

**Supplement Table 1.** Change in mitochondrial respiratory function, ROS, oxidative damage, and antioxidant levels between peak lactation and 1-week post-partum in the rat. Results of t-tests are given. Data adapted from Hyatt et al. (2018a, b).

Variable; Organ	Peak Lactation	Post-Lactation	F	df	P
<b><u>Respiratory control ratio (state 3 / state 4 respiration)</u></b>					
<i>Liver</i>					
RCR complex I substrates	5.13 $\pm$ 0.20	4.94 $\pm$ 0.14	0.75	11	0.47
RCR complex II substrates	5.73 $\pm$ 0.18	6.21 $\pm$ 0.13	2.05	13	0.06
<i>Muscle</i>					
RCR complex I substrates	8.89 $\pm$ 0.29	8.70 $\pm$ 0.51	0.32	14	0.75
RCR complex II substrates	3.29 $\pm$ 0.05	3.39 $\pm$ 0.10	0.90	13	0.38
<b><u>ROS Production (H<sub>2</sub>O<sub>2</sub>/min/citrate synthase activity)</u></b>					
Liver	264.0 $\pm$ 12	205. $\pm$ 17	2.74	11	<b>0.02</b>
Muscle	16.7 $\pm$ 2.9	11.2 $\pm$ 2.3	1.53	10	0.16
<b><u>Oxidative damage (arbitrary units)</u></b>					
<i>Liver</i>					
Lipid peroxidation (4HNE)	0.99 $\pm$ 0.02	1.01 $\pm$ 0.03	0.46	14	0.64
Protein carbonyls	1.07 $\pm$ 0.04	1.06 $\pm$ 0.04	0.32	13	0.75
<i>Muscle</i>					
Lipid peroxidation (4HNE)	1.09 $\pm$ 0.03	0.97 $\pm$ 0.01	3.42	7.1*	<b>&lt;0.01</b>
Protein carbonyls	1.08 $\pm$ 0.05	0.95 $\pm$ 0.03	2.14	13	<b>0.05</b>
<b><u>Antioxidants (arbitrary units)</u></b>					
<i>Liver</i>					
SOD1	0.89 $\pm$ 0.04	1.12 $\pm$ 0.05	3.47	13	<b>&lt;0.01</b>
SOD2	0.85 $\pm$ 0.03	1.42 $\pm$ 0.09	6.28	8.2*	<b>&lt;0.01</b>
Catalase	1.06 $\pm$ 0.04	1.20 $\pm$ 0.05	2.42	13	<b>0.03</b>
GPX	0.84 $\pm$ 0.05	1.04 $\pm$ 0.06	2.49	13	<b>0.03</b>
<i>Muscle</i>					
SOD1	1.05 $\pm$ 0.06	0.93 $\pm$ 0.06	1.44	12	0.18
SOD2	1.46 $\pm$ 0.11	1.13 $\pm$ 0.09	2.30	9	<b>0.05</b>
Catalase	1.06 $\pm$ 0.07	0.99 $\pm$ 0.04	0.93	13	0.37
GPX	1.11 $\pm$ 0.10	1.01 $\pm$ 0.05	1.01	12	0.33

\*variances unequal between groups, Satterwaite approximation applied.