

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

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ESM_8: Supplementary figures S1, S2 & S3 (survival curves)

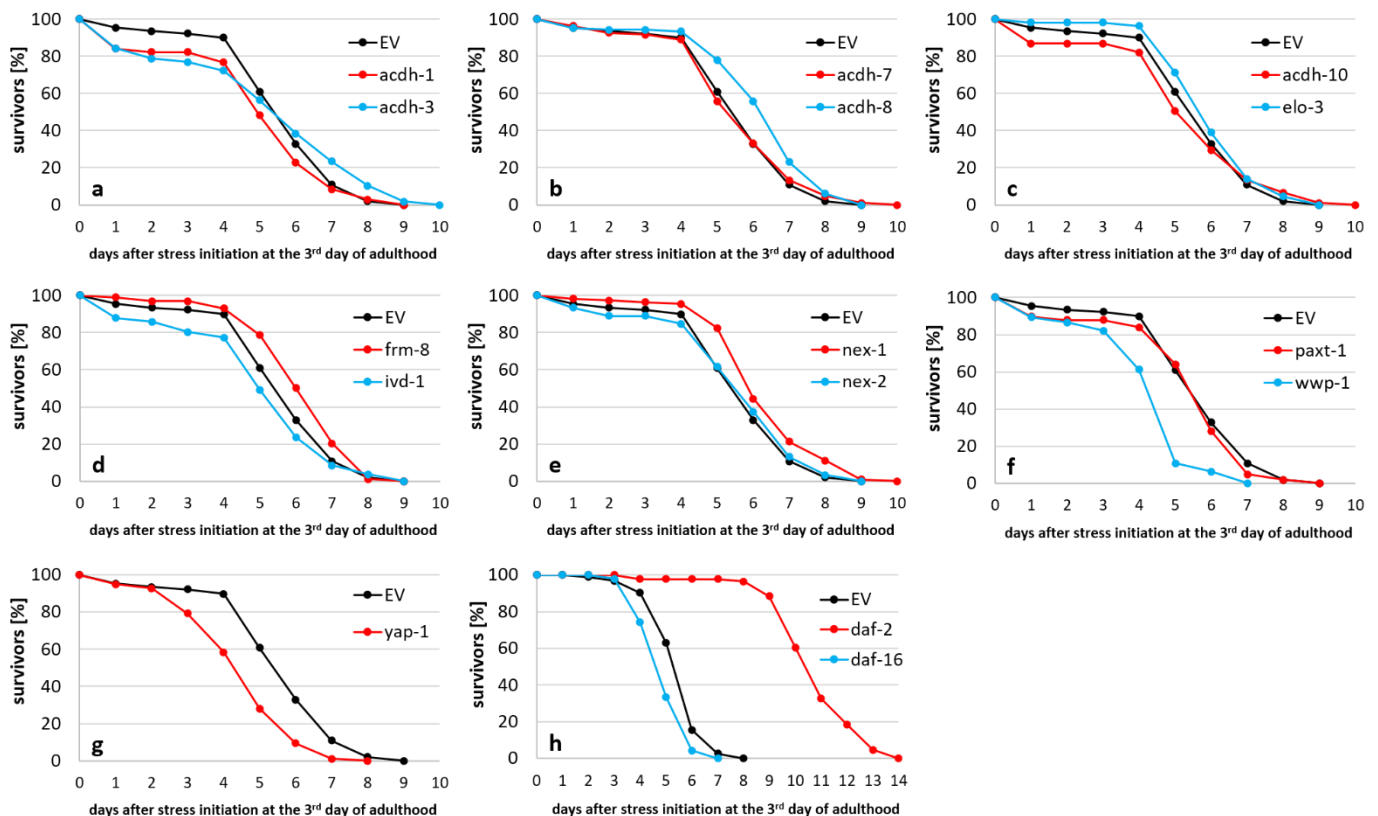


Figure S1: Survival during pathogenic stress starting at the 3rd day of adulthood

Nematodes at the L4 stage were treated with 13 different RNAi strains. The empty vector (EV) strain was used as control. Starting at the 3rd day of adulthood, they were exposed to the pathogen *P. luminescens* and their survival was monitored. Survival curves are shown for nematodes treated with RNAi targeting *acd-1* & *acd-3* (a), *acd-7* & *acd-8* (b), *acd-10* & *elo-3* (c), *frm-8* & *ivd-1* (d), *nex-1* & *nex-2* (e), *paxt-1* & *wwp-1* (f), *yap-1* (g), and *daf-2* & *daf-16* (h).

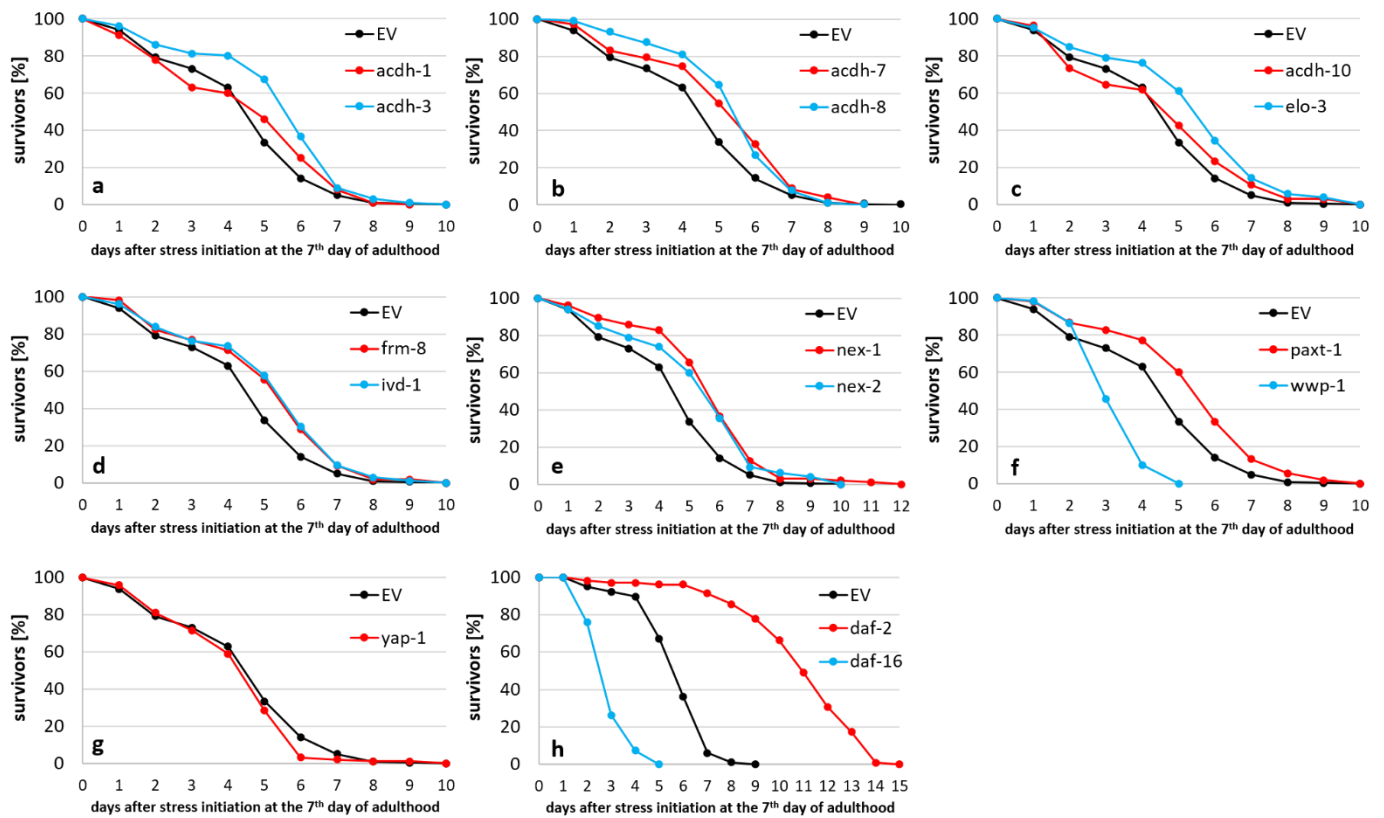


Figure S2: Survival during pathogenic stress starting at the 7th day of adulthood

Nematodes at the L4 stage were treated with 13 different RNAi strains. The empty vector (EV) strain was used as control. Starting at the 7th day of adulthood, they were exposed to the pathogen *P. luminescens* and their survival was monitored. Survival curves are shown for nematodes treated with RNAi targeting *acd-1* & *acd-3* (a), *acd-7* & *acd-8* (b), *acd-10* & *elo-3* (c), *frm-8* & *ivd-1* (d), *nex-1* & *nex-2* (e), *paxt-1* & *wwp-1* (f), *yap-1* (g), and *daf-2* & *daf-16* (h).

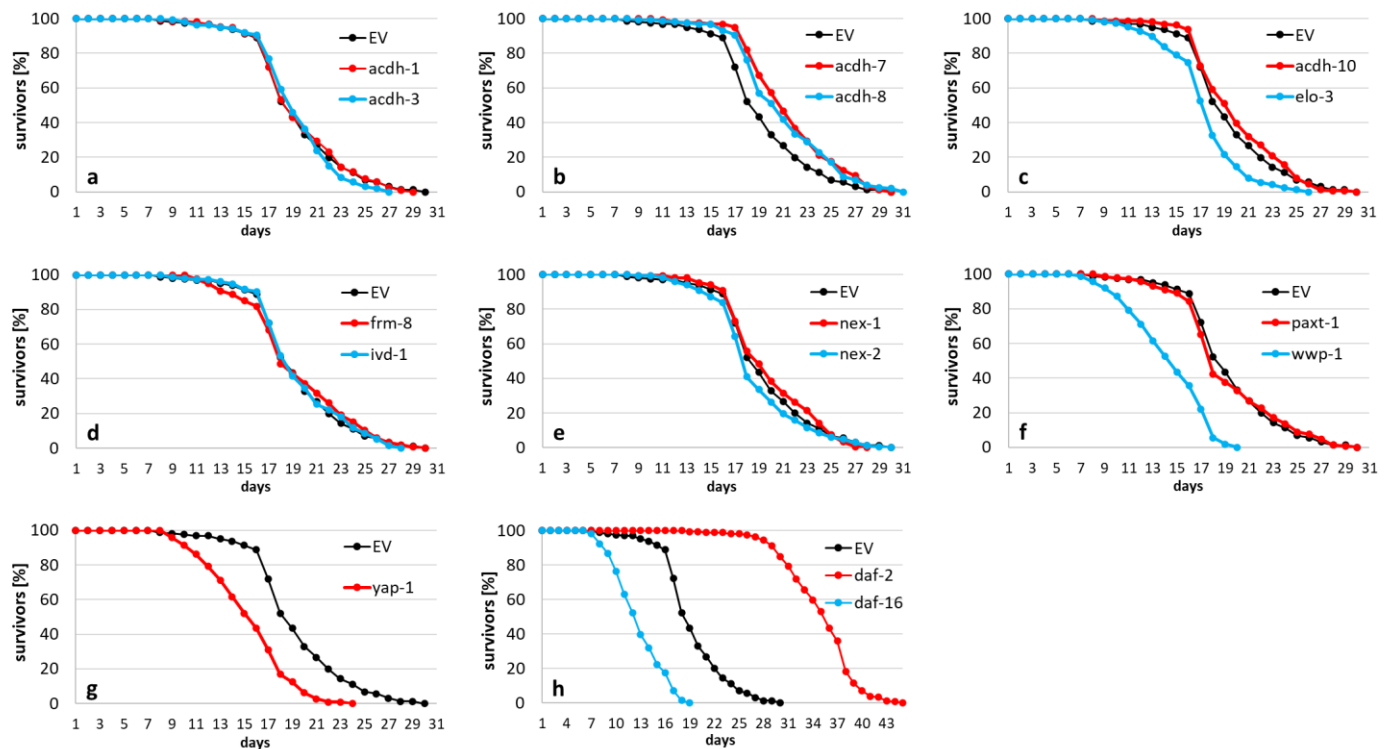


Figure S3: Lifespan of RNAi treated nematodes

Nematodes at the L4 stage were treated with 13 different RNAi strains. The empty vector (EV) strain was used as control. Their survival was monitored starting with the 1st day of adulthood. Survival curves are shown for nematodes treated with RNAi targeting *acd-1* & *acd-3* (a), *acd-7* & *acd-8* (b), *acd-10* & *elo-3* (c), *frm-8* & *ivd-1* (d), *nex-1* & *nex-2* (e), *paxt-1* & *wwp-1* (f), *yap-1* (g), and *daf-2* & *daf-16* (h).