

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

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ESM_6: Pathogen-stress survival characteristics during RNAi treatment

treatment	n	mean survival (days)	SEM	days until deaths of population reached				
				25 %	50 %	75 %	90 %	100 %
Pathogen exposure initiation: 3 rd day of adulthood								
EV	259	5.77	0.1	4.51	5.39	6.36	7.09	9
<i>acdh-1</i>	107	5.07	0.21	4.06*	4.94*	5.91	6.89	9
<i>acdh-3</i>	108	5.42	0.25	3.4	5.35	6.9*	8.04*	10
<i>acdh-7</i>	108	5.77	0.17	4.42	5.25	6.41	7.38	10
<i>acdh-8</i>	104	6.4*	0.17	5.13*	6.18*	6.94*	7.77	9
<i>acdh-10</i>	106	5.44	0.21	4.22	5.03	6.28	7.5	10
<i>elo-3</i>	110	6.2	0.13	4.85	5.66	6.56	7.42	9
<i>frm-8</i>	99	6.36*	0.14	5.13*	6*	6.85*	7.54	9
<i>ivd-1</i>	106	5.16	0.2	4.08*	4.97*	5.94	6.9	9
<i>nex-1</i>	109	6.47*	0.15	5.2*	5.85	6.84	8.11*	10
<i>nex-2</i>	91	5.71	0.2	4.42	5.48	6.51	7.32	9
<i>paxt-1</i>	107	5.48	0.18	4.45	5.39	6.13	6.78	9
<i>wwp-1</i>	112	4.36*	0.14	3.34*	4.22*	4.72*	5.18*	7
<i>yap-1</i>	98	4.64*	0.16	3.2*	4.27*	5.16	5.96	8
Pathogen exposure initiation: 7 th day of adulthood								
EV	230	4.63	0.13	2.67	4.44	5.44	6.45	10
<i>acdh-1</i>	100	4.72	0.22	2.2	4.71*	6*	6.88	9
<i>acdh-3</i>	101	5.6*	0.2	4.4*	5.56*	6.42*	6.96	10
<i>acdh-7</i>	105	5.32*	0.2	3.85	5.2*	6.31*	6.94	9
<i>acdh-8</i>	111	5.59*	0.15	4.35*	5.38*	6.08*	6.86	9
<i>acdh-10</i>	105	4.78	0.22	1.93	4.61	5.9	7.08	10
<i>elo-3</i>	105	5.54*	0.21	4.08	5.41*	6.46*	7.5*	10
<i>frm-8</i>	108	5.26*	0.19	3.33	5.21*	6.19*	6.96	10
<i>ivd-1</i>	106	5.31*	0.2	3.5	5.28*	6.25*	6.97	10
<i>nex-1</i>	106	5.78*	0.19	4.45*	5.54*	6.48*	7.26*	12
<i>nex-2</i>	101	5.46*	0.22	3.79	5.4*	6.4*	6.97	10
<i>paxt-1</i>	106	5.59*	0.2	4.13*	5.38*	6.42*	7.44*	10
<i>wwp-1</i>	59	3.41*	0.12	2.28*	2.9*	3.58*	4.02	5
<i>yap-1</i>	96	4.43	0.17	2.64	4.29	5.14*	5.73	10

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.