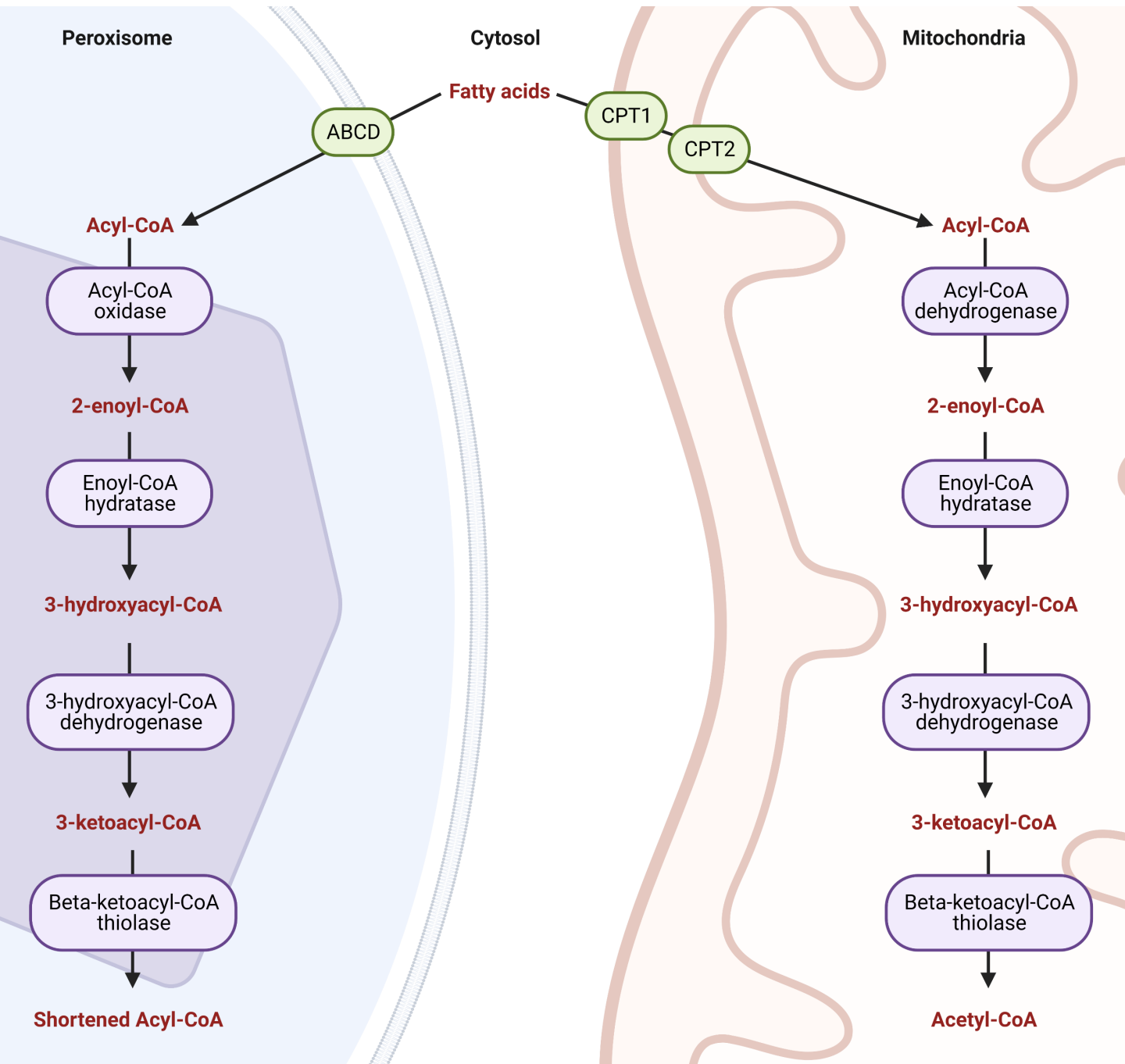
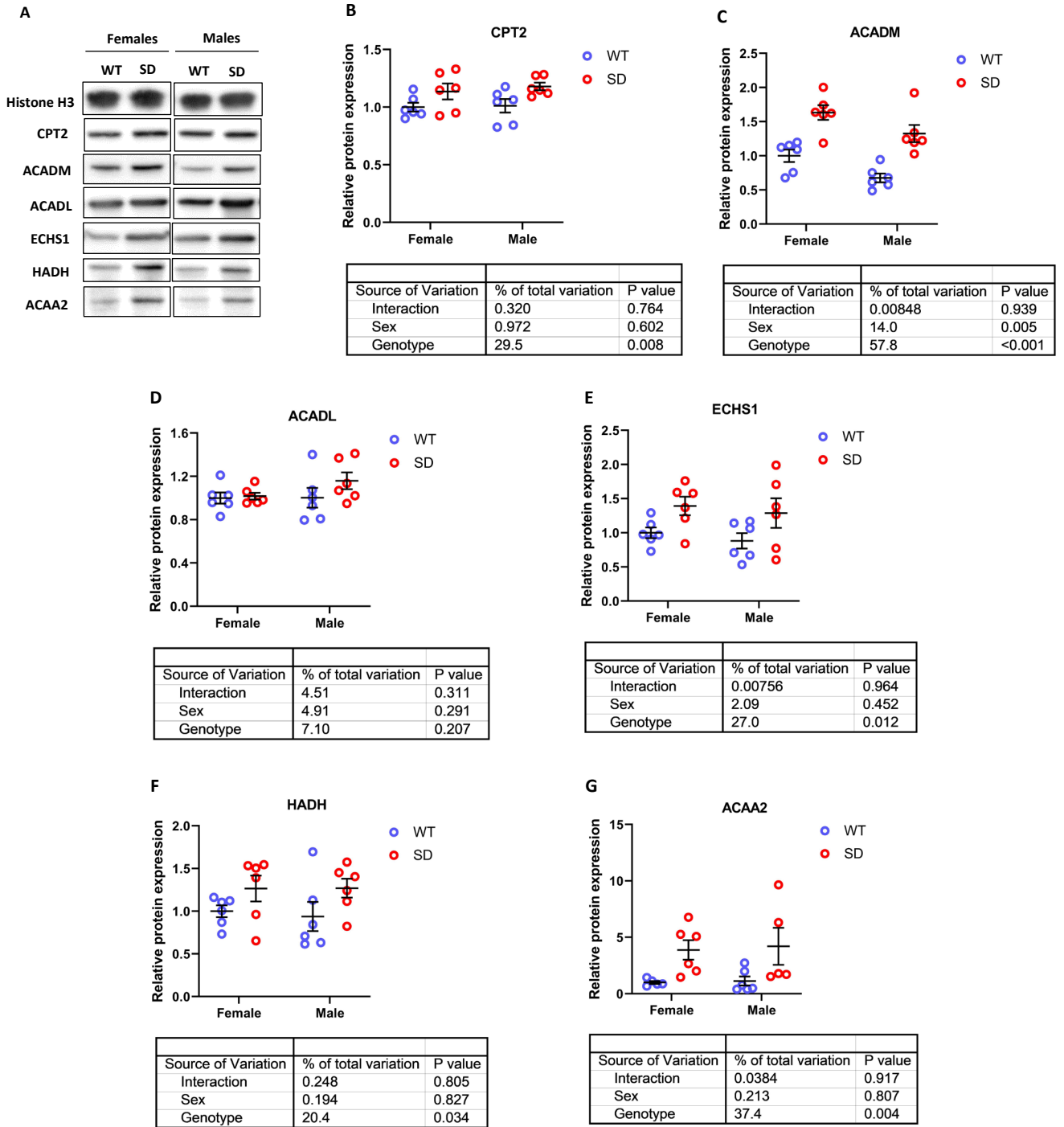


Supplementary Figure. 1

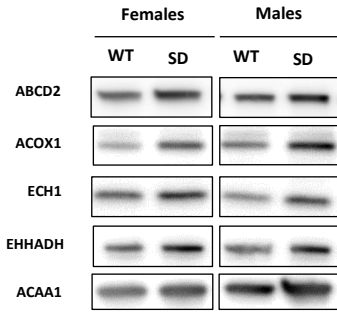


Supplementary Figure. 2

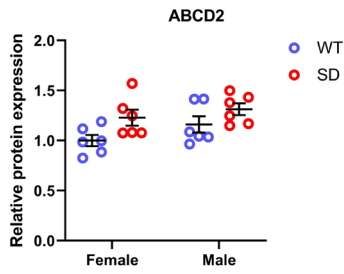


Supplementary Figure. 3

A

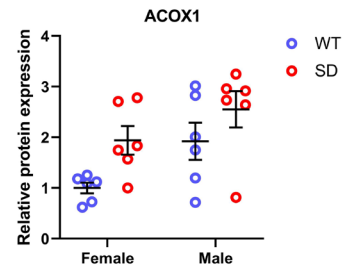


B



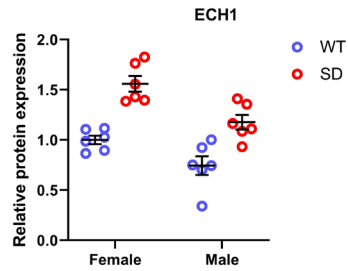
Source of Variation	% of total variation	P value
Interaction	0.973	0.591
Sex	9.86	0.097
Genotype	24.0	0.013

C



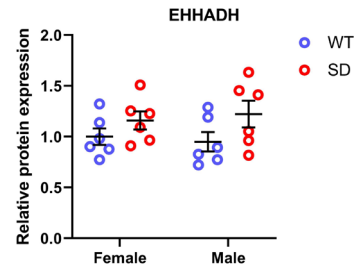
Source of Variation	% of total variation	P value
Interaction	0.793	0.609
Sex	19.6	0.018
Genotype	20.7	0.015

D



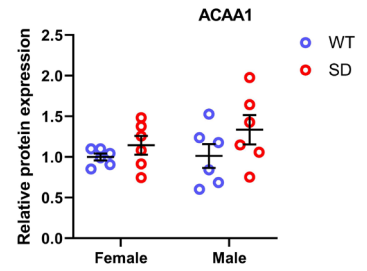
Source of Variation	% of total variation	P value
Interaction	0.871	0.404
Sex	22.0	<0.001
Genotype	53.2	<0.001

E



Source of Variation	% of total variation	P value
Interaction	1.24	0.585
Sex	0.0139	0.954
Genotype	18.3	0.046

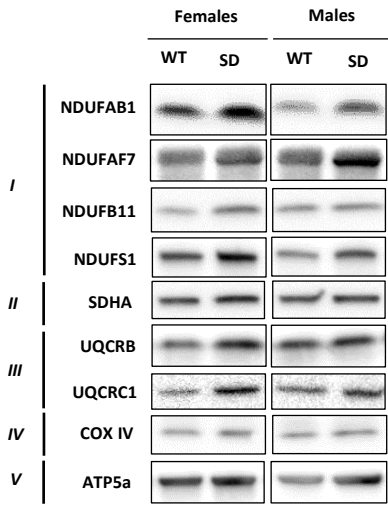
F



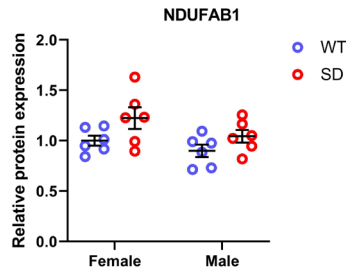
Source of Variation	% of total variation	P value
Interaction	1.92	0.503
Sex	2.51	0.445
Genotype	13.1	0.090

Supplementary Figure. 4

A

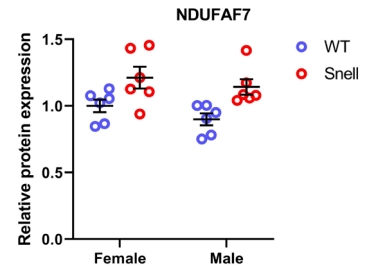


B



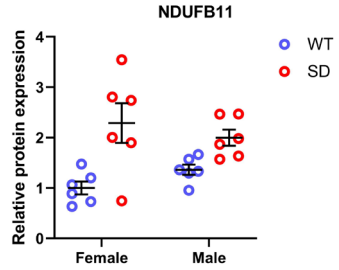
Source of Variation	% of total variation	P value
Interaction	0.938	0.601
Sex	12.1	0.071
Genotype	20.7	0.021

C



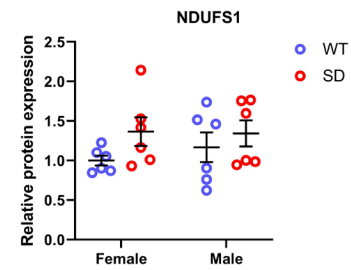
Source of Variation	% of total variation	P value
Interaction	0.181	0.800
Sex	5.53	0.170
Genotype	39.7	0.001

D



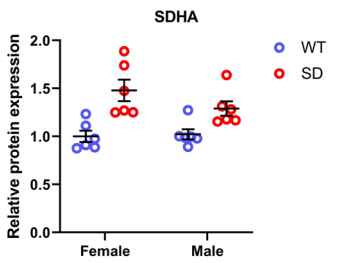
Source of Variation	% of total variation	P value
Interaction	5.17	0.166
Sex	0.0614	0.877
Genotype	44.7	<0.001

E



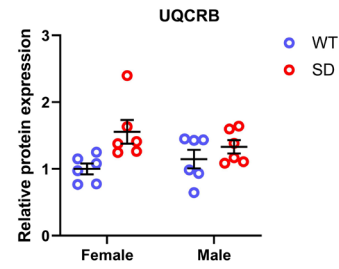
Source of Variation	% of total variation	P value
Interaction	1.56	0.552
Sex	0.897	0.651
Genotype	12.5	0.101

F



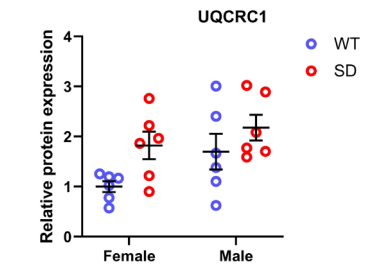
Source of Variation	% of total variation	P value
Interaction	3.97	0.193
Sex	2.50	0.298
Genotype	49.7	<0.001

G



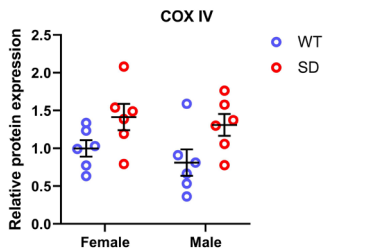
Source of Variation	% of total variation	P value
Interaction	6.75	0.169
Sex	0.291	0.770
Genotype	26.7	0.010

H



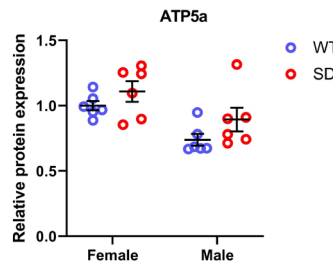
Source of Variation	% of total variation	P value
Interaction	1.38	0.525
Sex	13.0	0.060
Genotype	19.9	0.023

I



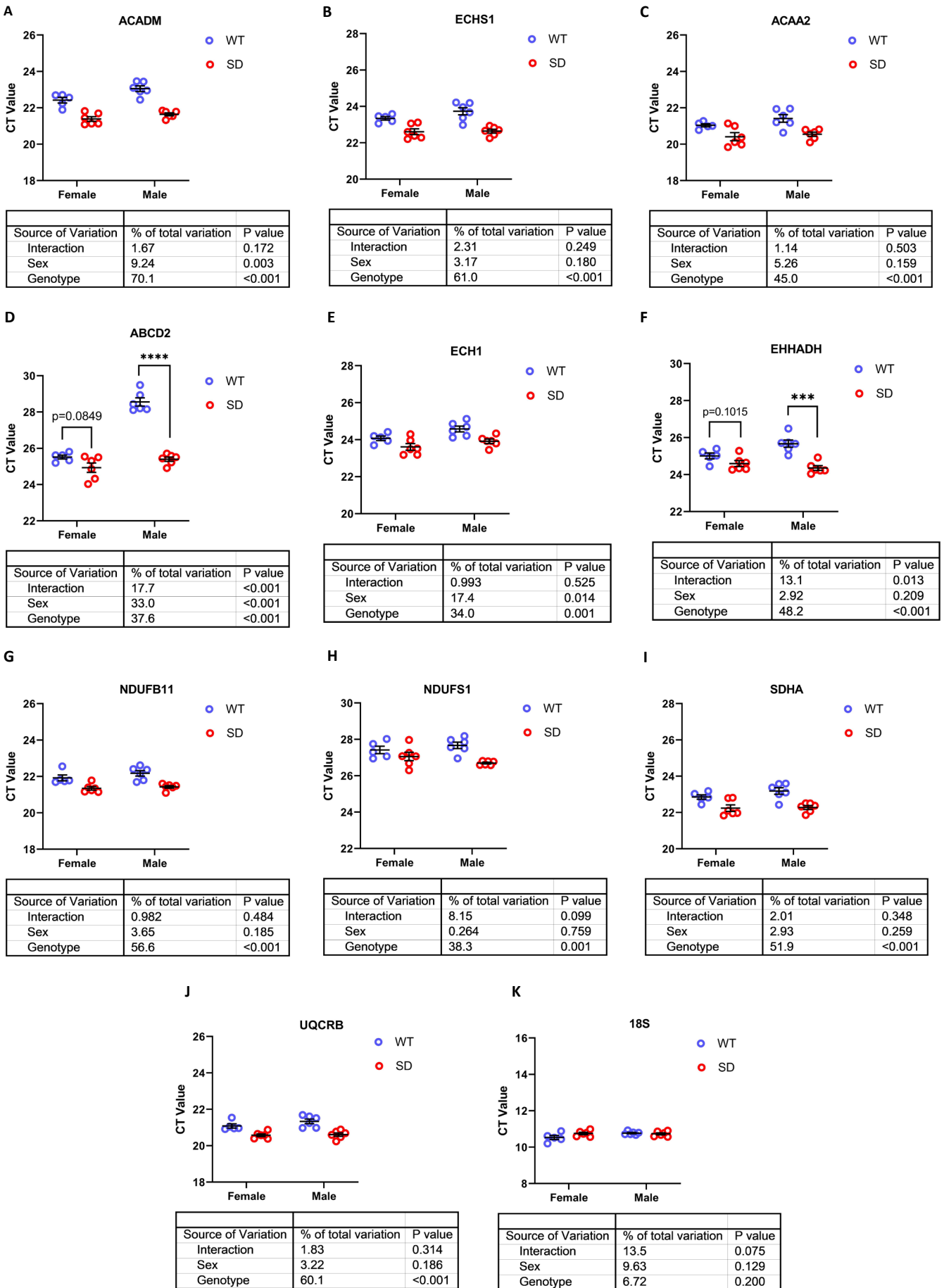
Source of Variation	% of total variation	P value
Interaction	0.247	0.789
Sex	3.07	0.350
Genotype	29.8	0.007

J



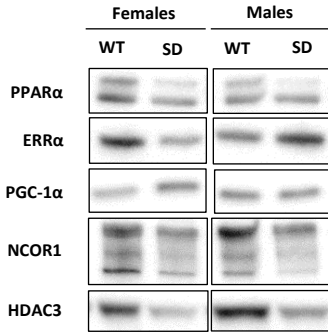
Source of Variation	% of total variation	P value
Interaction	0.326	0.733
Sex	34.6	0.002
Genotype	10.7	0.062

Supplementary Figure. 5

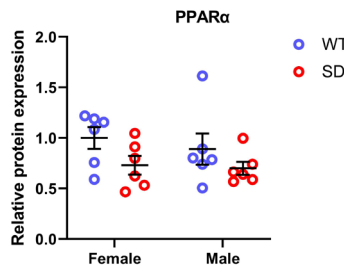


Supplementary Figure. 6

A

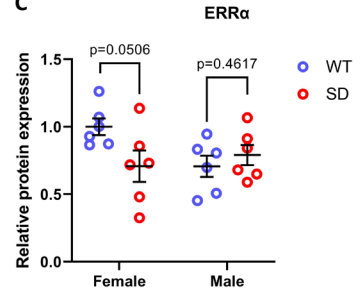


B



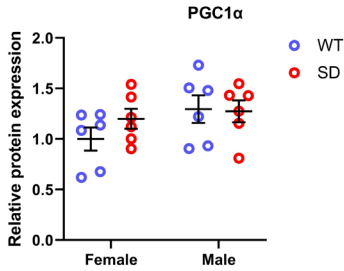
Source of Variation	% of total variation	P value
Interaction	0.535	0.719
Sex	1.63	0.531
Genotype	17.7	0.048

C



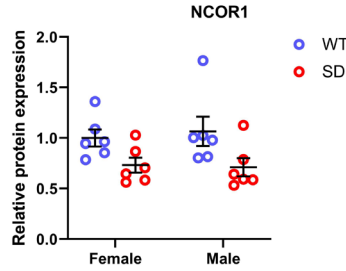
Source of Variation	% of total variation	P value
Interaction	17.4	0.040
Sex	5.51	0.230
Genotype	5.39	0.235

D



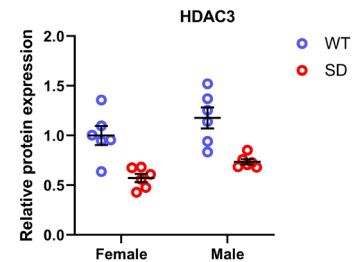
Source of Variation	% of total variation	P value
Interaction	3.82	0.349
Sex	10.7	0.123
Genotype	2.49	0.448

E



Source of Variation	% of total variation	P value
Interaction	0.613	0.675
Sex	0.167	0.826
Genotype	31.5	0.006

F



Source of Variation	% of total variation	P value
Interaction	0.0145	0.928
Sex	8.71	0.036
Genotype	56.9	<0.001