

Table S1. Means (M), standard deviations (SD) and univariate effects of the different antioxidant enzymes and GSH/GSSG ratio by concentration in the liver. The results with different letters mean that they are statistically different from each other ($p < 0.05$).

	Liver					F	p
	CTRL	MP-100	MP-200	BP-100	BP-200		
ENZYMES	M ± SD	M ± SD	M ± SD	M ± SD	M ± SD		
SOD	1.51 ± 0.25 ^a	1.75 ± 0.23 ^a	1.64 ± 0.28 ^a	1.74 ± 0.16 ^a	1.64 ± 0.29 ^a	1.267	0.302
CAT	939.43 ± 157.90 ^a	829.75 ± 115.53 ^a	669.21 ± 154.64 ^b	826.82 ± 152.03 ^a	714.80 ± 72.99 ^b	5.599	0.002
GR	1.55 ± 0.30 ^a	1.48 ± 0.28 ^a	1.20 ± 0.36 ^a	1.28 ± 0.25 ^a	1.21 ± 0.23 ^a	2.493	0.061
GST	0.25 ± 0.05 ^{a,b}	0.22 ± 0.03 ^{a,b}	0.21 ± 0.04 ^a	0.21 ± 0.01 ^a	0.26 ± 0.02 ^b	3.842	0.011
GSH/GSSG	6.21 ± 1.05 ^a	5.79 ± 0.53 ^{a,b}	4.54 ± 0.62 ^c	5.08 ± 0.65 ^{b,c}	4.51 ± 0.46 ^c	9.485	<0.001
Hydroperoxides	65.49 ± 6.09 ^a	72.25 ± 7.21 ^a	77.10 ± 6.45 ^a	74.47 ± 10.34 ^a	94.55 ± 9.72 ^b	8.831	<0.001

Table S2. Means (M), standard deviations (SD) and univariate effects of the different antioxidant enzymes and GSH/GSSG ratio by concentration in the kidney. The results with different letters mean that they are statistically different from each other ($p < 0.05$).

	Kidney					F	p
	CTRL	MP-100	MP-200	BP-100	BP-200		
ENZYMES	M ± SD	M ± SD	M ± SD	M ± SD	M ± SD		
SOD	1.84 ± 0.18 ^a	1.54 ± 0.16 ^b	1.65 ± 0.14 ^{a,b}	1.77 ± 0.19 ^{a,b}	1.84 ± 0.12 ^a	4.692	0.005
CAT	6499.8 ± 932.9 ^{a,b}	6758.0 ± 1716.5 ^b	6275.0 ± 1126.4 ^{a,b}	4351.0 ± 1279.6 ^a	4514.7 ± 1442.1 ^{a,b}	4.526	0.007
GR	2.68 ± 0.54 ^a	3.64 ± 0.52 ^b	4.85 ± 0.82 ^c	3.31 ± 0.53 ^{a,b}	3.75 ± 0.94 ^b	13.055	<0.001
GST	0.58 ± 0.15 ^a	0.55 ± 0.09 ^a	0.77 ± 0.07 ^b	0.66 ± 0.09 ^{a,b}	0.83 ± 0.11 ^b	8.005	<0.011
GSH/GSSG	3.96 ± 0.61 ^a	3.93 ± 0.39 ^a	3.83 ± 0.37 ^a	4.14 ± 0.56 ^a	4.09 ± 0.39 ^a	0.422	0.791
Hydroperoxides	81.1 ± 14.6 ^a	107.9 ± 9.4 ^{b,c}	117.6 ± 8.2 ^b	98.8 ± 12.8 ^{a,c}	101.3 ± 6.8 ^{b,c}	7.803	0.001

Table S3. Means (M), standard deviations (SD) and univariate effects of the different antioxidant enzymes and GSH/GSSG ratio by concentration in the heart. The results with different letters mean that they are statistically different from each other ($p < 0.05$).

Heart							
	CTRL	MP-100	MP-200	BP-100	BP-200	F	p
ENZYMES	M ± SD	M ± SD	M ± SD	M ± SD	M ± SD		
SOD	1.6 ± 0.3 ^a	1.5 ± 0.2 ^a	1.3 ± 0.3 ^a	1.6 ± 0.3 ^a	1.3 ± 0.3 ^a	1.952	0.128
CAT	6.40 ± 0.90 ^a	9.29 ± 2.48 ^b	10.85 ± 1.07 ^{b,c}	11.89 ± 1.12 ^{c,d}	13.79 ± 1.28 ^d	25.041	<0.001
GR	0.0005 ± 0.0003 ^a	0.0014 ± 0.0002 ^{b,c}	0.0011 ± 0.0002 ^b	0.0016 ± 0.0004 ^c	0.0022 ± 0.0004 ^d	31.918	<0.001
GST	0.0086 ± 0.0012 ^a	0.0085 ± 0.0014 ^a	0.0077 ± 0.0015 ^{a,b}	0.0062 ± 0.0011 ^b	0.0060 ± 0.0012 ^b	7.822	<0.001
GSH/GSSG	5.34 ± 0.62 ^a	4.86 ± 0.81 ^a	5.27 ± 0.32 ^a	5.19 ± 0.66 ^a	5.29 ± 0.198 ^a	0.683	0.610
Hydroperoxides	80.76 ± 5.23 ^a	89.47 ± 1.36 ^b	99.01 ± 7.08 ^c	94.23 ± 4.72 ^{b,c}	123.99 ± 4.89 ^d	63.366	<0.001

Table S4. Means (M), standard deviations (SD) and univariate effects of the different antioxidant enzymes and GSH/GSSG ratio by concentration in the seminal vesicles. The results with different letters mean that they are statistically different from each other ($p < 0.05$).

Seminal vesicles							
	CTRL	MP-100	MP-200	BP-100	BP-200	F	p
ENZYMES	M ± SD	M ± SD	M ± SD	M ± SD	M ± SD		
SOD	1.14 ± 0.09 ^{a,c}	0.81 ± 0.18 ^b	1.029 ± 0.27 ^{a,b}	1.36 ± 0.14 ^c	1.75 ± 0.09 ^d	31.635	<0.001
CAT	1.22 ± 0.09 ^a	1.15 ± 0.11 ^a	1.12 ± 0.21 ^a	0.89 ± 0.15 ^b	0.74 ± 0.22 ^b	12.437	<0.001
GR	7.22 ± 1.89 ^a	7.50 ± 2.17 ^a	5.46 ± 0.69 ^{a,b}	4.09 ± 0.98 ^b	3.99 ± 1.07 ^b	10.232	<0.001
GST	0.012 ± 0.0011 ^a	0.011 ± 0.0023 ^a	0.012 ± 0.0022 ^{a,b}	0.009 ± 0.0024 ^{b,c}	0.0078 ± 0.0025 ^c	6.600	<0.001
GSH/GSSG	5.29 ± 1.69 ^a	4.99 ± 0.96 ^a	5.07 ± 0.99 ^a	5.19 ± 1.11 ^a	4.61 ± 1.28 ^a	0.452	0.771