

Table S1. Markers of oxidative damage (4-HNE and protein carbonyls) and antioxidants (CuZnSOD, MnSOD, catalase, GPX-1) in liver, skeletal muscle, heart, and brain. Data were obtained by western blotting and are presented as mean \pm standard error. The units for all variables are fold change relative to the no wheel group. n = 10 for each group. No significant differences were detected between groups ($P > 0.05$).

	4-HNE	Prot. carb	Catalase	GPX-1	CuZnSOD	MnSOD
Liver:						
no wheel	1.00 \pm 0.05	1.00 \pm 0.11	1.00 \pm 0.12	1.00 \pm 0.10	1.00 \pm 0.19	1.00 \pm 0.06
wheel	1.03 \pm 0.08	0.91 \pm 0.08	1.21 \pm 0.18	0.94 \pm 0.10	0.79 \pm 0.17	0.99 \pm 0.11
Skeletal muscle:						
no wheel	1.00 \pm 0.08	1.00 \pm 0.07	1.00 \pm 0.20	1.00 \pm 0.19	1.00 \pm 0.18	1.00 \pm 0.18
wheel	1.03 \pm 0.07	1.03 \pm 0.06	1.03 \pm 0.16	1.10 \pm 0.21	1.12 \pm 0.20	1.12 \pm 0.20
Heart:						
no wheel	1.00 \pm 0.17	1.00 \pm 0.24	1.00 \pm 0.17	1.00 \pm 0.57	1.00 \pm 0.23	1.00 \pm 0.13
wheel	0.96 \pm 0.19	1.04 \pm 0.08	0.74 \pm 0.11	0.894 \pm 0.11	1.06 \pm 0.22	1.03 \pm 0.12
Brain:						
no wheel	1.00 \pm 0.13	1.00 \pm 0.10	1.00 \pm 0.19	1.00 \pm 0.27	1.00 \pm 0.12	1.00 \pm 0.20
wheel	1.00 \pm 0.12	1.11 \pm 0.13	0.95 \pm 0.16	1.03 \pm 0.27	1.19 \pm 0.14	0.79 \pm 0.21

Figure 1

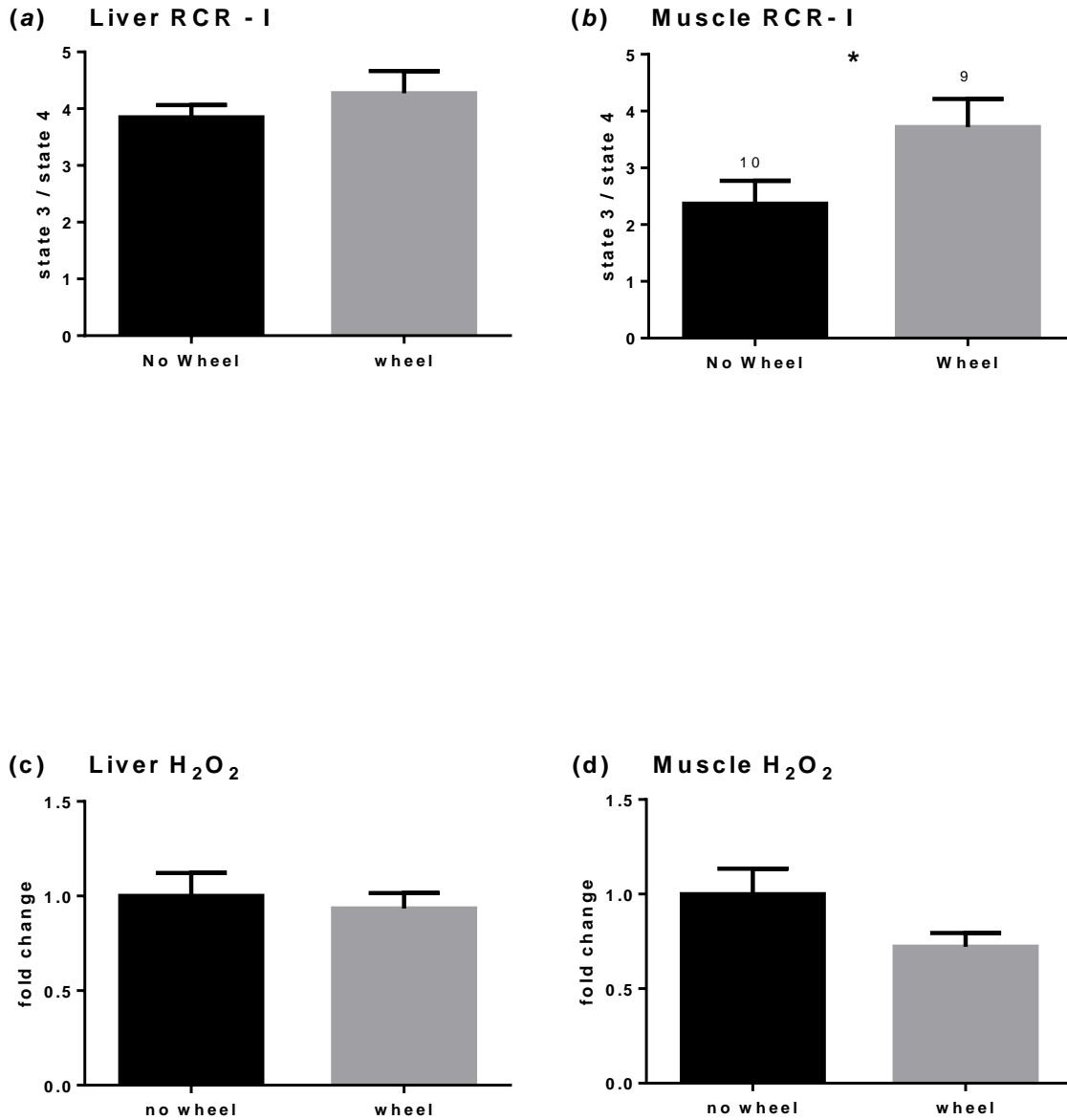


Fig. S1. Respiratory control ratio (RCR) and hydrogen peroxide (H₂O₂) emission by isolated mitochondria. Data from mitochondria isolated from (a and c) liver and (b and d) skeletal muscle. Data are presented as mean ± standard error. n = 10 for each group unless labeled above bars. * indicates P < 0.05

Figure 2

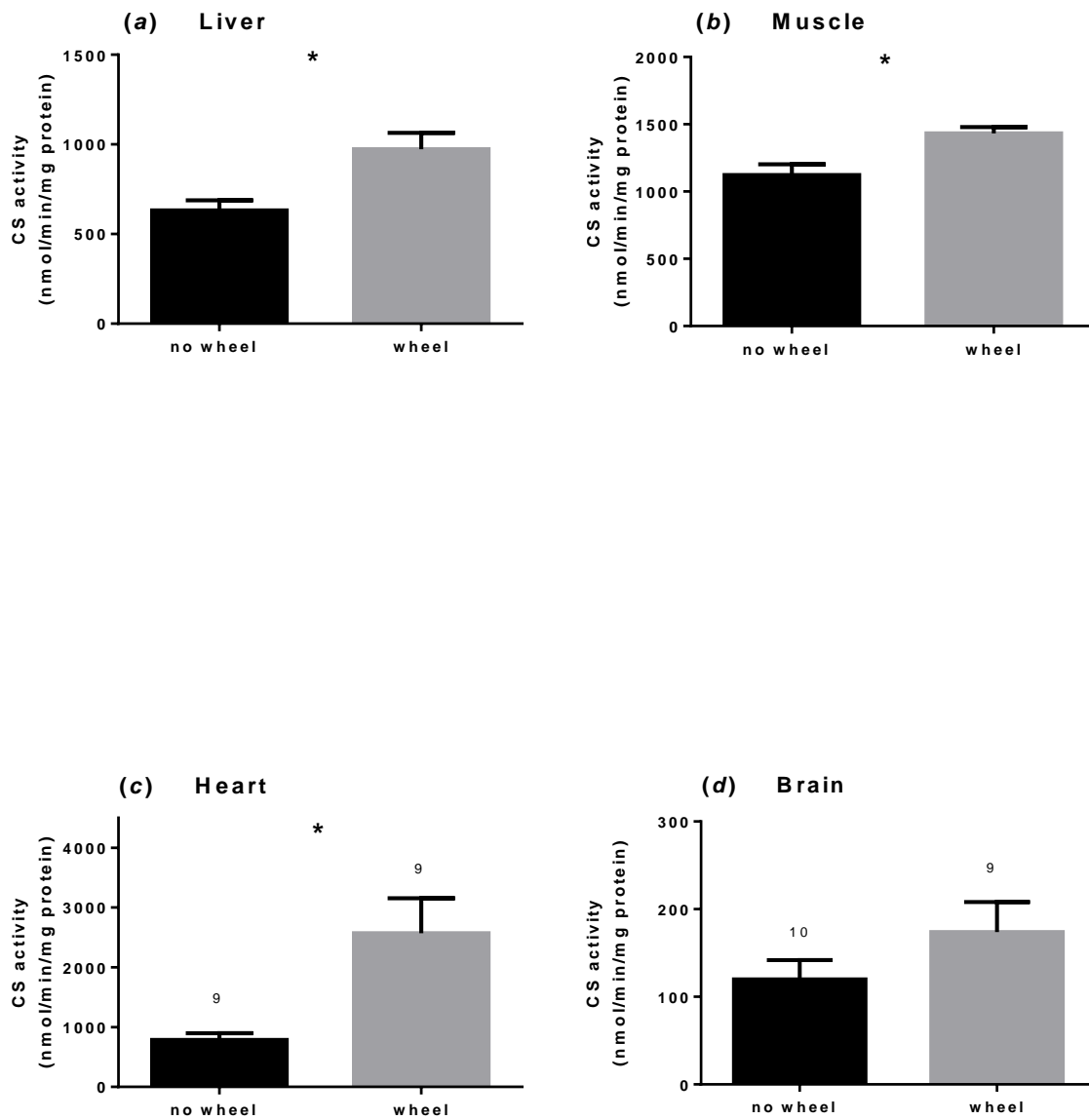


Fig. S2. Activity of citrate synthase in the (a) liver, (b) skeletal muscle, (c) heart, and (d) brain of mice. Data are presented as mean \pm standard error. n = 10 unless labeled above bars. * indicates $P < 0.05$