

CURRICULUM VITAE of Gilberto Mosconi
Prof. Gilberto Mosconi (Area 05; SSD BIO/06)

<http://orcid.org/0000-0001-8773-8208>.

H-index: 26 (Scopus); 1985 Citations by 1554 documents (access on 26nd July 2022)

Gilberto Mosconi is Full Professor at the School of Biosciences and Veterinary Medicine, University of Camerino.

The research activity of Gilberto Mosconi in the field of Comparative Endocrinology, is related to:

- Reproductive biology: hormonal control of reproduction in different experimental models (marine and freshwater teleost and amphibians), with particular attention to endocrine control of hepatic synthesis of vitellogenin.
- Aquaculture: neuroendocrine control of fish reproduction. Welfare of farmed fish. Food quality and safety of fishery production.
- Endocannabinoid system: environment, stress and reproduction
- Environmental endocrinology: development of proteomic and genomic biomarkers to assess the effects induced by environmental xenoestrogens exposure. Assessment of endocrine disruptors in food production chain.

PREVIOUS POSITION

- Associate Professor (Comparative Anatomy and Cytology) at School of Biosciences and Veterinary Medicine of the University of Camerino (2014-2021)
- Assistant Professor (Comparative Anatomy and Cytology) at School of Biosciences and Veterinary Medicine of the University of Camerino (2005-2014)
- Technical Assistant in the Laboratory of Comparative endocrinology of the Department of Biology M.C.A. of the University of Camerino (1991-2005)

EDUCATION

- Degree in Biology at University of Camerino (1990)

INSTITUTIONAL RESPONSIBILITIES

From 01/11/2017 Rector's representative for Lifelong learning and teacher training

From 2016 head of the Degree Programme in Nutrition biology

FUNDING ID FROM 2007

- Ministero Politiche Agricole, Alimentari e Forestali (2007): Produzione di avannotti di sogliola di elevata qualità utilizzando mangimi a basso impatto ambientale e sperimentazione di un protocollo per il rilascio di novellame in condizioni controllate. (Research Group Member).
- Regione Marche SFOP (2007): Tecnologie di alimentazione larvale in *Solea solea* per lo sviluppo di un'acquacoltura sostenibile. (Research Group Member).
- Ministero Politiche Agricole, Alimentari e Forestali (2008): Un modello sperimentale per la valutazione degli effetti dell'inquinamento sulle risorse della pesca. (Research Group Member).
- MIUR-PRIN 2008: The role of endocannabinoid system in the xenoestrogens induced stress response in experimental models of teleosts (Principal Investigator of R.U.).
- Regione Toscana (2009): Definizione di mangimi e protocolli alimentari nell'allevamento di *Solea solea* - ALISOL. (Principal Investigator)

- Provincia di Macerata (2009): Biomonitoraggio sui fiumi Chienti e Potenza volto a valutare l'eventuale presenza di interferenti endocrini. (Principal Investigator)
- MIUR-PRIN 2010: Turmoil exerted by endocrine disruptors in vertebrates: emerging aspects in the induction of obesity and reproductive activity alteration. (Principal Investigator of R.U.)
- European Commission – Maritime Affairs and Fisheries - Call for proposals MARE/2012/25 - Preparatory Action "Guardians of the Sea" (Research Group Member).

OTHER PROFESSIONAL ACTIVITIES

- REFEREE FOR SCIENTIFIC JOURNALS: General and Comparative Endocrinology; Environmental Toxicology; Pesticide Biochemistry and Physiology; Italian Journal of Zoology; Scientific Reports
- NATIONAL AND INTERNATIONAL SCIENTIFIC COLLABORATIONS:
 - Habibi H.R. - Department of Biological Sciences, University of Calgary, Canada T2N1N4.
 - Kikuyama S. - Department of Biology, School of Education, Waseda University, Tokyo, Japan
 - Carnevali O. - Dipartimento di Scienze della Vita e dell'Ambiente, Università Politecnica delle Marche, Ancona
 - Tibaldi E. - Dipartimento di Scienze degli alimenti, Università di Udine, Udine
 - Arukwe A. Department of Biology, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

PUBLICATION LIST (restricted to 20 in the last 5 years) of Gilberto Mosconi

1. COCCI P., CAPRIOTTI M., MOSCONI G., CAMPANELLI, A., FRAPICCINI, E., MARINI, M., CAPRIOLI, G., SAGRATINI, G., ARETUSI, G., AND PALERMO F.A. (2017). Alterations of gene expression indicating effects on estrogen signaling and lipid homeostasis in seabream hepatocytes exposed to extracts of seawater sampled from a coastal area of the central Adriatic Sea (Italy). *Marine environmental research*. 123: 25-37.
2. COCCI P., CAPRIOTTI M., MOSCONI G., AND PALERMO F.A. (2017). Transcriptional variations in biomarkers of *Mytilus galloprovincialis* sampled from Central Adriatic coastal waters (Marche Region, Italy). *Biomarkers*. 22: 537-547.
3. COCCI P., CAPRIOTTI M., MOSCONI G., AND PALERMO F.A. (2017). Effects of endocrine disrupting chemicals on estrogen receptor alpha and heat shock protein 60 gene expression in primary cultures of loggerhead sea turtle (*Caretta caretta*) erythrocytes. *Environmental Research*. 158:616-624.
4. COCCI P., MOSCONI G., AND PALERMO F.A. (2017). Pregnane X receptor (PXR) signaling in seabream primary hepatocytes exposed to polycyclic aromatic hydrocarbon-contaminated seawater from coastal areas of the central Adriatic Sea. *Marine Environmental Research* 130: 181-186.
5. COCCI P., MOSCONI G., BRACCHETTI, L., NALOCCA, J.M., FRAPICCINI, E., MARINI, M., CAPRIOLI, G., SAGRATINI, G., AND PALERMO F.A. (2018). Investigating the potential impact of polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) on gene biomarker expression and global DNA methylation in loggerhead sea turtles (*Caretta caretta*) from the Adriatic Sea. *Science of the total environment*. 619-620: 49-57.
6. COCCI P., MOZZICAFREDDO M., ANGELETTI, M., MOSCONI G. AND PALERMO F.A. (2018). Differential tissue regulation of peroxisome proliferator-activated receptor α (PPAR α) and cannabinoid receptor 1 (CB1) gene transcription pathways by diethylene glycol dibenzoate (DEGB): preliminary observations in a seabream (*Sparus aurata*) in vivo model. *Environmental toxicology and pharmacology*. 55: 87-93.
7. POMATTO V., COTTONE E., COCCI P., MOZZICAFREDDO M., MOSCONI G., NELSON E.R., PALERMO F.A. AND BOVOLIN P. (2018). Plasticizers used in food-contact materials affect adipogenesis in 3T3-L1 cells. *Journal of steroid biochemistry and molecular biology*. 178: 322-332.
8. COCCI P., MOSCONI G., PALERMO F.A. (2019). Changes in expression of microRNA potentially targeting key regulators of lipid metabolism in primary gilthead sea bream hepatocytes exposed to phthalates or flame retardants. *Aquatic Toxicology* 209: 81-90

9. COCCI P., MOSCONI G., PALERMO F.A. (2019). Gene expression profiles of putative biomarkers in juvenile loggerhead sea turtles (*Caretta caretta*) exposed to polycyclic aromatic hydrocarbons. *Environmental Pollution* 246: 99-106.
10. COCCI P, PALERMO FA, PUCCIARELLI S, MIANO A, CUCCIOLONI M, ANGELETTI M, RONCARATI A, MOSCONI G (2019). Identification, partial characterization, and use of grey mullet (*Mugil cephalus*) vitellogenins for the development of ELISA and biosensor immunoassays. *International Aquatic Research* 11: 389-399.
11. COCCI P, MOSCONI G, PALERMO FA (2020). Sunscreen active ingredients in loggerhead turtles (*Caretta caretta*) and their relation to molecular markers of inflammation, oxidative stress and hormonal activity in wild populations. *Marine Pollution Bulletin* 153: 111012.
12. COCCI P, RONCARATI A, CAPRIOTTI M, MOSCONI G, PALERMO AF (2020). Transcriptional alteration of gene biomarkers in hemocytes of wild *Ostrea edulis* with molecular evidence of infections with *Bonamia* spp. and/or *Marteilia refringens* parasites. *Pathogens*, 9(5), 323.
13. CAPRIOTTI M, COCCI P, BRACCHETTI L, COTTONE E, SCANDIFFIO R, CAPRIOLI G, SAGRATINI G, MOSCONI G, BOVOLIN P, PALERMO FA (2021). Microplastics and their associated organic pollutants from the coastal waters of the central Adriatic Sea (Italy): Investigation of adipogenic effects in vitro. *Chemosphere*, 263, 128090.
14. COCCI P, MORUZZI M, MARTINELLI I, MAGGI F, MICIONI DI BONAVENTURA MV, CIFANI C, MOSCONI G, TAYEBATI SK, DAMIANO S, LUPIDI G, AMANTINI C, TOMASSONI D, PALERMO FA (2021). Tart cherry (*Prunus cerasus* L.) dietary supplement modulates visceral adipose tissue CB1 mRNA levels along with other adipogenesis-related genes in rat models of diet-induced obesity. *Eur J Nutr.* 60(5):2695-2707.
15. COCCI, P, MOSCONI G, PALERMO FA (2021). An in silico and in vitro study for investigating estrogenic endocrine effects of emerging persistent pollutants using primary hepatocytes from grey mullet (*Mugil cephalus*). *Environments*, 8, 58.
16. COCCI P, MOSCONI G, PALERMO FA. (2021). Effects of tributyltin on retinoid X receptor gene expression and global DNA methylation during intracapsular development of the gastropod *Tritia mutabilis* (Linnaeus, 1758). *Environ Toxicol Pharmacol.* 7; 88:103753.
17. COCCI P, MOSCONI G, PALERMO FA. (2022) Organic UV filters induce toll-like-receptors and related signaling pathways in peripheral blood mononuclear cells of juvenile loggerhead sea turtles (*Caretta caretta*). *Animals.* 27;12(5):594.