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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cumulative statistics** | | | | | | | | | **Statistics of individuals expts.** | | | | |
| **Strains** | **Bacteria** | **Supplementation** | **No. of expts.** | **Median lifespan (days)**  **(treatment vs control)** | **Change in lifespan (%)** | **S.E.M.**  **(treatment vs control)** | **Control**  **No. of animals**  **(dead vs censored)** | **Treatment**  **No. of animals**  **(dead vs censored)** | **Median lifespan (days)**  **(treatment vs control)** | **Change in lifespan (%)** | ***p*-value** | **Control**  **No. of animals**  **(dead vs censored)** | **Treatment**  **No. of animals**  **(dead vs censored)** |
| N2 | OP50  UV-  killed | Glycine  500 µM  (treatment throughout entire  life) | 7 | 30/25 | +20.0 | 0.34/0.34 | 780  (570/210) | 780  (538/242) | 31/26 | +19.2 | <0.0001 | 120  (81/39) | 120  (73/47) |
| 31/25 | +24.0 | <0.0001 | 120  (97/23) | 120  (75/45) |
| 31/29 | +6.8 | <0.0001 | 120  (97/23) | 120  (101/19) |
| 31/28 | +10.7 | <0.0001 | 120  (89/31) | 120  (95/25) |
| 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (56/44) |
| 23/21 | +9.5 | <0.0001 | 100  (78/22) | 100  (72/28) |
| 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (66/34) |
| N2 | OP50  UV-  killed | Glycine  500 µM  (treatment from egg to larval stage 4) | 3 | 21/21 | 0 | 0.49/0.38 | 300  (206/94) | 300  (166/134) | 23/21 | +9.5 | 0.184 | 100  (64/36) | 100  (54/46) |
| 21/21 | 0 | 0.953 | 100  (78/22) | 100  (69/31) |
| 21/21 | 0 | 0.371 | 100  (64/36) | 100  (43/57) |
| N2 | OP50  UV-  killed | Glycine  500 µM  (treatment from day1 to day3 of adulthood) | 3 | 25/21 | +19.0 | 0.70/0.37 | 300  (206/94) | 300  (191/109) | 25/21 | +19.0 | 0.0008 | 100  (64/36) | 100  (64/36) |
| 23/21 | +9.5 | <0.0001 | 100  (78/22) | 100  (70/30) |
| 30/21 | +42.9 | <0.0001 | 100  (64/36) | 100  (57/43) |
| N2 | OP50  UV-  killed | Glycine  500 µM  (treatment throughout adulthood only) | 3 | 25/21 | +19.0 | 0.79/0.37 | 300  (206/94) | 300  (164/136) | 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (52/48) |
| 23/21 | +9.5 | <0.0001 | 100  (78/22) | 100  (56/44) |
| 28/21 | +33.3 | 0.0007 | 100  (64/36) | 100  (56/44) |
| N2 | OP50  UV-  killed | Glycine  5 µM | 2 | 28/26 | +7.7 | 0.72/0.42 | 240  (178/62) | 240  (158/82) | 28/26 | +7.7 | <0.0001 | 120  (81/39) | 120  (75/45) |
| 27/25 | +8.0 | 0.001 | 120  (97/23) | 120  (83/37) |
| N2 | OP50  UV-  killed | Glycine  50 µM | 2 | 31/26 | +19.2 | 0.48/0.42 | 240  (178/62) | 240  (164/76) | 31/26 | +19.2 | <0.0001 | 120  (81/39) | 120  (76/44) |
| 29/25 | +16.0 | <0.0001 | 120  (97/23) | 120  (88/32) |
| N2 | OP50  UV-  killed | Glycine  5 mM | 2 | 26/26 | 0 | 0.48/0.42 | 240  (178/62) | 240  (146/94) | 26/26 | 0 | 0.169 | 120  (81/39) | 120  (70/50) |
| 27/25 | +8.0 | 0.147 | 120  (97/23) | 120  (76/44) |
| N2 | OP50  UV-  killed | Glycine  10 mM | 2 | 24/26 | -7.7 | 0.54/0.42 | 240  (178/62) | 240  (174/66) | 24/26 | -7.7 | 0.283 | 120  (81/39) | 120  (92/28) |
| 25/25 | 0 | 0.852 | 120  (97/23) | 120  (82/38) |
| *metr-1*  *(ok521)* | OP50  UV-  killed | Glycine  500 µM | 2 | 21/21 | 0 | 0.23/0.21 | 300  (179/121) | 300  (149/151) | 21/21 | 0 | 0.899 | 120  (75/45) | 120  (59/61) |
| 21/21 | 0 | 0.665 | 180  (104/76) | 180  (90/90) |
| *sams-1*  *(ok3033)* | OP50  UV-  killed | Glycine  500 µM | 2 | 23/23 | 0 | 0.35/0.33 | 252  (166/86) | 235  (155/80) | 23/23 | 0 | 0.111 | 132  (87/45) | 120  (83/37) |
| 23/23 | 0 | 0.213 | 120  (79/41) | 115  (72/43) |
| N2 | OP50  UV-  killed | Serine  5 mM  (treatment throughout entire  life) | 5 | 28/22 | +27.3 | 0.49/0.37 | 564  (397/167) | 564  (396/168) | 29/24 | +20.8 | <0.0001 | 120  (73/47) | 120  (78/42) |
| 31/24 | +29.2 | <0.0001 | 144  (116/28) | 144  (94/50) |
| 25/21 | +19.0 | <0.0001 | 100  (64/36) | 100  (66/34) |
| 25/21 | +19.0 | <0.0001 | 100  (78/22) | 100  (75/25) |
| 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (67/33) |
| N2 | OP50  UV-  killed | Serine  5 mM  (treatment from egg to larval stage 4) | 3 | 21/21 | 0 | 0.59/0.37 | 300  (206/94) | 300  (165/135) | 23/21 | +9.5 | 0.3241 | 100  (64/36) | 100  (45/55) |
| 18/21 | -14.3 | 0.4698 | 100  (78/22) | 100  (68/32) |
| 19/21 | -9.5 | 0.6297 | 100  (64/3) | 100  (52/48) |
| N2 | OP50  UV-  killed | Serine  5 mM  (treatment from day1 to day3 of adulthood) | 3 | 25/21 | +19.0 | 0.85/0.37 | 300  (206/94) | 300  (189/111) | 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (60/40) |
| 21/21 | 0 | <0.01 | 100  (78/22) | 100  (68/32) |
| 30/21 | +42.9 | <0.0001 | 100  (64/36) | 100  (61/39) |
| N2 | OP50  UV-  killed | Serine  5 mM  (treatment throughout adulthood only) | 3 | 25/21 | +19.0 | 0.72/0.37 | 300  (206/94) | 300  (191/109) | 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (61/39) |
| 23/21 | +9.5 | <0.0001 | 100  (78/22) | 100  (61/39) |
| 28/21 | +33.3 | <0.0001 | 100  (64/36) | 100  (69/31) |
| *metr-1*  *(ok521)* | OP50  UV-  killed | Serine  5 mM | 2 | 19/17 | +11.8 | 0.55/0.45 | 264  (167/97) | 264  (186/78) | 21/21 | 0 | 0.103 | 120  (68/52) | 120  (71/49) |
| 19/17 | +11.8 | 0.202 | 144  (99/45) | 144  (115/29) |
| *sams-1*  *(ok3033)* | OP50  UV-  killed | Serine  5 mM | 2 | 22/24 | -8.3 | 0.91/0.64 | 264  (185/79) | 264  (150/114) | 20/20 | 0 | 0.146 | 120  (67/53) | 120  (63/57) |
| 24/24 | 0 | 0.347 | 144  (118/26) | 144  (87/57) |
| N2 | HT115  (*gcst-1*) | - | 3 | 19/19 | 0 | 0.72/0.63 | 432  (358/74) | 432  (364/68) | 18/18 | 0 | 0.368 | 144  (122/22) | 144  (113/31) |
| 19/19 | 0 | 0.459 | 144  (113/31) | 144  (129/15) |
| 20/18 | +11.1 | 0.553 | 144  (123/21) | 144  (122/22) |
| N2 | HT115  (*mel-32*) | - | 3 | 20/18 | +11.1 | 0.34/0.24 | 408  (315/93) | 408  (340/68) | 21/19 | +10.5 | <0.0001 | 120  (76/44) | 120  (92/28) |
| 18/18 | 0 | <0.001 | 144  (126/18) | 144  (127/17) |
| 20/18 | +11.1 | <0.0001 | 144  (113/31) | 144  (121/23) |