**Diagnostic methods for the assessment of oxidative stress in livestock**

Laboratory techniques have been applied for the evaluation of oxidative potential and oxidative stress in livestock by analysing a panel of biomarkers.

Recent papers

* Fazio F, Piccione G, Soaca C, Caputo AR, Cecchini S (2015). Assessment of oxidative stress in Flathead mullet (*Mugil cephalus*) and Gilthead sea bream (*Sparus aurata*). *Veternární Medicína* 60:691-695.
* Cecchini S, Fazio F, Caputo AR, Saoca C, Fortino G, Piccione G (2016). Effect of two different farming systems on the redox balance in gilthead sea bream *Sparus aurata* (Linnaeus, 1758). *Cahiers de Biologie Marine* 57: 65-71.
* Fazio F, Cecchini S, Saoca C, Caputo AR, Lancellotti M, Piccione G (2016). Relationship of some oxidative stress biomarkers in Jumper horses after regular training program. *Journal of Equine Veterinary Science* 47: 20-24 DOI: 10.1016/j.jevs.2016.07.014
* Filiciotto F, Cecchini S, Buscaino G, Maccarrone V, Piccione G, Fazio F (2017). Impact of aquatic acoustic noise on oxidative status and some immune parameters in gilthead sea bream *Sparus aurata* (Linnaeus, 1758) juveniles. *Aquaculture Research* 48: 1895-1903 DOI: 10.1111/are.13027
* Cecchini S, Piccione G, Saoca C, Giangrosso G, Caputo AR, Fazio F (2018). Redox status, and lipid peroxidation and protein oxidation levels in small ruminants. *Journal of Animal and Feed Sciences* 27: 81-85 DOI: 10.22358/jafs/85305/2018
* Cecchini S, Fazio F, Bazzano M, Caputo AR, Giannetto C, Piccione G (2019). Redox status and oxidative stress during late pregnancy and postpartum period in mares, *Livestock Science* 230: 103821 DOI: 10.1016/j.livsci.2019.103821
* Cecchini S, Fazio F (2020). Assessment of total antioxidant capacity in serum of heathy and stressed hens. *Animals* 10: 2019 DOI: 10.3390/ani10112019
* Cecchini S, Fazio F (2021). Assessment of total (anti)oxidant status in goat kids. *Archives Animal Breeding* 64: 139-146 DOI: 10.5194/aab-64-139-2021
* Cecchini Gualandi S, Giangaspero B, Di Palma T, Macchia G, Carluccio A, Boni R (2021). Oxidative profile and protease regulator potential to predict sperm functionality in donkey (*Equus asinus*). *Scientific Reports* 11: 20551 DOI: 10.1038/s41598-021-99972-9
* Boni R, Cecchini Gualandi S (2022). Relationship between oxidative stress and endometritis: exploiting knowledge gained in mares and cows. *Animals* 12, 2403; DOI: 10.3390/ani12182403
* Cecchini Gualandi S, Di Palma T, Boni R (2023). Serological and uterine Biomarkers for detecting endometritis in mares. *Animals* 13, 253. DOI: 10.3390/ani13020253
* Cecchini Gualandi S, Boni R (2023). Ceruloplasmin interferes with the assessment of blood lipid hydroperoxide content in small ruminants. *Antioxidants* 12, 701. DOI: 10.3390/antiox12030701