Supplemental figure legends:

Figure S1: Germline enrichment of START domain members as assessed by qRT-PCR. Temperature sensitive *glp-1(bn18)* mutants were raised at either a permissive (15°C) or non-permissive temperature (25°C). At 25°C, the gonadal arms contain very few germline nuclei. The data is represented here as the fold change of levels at 15°C/25°C each first normalized to *gpdh-2* levels. qRT-PCR revealed a strong enrichment in the expression of 4 cholesterol transporters including *strl-1*. ***P<0.001; *P<0.05. N=3 independent experiments, each performed in duplicates.

Figure S2: Relative change in expression level of seven START domain members following BPA exposure. Wild type worms were exposed to either control (ethanol), BPA (500 µM) or cholesterol (5 µg/mL) +BPA. The expression levels were normalized over *spo-11* levels to account for differences in overall germline size. ***P<0.001; **P<0.01. N=3 independent experiments, each performed in duplicates.

Figure S3: A combination of dafachronic acids Δ4 and Δ7 DA is not sufficient to rescue BPA's fertility defects. Worms were exposed to either control or BPA (500 µM) alone or in combination with either cholesterol at 0.5 µg/mL or a combination of Δ4 and Δ7 DA at 0.25 µg/mL each. While cholesterol supplementation rescued all fertility endpoints affected by BPA, dafachronic supplementation was not sufficient to alleviate the effects of absence of cholesterol or of BPA exposure. ***P<0.001; *P<0.05. N=4-8 experimental repeats depending on exposure groups.

Figure S1

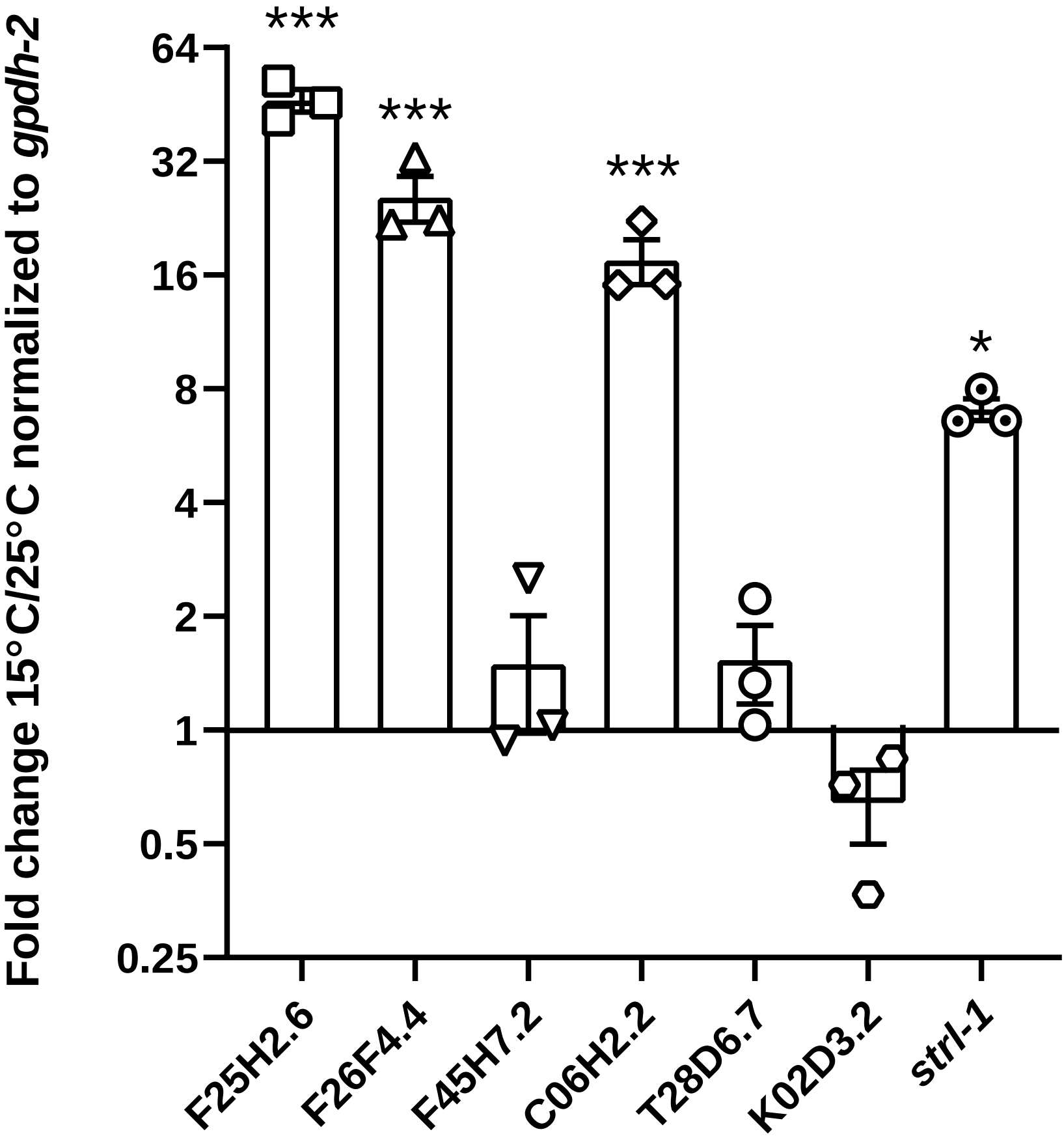

Fold change 15°C/25°C normalized to gpdh-2
64
32
16
8
4
2
1
0.5
0.25
***
***
***
*
F25H2.6
F26F4.4
F45H7.2
C06H2.2
T28D6.7
K02D3.2
strl-1

Figure S2

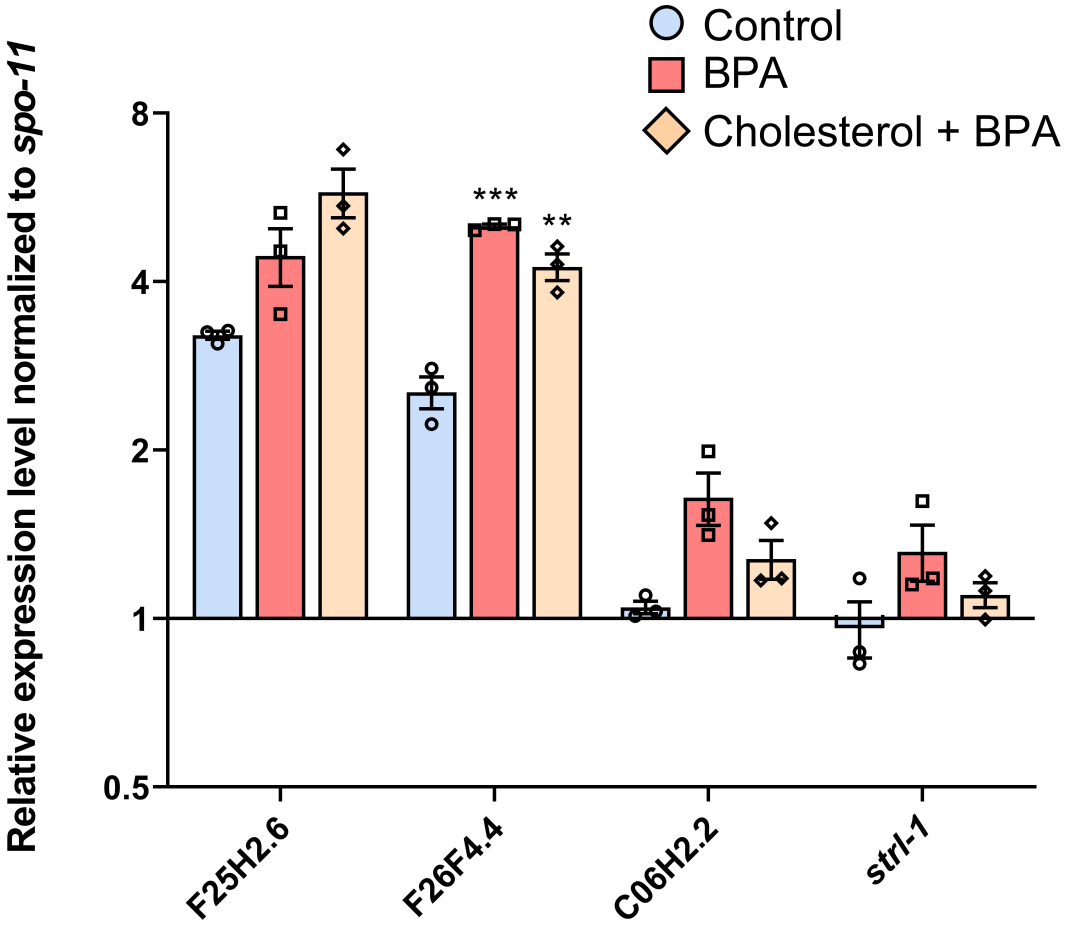
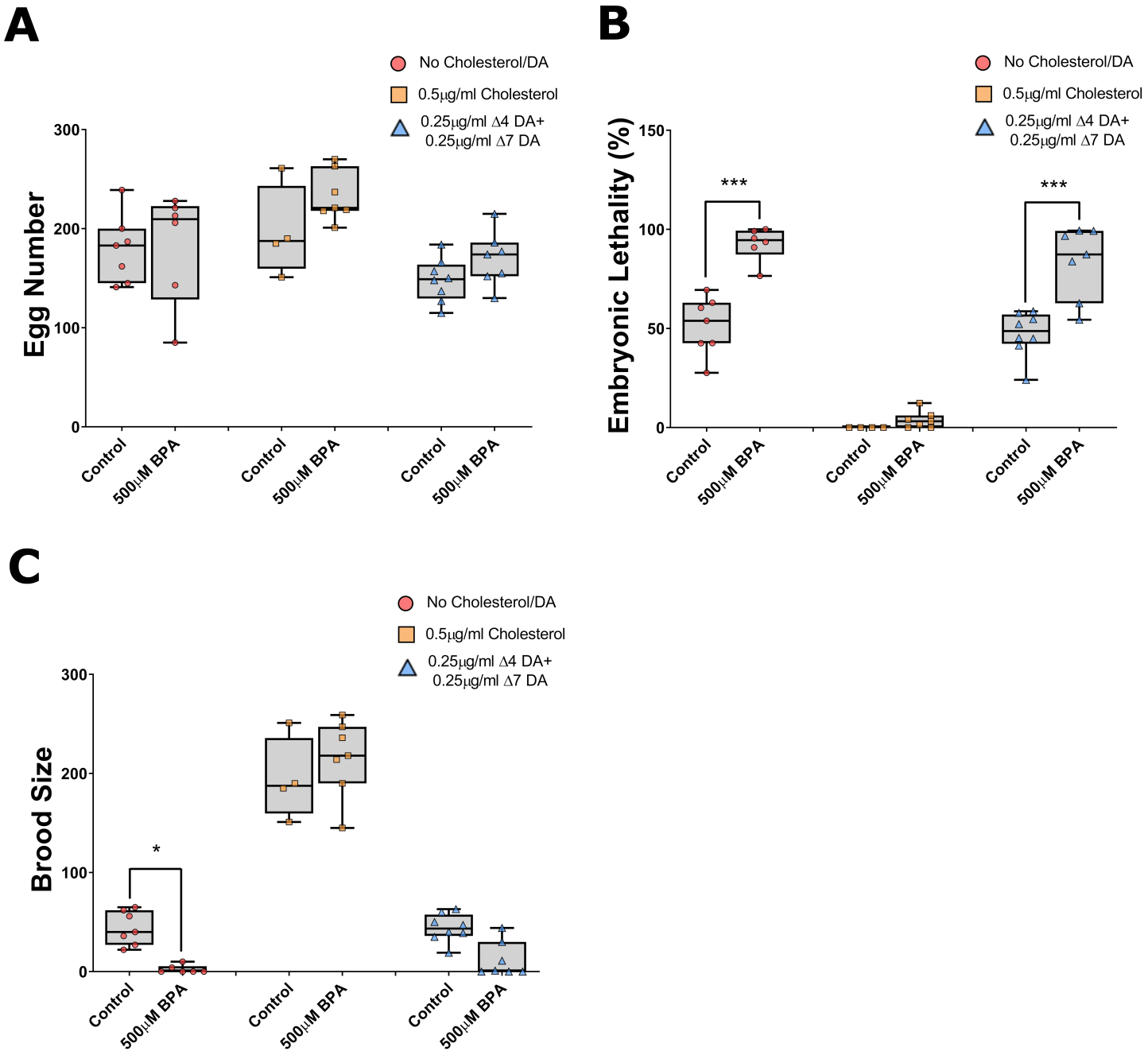

Control
BPA
Cholesterol + BPA
Relative expression level normalized to spo-11
8
4
2
1
0.5
***
**
F25H2.6
F26F4.4
C06H2.2
strl-1

Figure S3


A
No Cholesterol/DA
0.5µg/ml Cholesterol
0.25µg/ml Δ4 DA+
0.25µg/ml Δ7 DA
Egg Number
300
200
100
0
Control
500µM BPA
Control
500µM BPA
Control
500µM BPA
B
No Cholesterol/DA
0.5µg/ml Cholesterol
0.25µg/ml Δ4 DA+
0.25µg/ml Δ7 DA
Embryonic Lethality (%)
150
100
50
0
***
***
Control
500µM BPA
Control
500µM BPA
Control
500µM BPA
C
No Cholesterol/DA
0.5µg/ml Cholesterol
0.25µg/ml Δ4 DA+
0.25µg/ml Δ7 DA
Brood Size
300
200
100
0
*
Control
500µM BPA
Control
500µM BPA
Control
500µM BPA