.0219, <0.0001 |
| *unc-31;atg-18+* AL*unc-31;atg-18+* DR*unc-31;atg-18;Ex[Punc-119::atg-18] +* AL*unc-31;atg-18;Ex[Punc-119::atg-18] +* DR*unc-31;atg-18;Ex[Pges-1::atg-18] +* AL*unc-31;atg-18;Ex[Pges-1::atg-18]*+ DR | 22,1824,1828, 1825,2523,2024,20 | 34,2534,2739,3046,3236,2733,29 | /109%,100%/89%,139%/104%,100% |  105(10),87(8) 87(8),88(7) 121(10),67(7) 113(13),65(8) 122(16),84(9)111(19),84(11) | / 0.3222,0.276/ 0.0387, <0.0001/0.2013,0.2416 |

*a* Median lifespan for each trial

*b* Maximum lifespan for each trial

*c* Percentage of changes in median lifespan (DR) relative to corresponding control (AL) for each trial

*d* Numbers of animals counted for each trial (censored: animals died of internal hatching or lost during the experiments)

*e* *p* values (log-rank test) compared to corresponding control (DR vs. AL)