

Title: Identification of healthspan-promoting genes in *Caenorhabditis elegans* based on a human GWAS study

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ESM_9: Lifespan characteristics during RNAi treatment

treatment	n	mean lifespan (days)	SEM	days until deaths of population reached				
				25 %	50 %	75 %	90 %	100 %
EV	167	19.48	0.3	16.82	18.25	21.25	24.27	30
<i>daf-2</i>	161	35.09*	0.34	31.57*	35.3*	37.62*	39.3*	45
<i>daf-16</i>	158	12.88*	0.24	10.11*	12.18*	14.7*	16.73*	19
<i>acd-1</i>	160	19.62	0.3	16.83	18.31	21.69	24.38	29
<i>acd-3</i>	167	19.38	0.26	17.1	18.69	20.91	22.74	27
<i>acd-7</i>	167	21.66*	0.29	18.48*	20.69*	23.53*	26.79	30
<i>acd-8</i>	164	21.23*	0.31	18.06*	20.13*	23.64*	25.86	31
<i>acd-10</i>	165	20.13	0.28	16.9	19.08	22.33	24.72	30
<i>elo-3</i>	166	17.52*	0.25	15.93*	17.12*	18.69*	20.67*	26
<i>frm-8</i>	168	19.49	0.33	16.5	17.94	22.14	25.03	30
<i>ivd-1</i>	164	19.58	0.3	16.84	18.28	21.1	24.52	28
<i>nex-1</i>	168	19.94	0.29	16.9	18.78	22.25*	24.61	28
<i>nex-2</i>	170	18.85	0.29	16.45	17.61	20.19	23.53	30
<i>paxt-1</i>	151	19.29	0.34	16.48	17.67	21.42	24.77	30
<i>wwp-1</i>	163	14.47*	0.25	11.52	14.3	16.78	17.73	20
<i>yap-1</i>	170	15.52*	0.31	12.53*	15.25	17.43	19.39*	24

Differences compared to control were considered significant at $p < 0.05$ (*). p-value determination was realized with log-rank test and subsequent Bonferroni correction for the mean lifespan and Fisher's Exact Test for specific time points. No significances were analysed for the time point of 100% deaths.