

Table S1. Effects of the seed oils of from 18 edible *Trichosanthes* germplasm on oxidative stress tolerance in *C. elegans*

Groups	Mean lifespan (h) (Mean \pm SD)	Maximum lifespan (h) (Mean \pm SD)	Mean fold Change (%)
YNHH	22.18 \pm 0.73 ^A	52.00 \pm 0.00	37.76
HNXX	21.96 \pm 0.22 ^{AB}	52.00 \pm 0.00	36.40
HNZZ	21.68 \pm 0.74 ^{AB}	52.00 \pm 0.00	34.66
GXYL	21.59 \pm 0.58 ^{ABC}	48.00 \pm 0.00	34.10
JXJJ	21.55 \pm 0.36 ^{ABC}	52.00 \pm 0.00	33.85
AHAQ	21.47 \pm 0.75 ^{A-D}	48.00 \pm 0.00	33.35
JSXZ	21.20 \pm 0.38 ^{A-D}	48.00 \pm 0.00	31.68
Linseed oil	20.88 \pm 0.33 ^{B-E}	49.33 \pm 1.89	29.69
HNLY	20.87 \pm 0.58 ^{B-E}	48.00 \pm 0.00	29.63
SCNC	20.80 \pm 0.10 ^{B-E}	48.00 \pm 0.00	29.19
HBBD	20.42 \pm 0.19 ^{CDE}	44.00 \pm 0.00	26.83
SDJN	20.28 \pm 0.26 ^{DE}	48.00 \pm 0.00	25.96
ZJPH	19.83 \pm 0.30 ^{EF}	44.00 \pm 0.00	23.17
SXHZ	19.79 \pm 0.37 ^{FG}	44.00 \pm 0.00	22.92
GZGY	18.81 \pm 0.18 ^{FG}	44.00 \pm 0.00	16.83
HBSY	18.48 \pm 0.32 ^G	40.00 \pm 0.00	14.78
ZJCX	18.41 \pm 0.78 ^G	40.00 \pm 0.00	14.35
ZJQT	18.31 \pm 0.38 ^G	40.00 \pm 0.00	13.73
FJNP	18.09 \pm 0.63 ^G	40.00 \pm 0.00	12.36
Blank Control	16.10 \pm 0.41 ^H	36.00 \pm 0.00	/
DMSO	15.94 \pm 0.37 ^H	36.00 \pm 0.00	-0.99

The data were analyzed by one way-ANOVA analysis and different uppercases indicated significant difference at level of 0.01 by Least-Significant Difference Test (LSD).

Red: *T. laceribractea* Hayata; Blue: *T. rosthornii* Harms; Green: *T. kirilowii* Maxim.