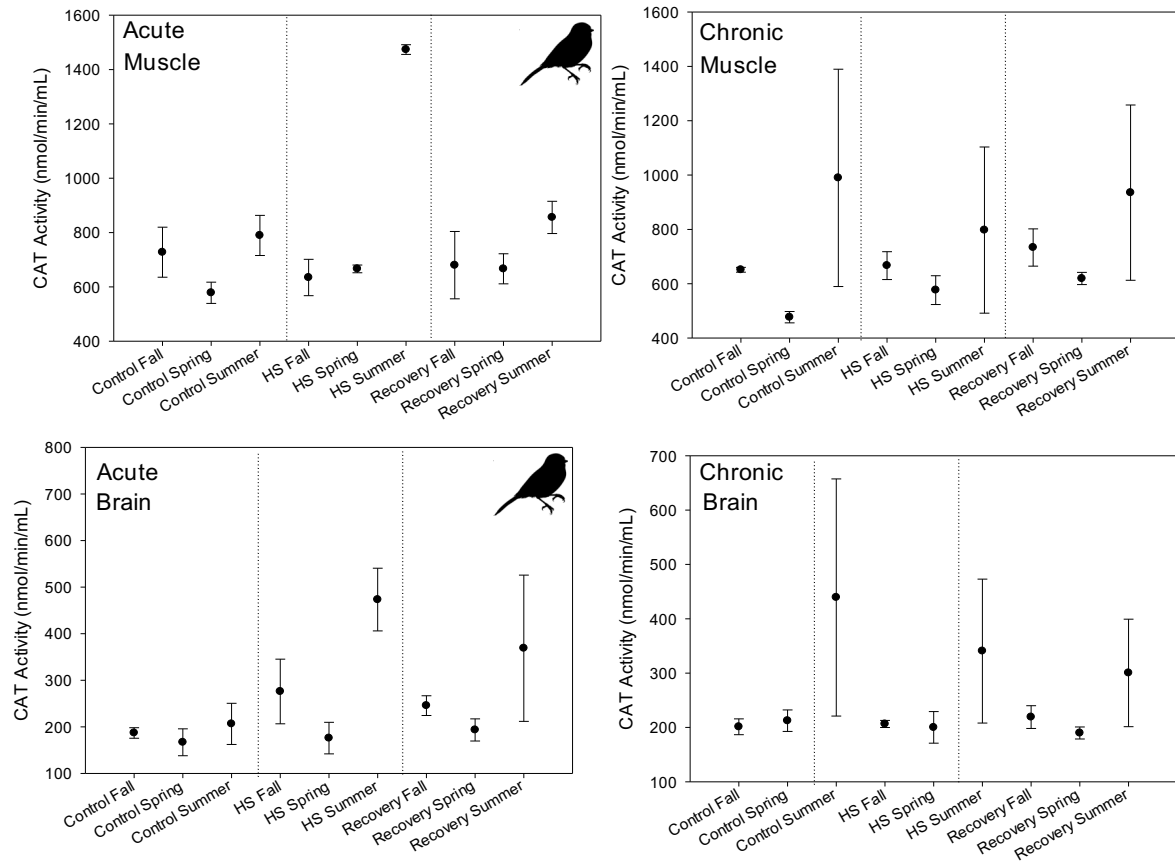


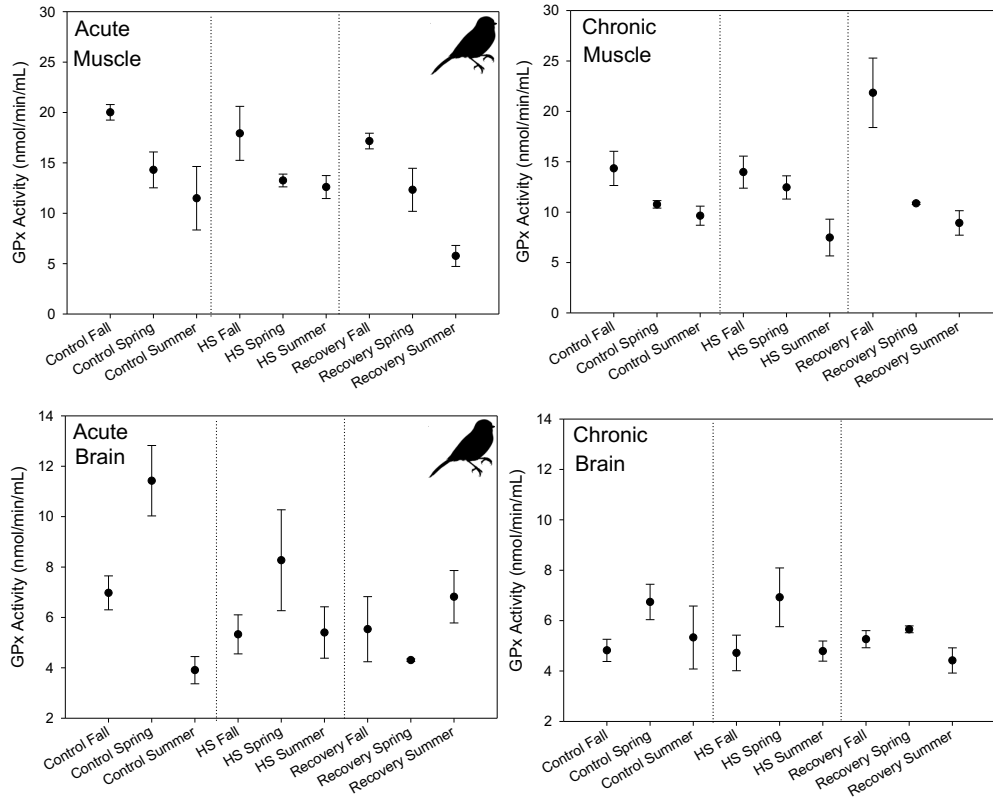
Jimenez, A. G., Tobin, K. J., Anderson, K. N., McCann, M. E. and Briggs, C. W. 2020. Differences in oxidative stress across seasons and ability to cope with environmental mismatch in muscle and brain of black-capped chickadees *Poecile atricapillus* and rock pigeons *Columba livia*. – J. Avian Biol. 2020: e02417

**Supplementary material**

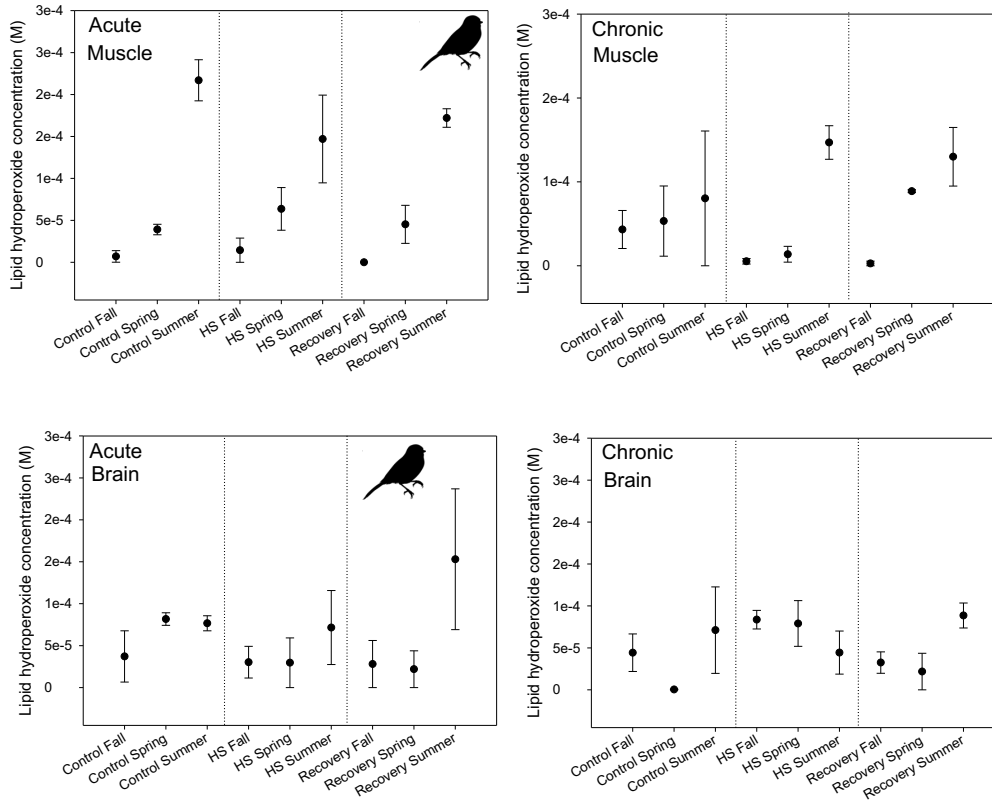
**Supplementary Figure 1-** Muscle and brain raw catalase (CAT) activity in black-capped chickadees across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



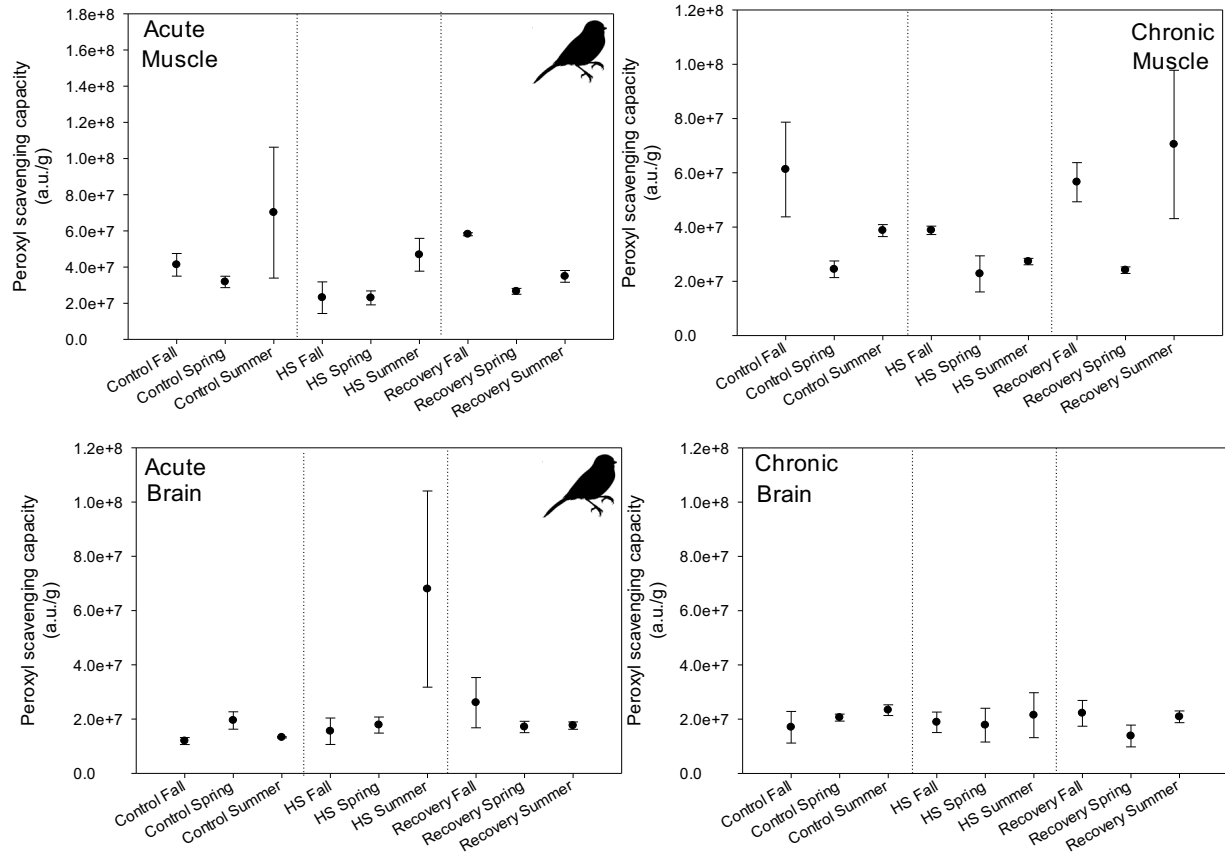
**Supplementary Figure 2-** Muscle and brain raw glutathione peroxidase (GPx) activity in black-capped chickadees across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



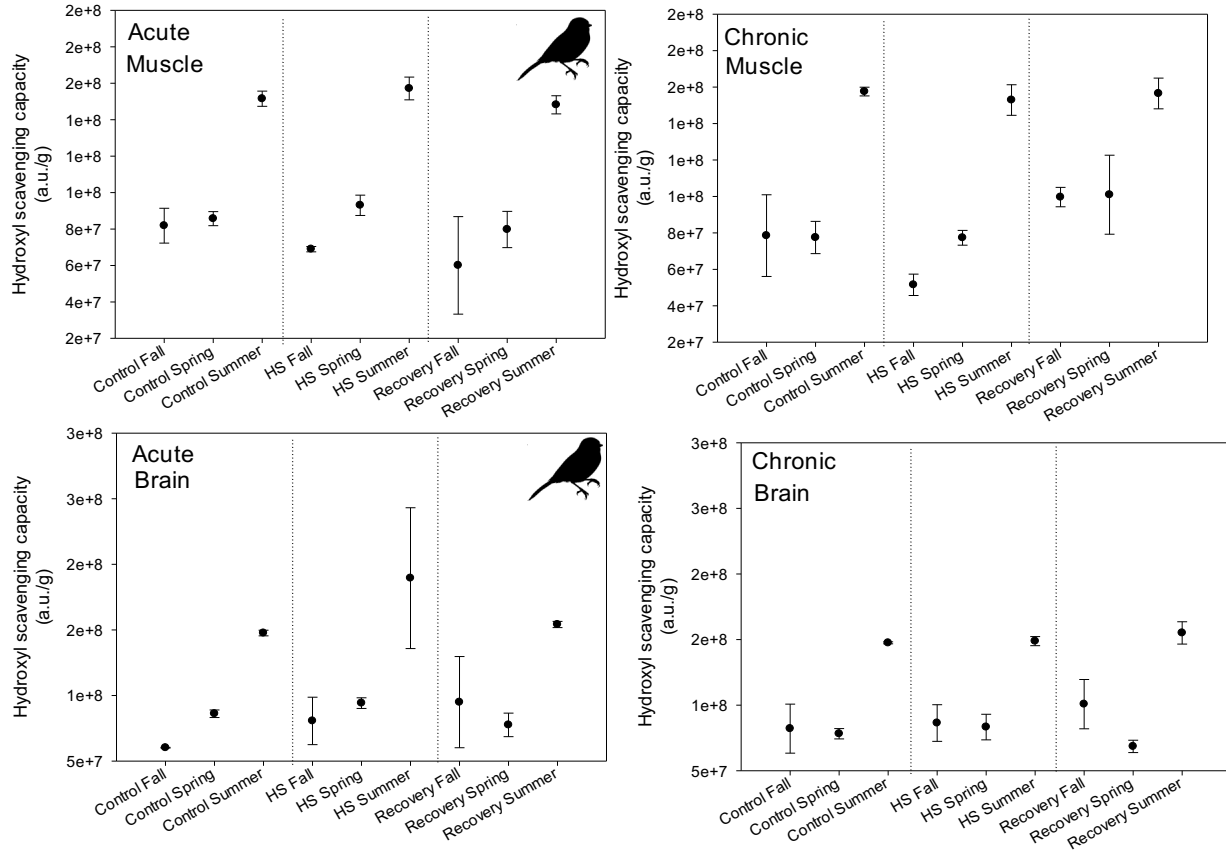
**Supplementary Figure 3-** Muscle and brain raw lipid peroxidation (LPO) damage in black-capped chickadees across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



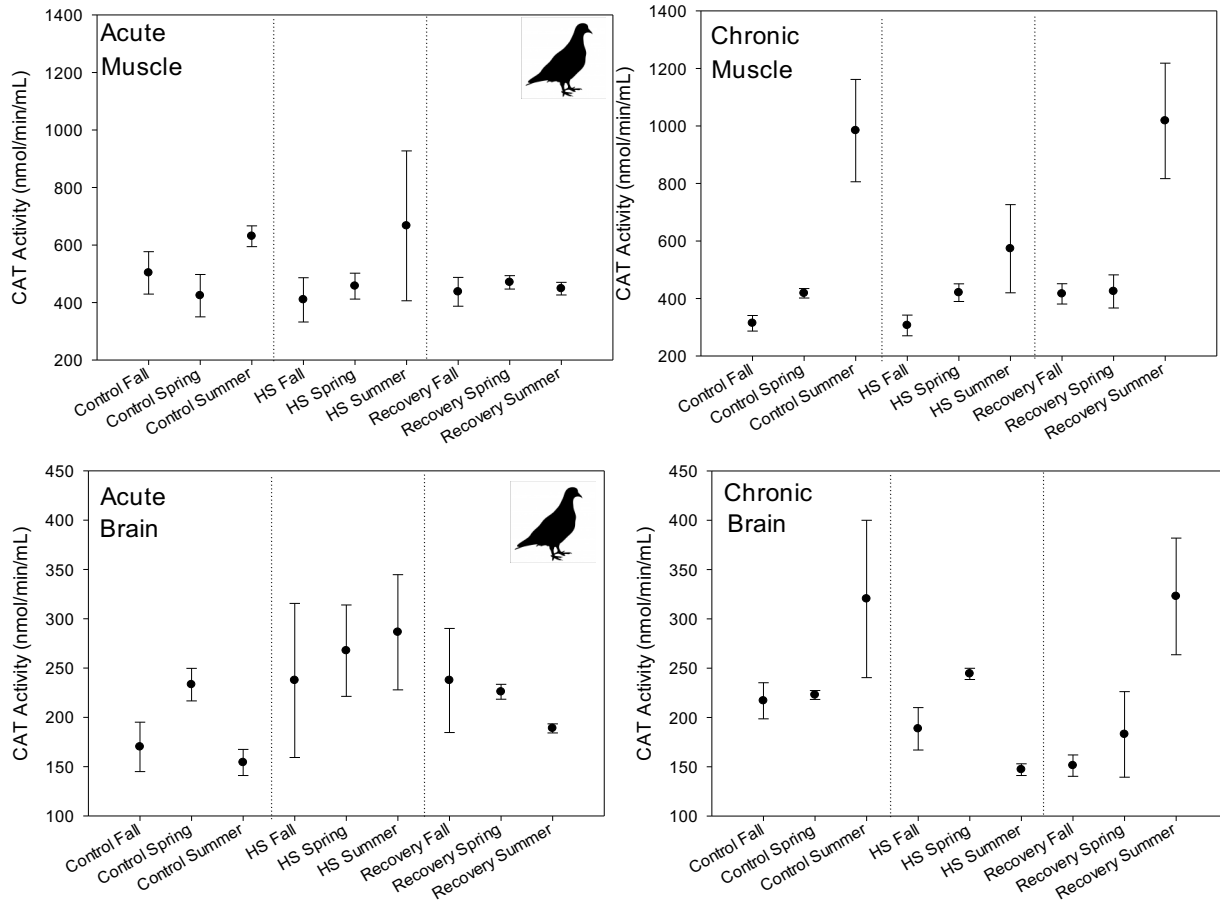
**Supplementary Figure 4-** Muscle and brain raw peroxy scavenging capacity in black-capped chickadees across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



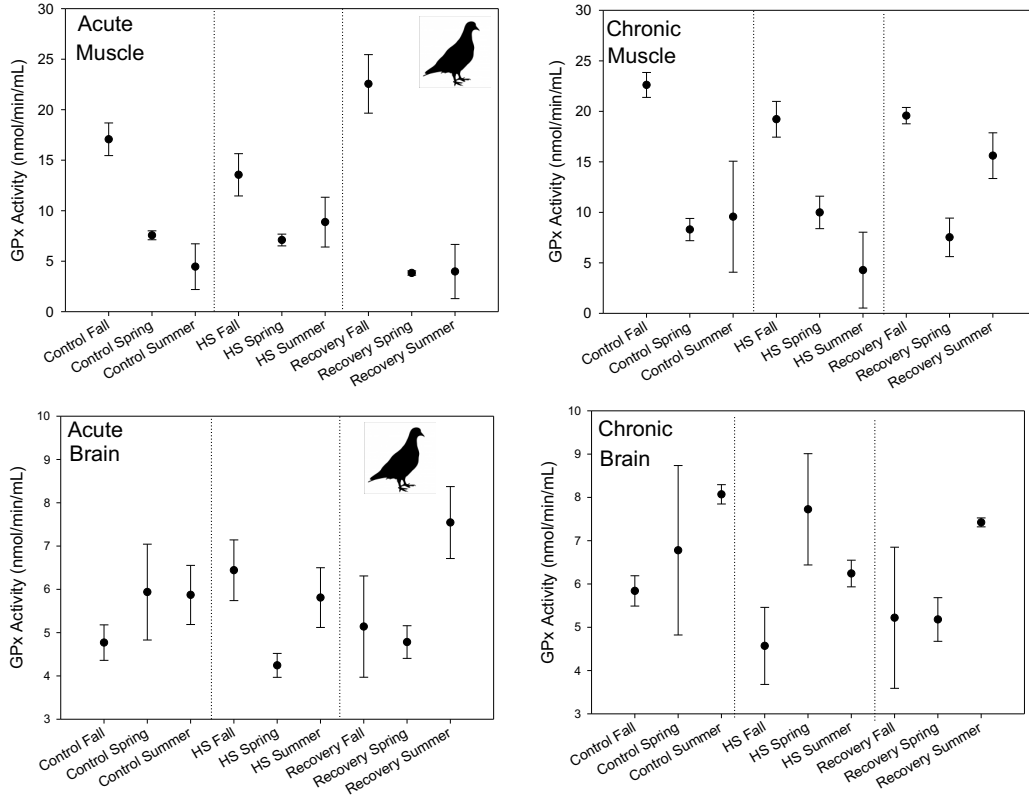
**Supplementary Figure 5-** Muscle and brain raw hydroxyl scavenging capacity in black-capped chickadees across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



**Supplementary Figure 6-** Muscle and brain raw catalase (CAT) activity in rock pigeons across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.

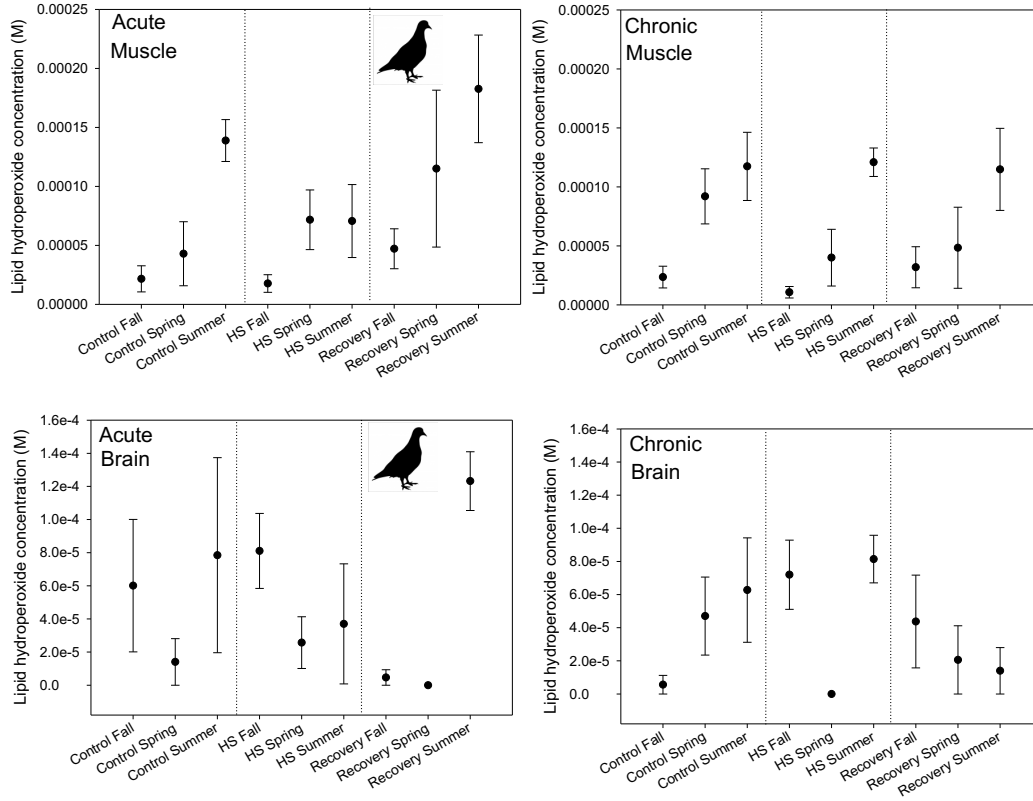


**Supplementary Figure 7-** Muscle and brain raw glutathione peroxidase (GPx) activity in rock pigeons across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.

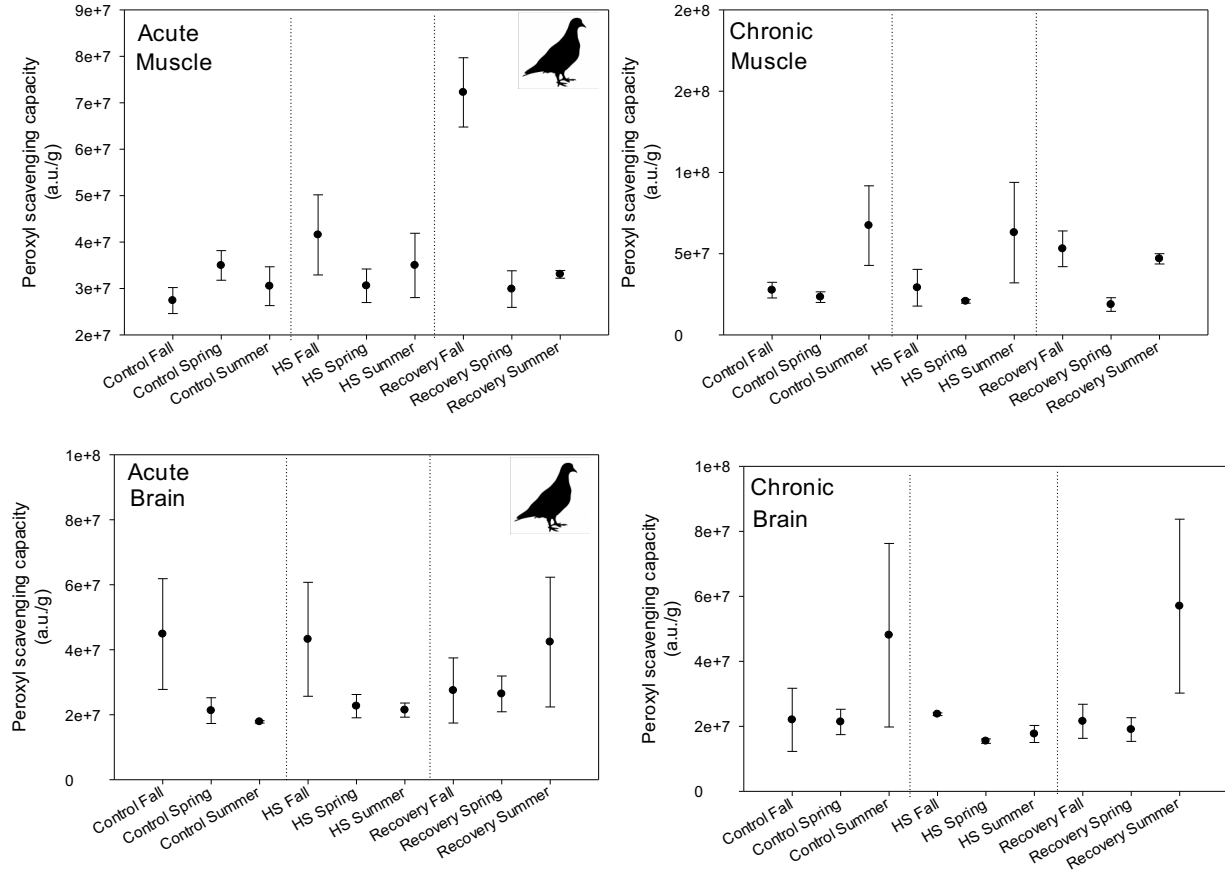




**Supplementary Figure 8-** Muscle and brain raw lipid peroxidation (LPO) damage in rock pigeons across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



**Supplementary Figure 9-** Muscle and brain raw peroxy scavenging capacity in rock pigeons across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.



**Supplementary Figure 10-** Muscle and brain raw hydroxyl scavenging capacity in rock pigeons across three seasons, and during acute and chronic thermal challenge. Samples sizes are listed on Table 1. Values are mean  $\pm$  SEM.

