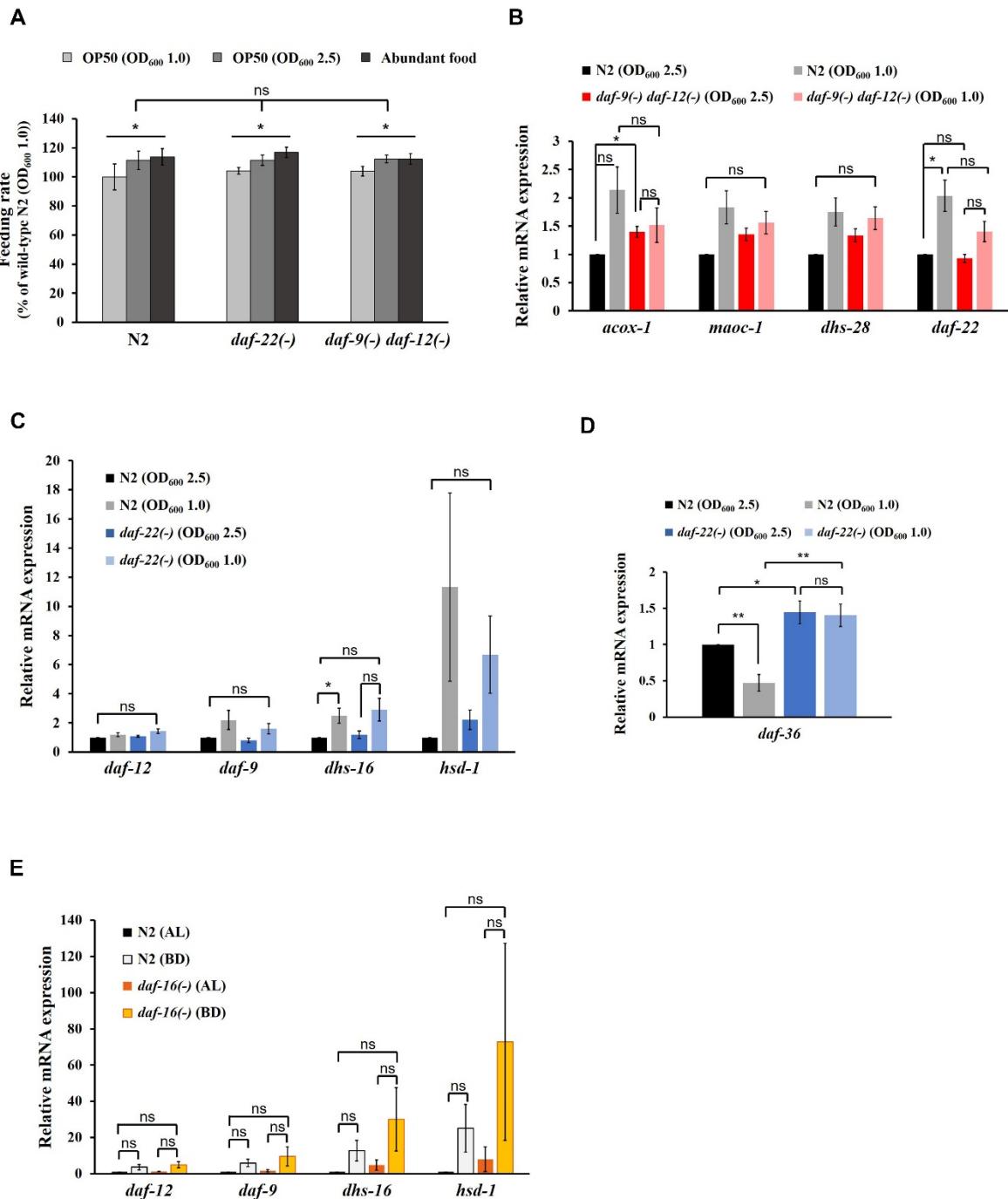


## Supplementary Materials



**Figure S1. Reciprocal regulation of ASCR and DA gene expression with different amounts of food.** (A) Food intake rates of N2, *daf-22(ok693)* and *daf-9(dh6) daf-12(rh61 rh411)* worms with different food levels OP50 (OD<sub>600</sub> 1.0), OP50 (OD<sub>600</sub> 2.5) and abundant food (OP50 fully

grown and saturated in 2xYT). Data are expressed as a percentage of N2 ( $OD_{600}$  1.0). Data are shown as mean  $\pm$  SEM of four independent experiments ( $n=10$ ). \*  $P = 0.0175$ , two-way ANOVA analysis. **(B)** ASCR biosynthetic gene expression in N2 and *daf-9(dh6)* *daf-12(rh61)* *rh411* worms that had been fed with high OP50 ( $OD_{600}$  2.5) or low OP50 ( $OD_{600}$  1.0) food levels. Data are shown as mean  $\pm$  SEM of three biologically independent experiments. \*  $P < 0.05$  and ns (not significant) were determined by one-way ANOVA analysis. The exact  $P$ -values are reported in Supplementary Table S4. **(C)** DA biosynthetic gene expression in N2 and *daf-22(ok693)* worms that had been fed with high OP50 ( $OD_{600}$  1.0) or low OP50 ( $OD_{600}$  1.0) food levels. **(D)** *daf-36* gene expression in N2 and *daf-22(ok693)* fed with high OP50 ( $OD_{600}$  1.0) or low OP50 ( $OD_{600}$  1.0) food levels. For **(C)** and **(D)**, data are shown as mean  $\pm$  SEM of four biologically independent experiments. \*  $P < 0.05$ , \*\*  $P < 0.01$  and ns (not significant) were determined by one-way ANOVA analysis. The exact  $P$ -values are reported in Supplementary Table S5. **(E)** DA biosynthetic gene expression in N2 and *daf-16(mu86)* L4 worms under AL and BD conditions. Data are shown as mean  $\pm$  SEM of three biologically independent experiments. \*  $P < 0.05$ , \*\*  $P < 0.01$  and ns (not significant) were determined by one-way ANOVA analysis. The exact  $P$ -values are reported in Supplementary Table S10.

**Table S1.** Nucleotide sequence of primers used in qRT-PCR

Target Gene	Primer Sequence
<i>act-1</i>	(Forward) GTATGGAGTCGCCCGGA (Reverse) CTTCATGGTTGATGGGGCAA
<i>acox-1</i>	(Forward) ACTCATGCGATGGCTGCACAG (Reverse) CGCTCGAATGAGCCACTTGGCT
<i>maoc-1</i>	(Forward) TGGGATCAGGAGATATGAATCC (Reverse) CCTCGTGCAAGTCAATAAAGG
<i>dhs-28</i>	(Forward) CTAGACTTACCGAGACTGTCATGC (Reverse) CAGAAGAACGACCAGAAGAACG
<i>daf-22</i>	(Forward) AAGTGGAAACTCCGATGTGG (Reverse) TCTTAGGGGCATTGATCACCC
<i>daf-12</i>	(Forward) GTTCGCATCGTTACAGAACGA (Reverse) TTCTCCTGGCAGCTCTTCG
<i>daf-9</i>	(Forward) GAACTGTTACCCATGGCTTCGT (Reverse) CACCTTGATGCCGGTTGACG
<i>daf-36</i>	(Forward) GAGCAGCATGGCCTGGAAT (Reverse) CATTGCTTCCACTGTCATGAAG
<i>dhs-16</i>	(Forward) TGCCGTTGAAGCCTATATGGAT (Reverse) GCTTCCAAGCACGCTCG
<i>hsd-1</i>	(Forward) AATCGTGTAGTGGATGTGCTG (Reverse) CCATGCAAGCTTACGGTCAC
<i>sod-3</i>	(Forward) AGCTGATGGACACTATTAAGCG (Reverse) CACAGGTGGCGATCTTCAAG

**Table S2.** The relative expression levels of ASCR biosynthetic genes in N2 and *daf-9(dh6) daf-12(rh61) rh411* under AL and BD conditions  
 (Related to Figure 1B)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)	Comparison		
	N2 (AL)	N2 (BD)	<i>daf-9(-)</i> <i>daf-12(-)</i> (AL)	<i>daf-9(-)</i> <i>daf-12(-)</i> (BD)		Group		
<i>acox-1</i>	1.00±0.00	1.70±0.25	1.15±0.20	0.94±0.16	0.039	N2 (AL)	N2 (BD)	0.030
						N2 (AL)	<i>daf-9(-) daf-12(-)</i> (AL)	0.464
						<i>daf-9(-) daf-12(-)</i> (AL)	<i>daf-9(-) daf-12(-)</i> (BD)	0.432
						N2 (BD)	<i>daf-9(-) daf-12(-)</i> (BD)	0.041
<i>maoc-1</i>	1.00±0.00	1.62±0.26	1.16±0.21	1.28±0.23	0.229	N2 (AL)	N2 (BD)	0.057
						N2 (AL)	<i>daf-9(-) daf-12(-)</i> (AL)	0.485
						<i>daf-9(-) daf-12(-)</i> (AL)	<i>daf-9(-) daf-12(-)</i> (BD)	0.713
						N2 (BD)	<i>daf-9(-) daf-12(-)</i> (BD)	0.367
<i>dhs-28</i>	1.00±0.00	1.63±0.19	1.15±0.16	1.08±0.15	0.042	N2 (AL)	N2 (BD)	0.018
						N2 (AL)	<i>daf-9(-) daf-12(-)</i> (AL)	0.386
						<i>daf-9(-) daf-12(-)</i> (AL)	<i>daf-9(-) daf-12(-)</i> (BD)	0.744
						N2 (BD)	<i>daf-9(-) daf-12(-)</i> (BD)	0.064
<i>daf-22</i>	1.00±0.00	1.82±0.24	1.27±0.18	1.15±0.10	0.017	N2 (AL)	N2 (BD)	0.015
						N2 (AL)	<i>daf-9(-) daf-12(-)</i> (AL)	0.176
						<i>daf-9(-) daf-12(-)</i> (AL)	<i>daf-9(-) daf-12(-)</i> (BD)	0.571
						N2 (BD)	<i>daf-9(-) daf-12(-)</i> (BD)	0.044

**Table S3.** The relative expression of DA biosynthetic genes in N2 and *daf-22(ok693)* under AL and BD conditions  
 (Related to Figure 1C, 1D)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (AL)	N2 (BD)	<i>daf-22(-)</i> (AL)	<i>daf-22(-)</i> (BD)	Group	Comparison		
<i>daf-12</i>	1.00±0.00	2.96±1.20	2.28±0.36	8.93±5.44	0.243	N2 (AL)	N2 (BD)	0.153
						N2 (AL)	<i>daf-22(-)</i> (AL)	0.012
						<i>daf-22(-)</i> (AL)	<i>daf-22(-)</i> (BD)	0.268
						N2 (BD)	<i>daf-22(-)</i> (BD)	0.325
<i>daf-9</i>	1.00±0.00	4.62±1.96	4.16±1.12	16.51±6.81	0.045	N2 (AL)	N2 (BD)	0.114
						N2 (AL)	<i>daf-22(-)</i> (AL)	0.030
						<i>daf-22(-)</i> (AL)	<i>daf-22(-)</i> (BD)	0.123
						N2 (BD)	<i>daf-22(-)</i> (BD)	0.144
<i>dhs-16</i>	1.00±0.00	9.86±5.00	11.06±4.08	47.61±24.14	0.090	N2 (AL)	N2 (BD)	0.127
						N2 (AL)	<i>daf-22(-)</i> (AL)	0.049
						<i>daf-22(-)</i> (AL)	<i>daf-22(-)</i> (BD)	0.186
						N2 (BD)	<i>daf-22(-)</i> (BD)	0.177
<i>hsd-1</i>	1.00±0.00	19.08±11.05	13.09±8.35	96.06±47.66	0.071	N2 (AL)	N2 (BD)	0.153
						N2 (AL)	<i>daf-22(-)</i> (AL)	0.198
						<i>daf-22(-)</i> (AL)	<i>daf-22(-)</i> (BD)	0.137
						N2 (BD)	<i>daf-22(-)</i> (BD)	0.167
<i>daf-36</i>	1.00±0.00	0.36±0.13	1.41±0.28	1.42±0.43	0.049	N2 (AL)	N2 (BD)	0.002
						N2 (AL)	<i>daf-22(-)</i> (AL)	0.190
						<i>daf-22(-)</i> (AL)	<i>daf-22(-)</i> (BD)	0.993
						N2 (BD)	<i>daf-22(-)</i> (BD)	0.057

**Table S4.** The relative expression levels of ASCR biosynthetic genes in N2 and *daf-9(dh6) daf-12(rh61) rh411*) under OD<sub>600</sub> 2.5 and OD<sub>600</sub> 1.0 growth conditions  
(Related to Figure S1B)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (OD 2.5)	N2 (OD 1.0)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)		Group	Comparison	
<i>acox-1</i>	1.00±0.00	2.14±0.47	1.40±0.11	1.52±0.35	0.136	N2 (OD 2.5)	N2 (OD 1.0)	0.073
						N2 (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	0.024
						<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.762
						N2 (OD 1.0)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.352
<i>maoc-1</i>	1.00±0.00	1.83±0.34	1.35±0.13	1.56±0.23	0.115	N2 (OD 2.5)	N2 (OD 1.0)	0.070
						N2 (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	0.052
						<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.465
						N2 (OD 1.0)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.542
<i>dhs-28</i>	1.00±0.00	1.75±0.29	1.34±0.13	1.64±0.24	0.101	N2 (OD 2.5)	N2 (OD 1.0)	0.060
						N2 (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	0.061
						<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.322
						N2 (OD 1.0)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.783
<i>daf-22</i>	1.00±0.00	2.04±0.32	0.93±0.08	1.40±0.21	0.013	N2 (OD 2.5)	N2 (OD 1.0)	0.031
						N2 (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	0.417
						<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 2.5)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.100
						N2 (OD 1.0)	<i>daf-9(-)</i> <i>daf-12(-)</i> (OD 1.0)	0.170

**Table S5.** The relative expression levels of DA biosynthetic genes in N2 and *daf-22(ok693)* under OD<sub>600</sub> 2.5 and OD<sub>600</sub> 1.0 growth conditions  
 (Related to Figure S1C, S1D)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (OD 2.5)	N2 (OD 1.0)	<i>daf-22(-)</i> (OD 2.5)	<i>daf-22(-)</i> (OD 1.0)	Group	Comparison		
<i>daf-12</i>	1.00±0.00	1.19±0.15	1.09±0.07	1.43±0.18	0.121	N2 (OD 2.5)	N2 (OD 1.0)	0.253
						N2 (OD 2.5)	<i>daf-22(-)</i> (OD 2.5)	0.258
						<i>daf-22(-)</i> (OD 2.5)	<i>daf-22(-)</i> (OD 1.0)	0.126
						N2 (OD 1.0)	<i>daf-22(-)</i> (OD 1.0)	0.324
<i>daf-9</i>	1.00±0.00	2.19±0.74	0.80±0.16	1.60±0.40	0.142	N2 (OD 2.5)	N2 (OD 1.0)	0.156
						N2 (OD 2.5)	<i>daf-22(-)</i> (OD 2.5)	0.260
						<i>daf-22(-)</i> (OD 2.5)	<i>daf-22(-)</i> (OD 1.0)	0.113
						N2 (OD 1.0)	<i>daf-22(-)</i> (OD 1.0)	0.503
<i>dhs-16</i>	1.00±0.00	2.49±0.57	1.19±0.30	2.90±0.88	0.072	N2 (OD 2.5)	N2 (OD 1.0)	0.040
						N2 (OD 2.5)	<i>daf-22(-)</i> (OD 2.5)	0.557
						<i>daf-22(-)</i> (OD 2.5)	<i>daf-22(-)</i> (OD 1.0)	0.113
						N2 (OD 1.0)	<i>daf-22(-)</i> (OD 1.0)	0.707
<i>hsd-1</i>	1.00±0.00	11.33±7.23	2.21±0.75	6.68±2.95	0.281	N2 (OD 2.5)	N2 (OD 1.0)	0.203
						N2 (OD 2.5)	<i>daf-22(-)</i> (OD 2.5)	0.158
						<i>daf-22(-)</i> (OD 2.5)	<i>daf-22(-)</i> (OD 1.0)	0.192
						N2 (OD 1.0)	<i>daf-22(-)</i> (OD 1.0)	0.574
<i>daf-36</i>	1.00±0.00	0.47±0.13	1.45±0.18	1.41±0.17	0.001	N2 (OD 2.5)	N2 (OD 1.0)	0.006
						N2 (OD 2.5)	<i>daf-22(-)</i> (OD 2.5)	0.046
						<i>daf-22(-)</i> (OD 2.5)	<i>daf-22(-)</i> (OD 1.0)	0.877
						N2 (OD 1.0)	<i>daf-22(-)</i> (OD 1.0)	0.005

**Table S6.** The relative expression levels of ASCR biosynthetic genes in N2 and *daf-2(e1370)* under AL and BD conditions  
 (Related to Figure 2A)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (AL)	N2 (BD)	<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	Group	Comparison		
<i>acox-1</i>	1.00±0.00	1.86±0.26	0.56±0.08	0.39±0.05	0.0003	N2 (AL)	N2 (BD)	0.031
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.005
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.137
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.005
<i>maoc-1</i>	1.00±0.00	1.78±0.29	1.15±0.10	1.11±0.20	0.064	N2 (AL)	N2 (BD)	0.055
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.210
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.857
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.132
<i>dhs-28</i>	1.00±0.00	1.76±0.21	1.04±0.11	0.88±0.09	0.004	N2 (AL)	N2 (BD)	0.023
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.756
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.320
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.018
<i>daf-22</i>	1.00±0.00	1.89±0.33	0.99±0.64	1.15±0.32	0.035	N2 (AL)	N2 (BD)	0.055
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.929
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.493
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.127

**Table S7.** The relative expression levels of DA biosynthetic genes in N2 and *daf-2(e1370)* under AL and BD conditions  
 (Related to Figure 2B, 2C)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (AL)	N2 (BD)	<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	Group	Comparison		
<i>daf-12</i>	1.00±0.00	3.63±1.41	2.20±0.62	6.34±2.72	0.170	N2 (AL)	N2 (BD)	0.137
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.123
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.212
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.426
<i>daf-9</i>	1.00±0.00	5.91±2.08	1.59±0.50	7.34±4.93	0.316	N2 (AL)	N2 (BD)	0.078
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.377
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.304
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.803
<i>dhs-16</i>	1.00±0.00	12.81±5.71	4.32±1.83	20.88±15.67	0.392	N2 (AL)	N2 (BD)	0.107
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.143
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.353
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.654
<i>hsd-1</i>	1.00±0.00	25.05±13.15	4.50±2.20	29.74±19.61	0.292	N2 (AL)	N2 (BD)	0.142
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.188
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.270
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.852
<i>daf-36</i>	1.00±0.00	0.45±0.13	0.77±0.06	0.43±0.26	0.076	N2 (AL)	N2 (BD)	0.013
						N2 (AL)	<i>daf-2(-)</i> (AL)	0.022
						<i>daf-2(-)</i> (AL)	<i>daf-2(-)</i> (BD)	0.272
						N2 (BD)	<i>daf-2(-)</i> (BD)	0.933

**Table S8.** The relative expression levels of DA biosynthetic genes in N2, *daf-22(ok693)*, *daf-2(e1370)*, and *daf-22(ok693);daf-2(e1370)* under AL conditions  
(Related to Figure 2D)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)	Comparison		
	N2 (AL)	<i>daf-22(-)</i> (AL)	<i>daf-2(-)</i> (AL)	<i>daf-22(-); daf-2(-)</i> (AL)		Group		
<i>sod-3</i>	1.00±0.00	3.63±1.41	2.20±0.62	6.34±2.72	0.0008	N2	<i>daf-22(-)</i>	0.003
						N2	<i>daf-2(-)</i>	0.006
						<i>daf-2(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.615
						<i>daf-22(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.010
<i>daf-12</i>	1.00±0.00	3.63±1.41	2.20±0.62	6.34±2.72	0.029	N2	<i>daf-22(-)</i>	0.047
						N2	<i>daf-2(-)</i>	0.742
						<i>daf-2(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.844
						<i>daf-22(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.076
<i>daf-9</i>	1.00±0.00	5.91±2.08	1.59±0.50	7.34±4.93	0.017	N2	<i>daf-22(-)</i>	0.031
						N2	<i>daf-2(-)</i>	0.616
						<i>daf-2(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.740
						<i>daf-22(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.037
<i>daf-36</i>	1.00±0.00	12.81±5.71	4.32±1.83	20.88±15.67	0.00005	N2	<i>daf-22(-)</i>	0.00005
						N2	<i>daf-2(-)</i>	0.999
						<i>daf-2(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.005
						<i>daf-22(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.261
<i>dhs-16</i>	1.00±0.00	25.05±13.15	4.50±2.20	29.74±19.61	0.0004	N2	<i>daf-22(-)</i>	0.003
						N2	<i>daf-2(-)</i>	0.753
						<i>daf-2(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.921
						<i>daf-22(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.004
<i>hsd-1</i>	1.00±0.00	0.45±0.13	0.77±0.06	0.43±0.26	0.044	N2	<i>daf-22(-)</i>	0.023
						N2	<i>daf-2(-)</i>	0.411
						<i>daf-2(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.368
						<i>daf-22(-)</i>	<i>daf-22(-); daf-2(-)</i>	0.022

**Table S9.** The relative expression levels of ASCR biosynthetic genes in N2 and *daf-16(mu86)* under AL and BD conditions  
(Related to Figure 2E)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (AL)	N2 (BD)	<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	Group	Comparison		
<i>acox-1</i>	1.00±0.00	1.86±0.26	1.24±0.25	2.09±0.30	0.034	N2 (AL)	N2 (BD)	0.031
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.388
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.092
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.594
<i>maoc-1</i>	1.00±0.00	1.78±0.29	1.19±0.11	2.31±1.57	0.003	N2 (AL)	N2 (BD)	0.055
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.166
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.005
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.193
<i>dhs-28</i>	1.00±0.00	1.76±0.21	1.09±0.17	1.85±0.21	0.014	N2 (AL)	N2 (BD)	0.023
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.633
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.045
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.761
<i>daf-22</i>	1.00±0.00	1.89±0.33	1.48±0.15	1.76±0.15	0.051	N2 (AL)	N2 (BD)	0.055
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.031
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.252
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.746

**Table S10.** The relative expression levels of DA biosynthetic genes in N2 and *daf-16(mu86)* under AL and BD conditions  
 (Related to Figure S1E, 2F)

Gene	Relative mRNA expression (fold ± SEM)				P-value (analyzed by One-way ANOVA)			
	N2 (AL)	N2 (BD)	<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	Group	Comparison		
<i>daf-12</i>	1.00±0.00	3.63±1.41	1.18±0.13	4.91±1.64	0.09	N2 (AL)	N2 (BD)	0.137
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.249
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.086
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.585
<i>daf-9</i>	1.00±0.00	5.91±2.08	1.61±0.76	9.57±5.29	0.200	N2 (AL)	N2 (BD)	0.078
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.465
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.211
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.555
<i>dhs-16</i>	1.00±0.00	12.81±5.71	4.79±2.78	30.04±17.46	0.204	N2 (AL)	N2 (BD)	0.107
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.245
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.226
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.401
<i>hsd-1</i>	1.00±0.00	25.05±13.15	8.00±6.84	72.92±54.40	0.334	N2 (AL)	N2 (BD)	0.142
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.364
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.302
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.441
<i>daf-36</i>	1.00±0.00	0.45±0.13	1.37±0.11	0.65±0.23	0.008	N2 (AL)	N2 (BD)	0.013
						N2 (AL)	<i>daf-16(-)</i> (AL)	0.031
						<i>daf-16(-)</i> (AL)	<i>daf-16(-)</i> (BD)	0.048
						N2 (BD)	<i>daf-16(-)</i> (BD)	0.490