



University of Messina

**DEPARTMENT OF VETERINARY SCIENCES**

**CURRICULUM VITAE ET STUDIORUM**

**Prof. Francesco Fazio**

Full Professor of Veterinary Physiology (VET/02) - Department of Veterinary Science – University of Messina. Tel. +0390906766516

e-mail: [ffazio@unime.it](mailto:ffazio@unime.it)

**EDUCATION AND POSITION OBTAINED:**

**1996** - Degree in Veterinary Medicine, University of Messina.

**1999** - Ph.D. in Physiology- Veterinary Medicine.

**2000** - Post-doctorate scholarship in Physiology.

**2002** - Grant research “Chronophysiology of physical performance of the athletic horse” -Faculty of Veterinary Medicine, University of Messina

**2006** - Researcher of Veterinary Physiology- Faculty of Veterinary Medicine, University of Messina.

**2008**- responsible for the Laboratory of Veterinary Chronophysiology and Comparative Exercise Physiology Laboratory of the Unit Physiology -Department of Veterinary Sciences of the University of Messina.

**2016**- Associate Professor of Veterinary Physiology (VET/02) - Department of Veterinary Science – University of Messina.

**2018** - Diplomate ECAAH (EUROPEAN COLLEGE OF AQUATIC ANIMAL HEALTH).

**2022** - Full Professor of Veterinary Physiology (MVET-01/B) - Department of Veterinary Science – University of Messina.

**2023–current:** Doctorate Coordinator of the PhD Programme in “VETERINARY, BIOTECHNOLOGICAL AND AGRICULTURAL SCIENCES”

**SCIENTIFIC RESPONSABILITY:**

2002/2003, obtained a funding of 5000 euro from 2002 academic funds, within the “Young Researchers” project, to carry out a study entitled “Evaluation of the hemogasanalytic parameters during physical exercise in the athletic horse”.

PRA, 2008: Iron status in monitoring of adaptation at exercise of the athlete horse during training and after the race

**SCIENTIFIC COLLABORATION:**

PRA-2002: The food intake as time signal for the circadian rhythm of some physiological parameters in ruminants.

PRA-2004: Influence of time of administration of the ration progress on circadian rhythm of some physiological parameters and on circadian locomotor activity in horses.

PRA-2005: Evaluation of the influence of circadian oscillators on circadian chronometabolism of sheep

PRA-2006-07: Influence of light/dark cycle on the circadian rhythm of locomotor activity and some physiological parameters for the objective definition of morning type and evening type of some pets.



*University of Messina*

**DEPARTMENT OF VETERINARY SCIENCES**

PRIN 2008 –Effects on food intake planned on peripheral oscillators that control the circadian rhythms of some physiological and metabolic parameters in cattle”.

**APPOINTMENTS:**

Member of teaching staff of Research Doctorate of “Equine Physiology” since 2006 to 2007.

Member of teaching staff of Research Doctorate of “Methodologies of the Representation Systems of Environmental and Animal Semeiotics ” since 2007 to 2009.

Member of teaching staff of Research Doctorate of “Applied Animal Experimental Science”, 2011 and 2012.

2013- present: Member of teaching staff of Research Doctorate of Veterinary Science”.

2016- 2023: Member of the Join Committee (‘Commissione paritetica’) of the Department of Veterinary Sciences of the University of Messina.

May 2023 at present: President of Quality Assurance (QA) in PhD Programme in “VETERINARY, BIOTECHNOLOGICAL AND AGRICULTURAL SCIENCES”

**TEACHING:**

From 2001 to 2005, tutor of Physiology at the degree course interacademy of Sciences and Technologies of Animal Productions of the University of Magna Græcia in Catanzaro.

2003 teacher of Physiology within the scientific course entitled: “Technical manager of agro-zootechnical spinneret for high-quality productions”, founded from the Institute of the Development of Mediterranean in Palermo.

2004-2005, teaching assistant Specialization Course in "Inspection of animal origin food" founded from the Faculty of Veterinary Medicine the University of Messina, in Caltanissetta.

2005-2006, delivered practical lectures on the following modules: “Cardiology of dogs and cats”, “Horses and small animals Surgery”,

From 2004-to 2006 delivered practical lectures on the “Medicine and Surgery of non conventional animals”.

From 2006 to 2008, Course of Improvement in "Biotechnological Applications in aquaculture in sea" with a cycle of lessons on the Physiology of fish.

2009/2010 delivered practical lectures on the “Physiology of non conventional animals”.

From 1997 to 2009 cycle of lessons and part practice of "Vegetative Physiology of domestic animals" and "Vegetative Physiology of Athletic Species" in Course in Veterinary Medicine (class 47/S).

2010/11 teacher in “Veterinary Physiology” at the degree course interacademy of Biotechnology (Classe L-2) Faculty of Medicine and Surgery-University of Messina

From 2011 to 2013 cycle of lessons and part practice of "Vegetative Physiology and Applied Vegetative Physiology” in Course in Veterinary Medicine (Classe LM42)

2011- Lessons Physiology of reproduction (sex determination, testes and spermatogenesis, ovary and oogenesis, reproductive cycle regulation in teleost). FORINNOVAQUA. Formazione per l’innovazione in acquacoltura - PON 2011 (PON02\_00451\_3362185-F1)

From 2012/2013 to 2018/2019: Aggregate Professor of Physiology of Farm Animal at the degree course interacademy of Sciences and Technologies of Animal Productions of the University of Magna Græcia in Catanzaro.



University of Messina

## DEPARTMENT OF VETERINARY SCIENCES

From 2012/2013- current: Professor of "Applied Vegetative Physiology" in Course of Veterinary Medicine (LM/42) University of Messina.

From 2019/2020 –current: Professor of "Applied animal physiology for quality production" in Course of Safety and Quality of Animal Productions (LM/86) University of Messina.

For 2020/2021 –current: Lecturer at the School of Specialization in Inspection of food of animal origin – Department of Veterinary Sciences – University of Messina.

### **ERASMUS activity:**

June 2017 – ERASMUS staff mobility for training between Department Veterinary Sciences and Medical University of Varna (Bulgaria), Department of Pharmacy.

July 2018 - ERASMUS staff mobility for training BULGARIA - Medical University of Varna (Bulgaria), Department of Pharmacy.

May 2019 - ERASMUS staff mobility for training between Department Veterinary Sciences and Medical University of Varna (Bulgaria), Department of Pharmacy.

September 2022 – ERASMUS staff mobility for training between Department Veterinary Sciences and Medical University of Varna (Bulgaria), Department of Pharmacy

July 2024 – ERASMUS staff mobility for training in Mugla Sitki kocman University of MUGLA(Turchia)

### **Editorial board:**

- Heliyon  
(<https://www.cell.com/heliyon/veterinary-science/editors>)
- *Animals*  
(<https://www.mdpi.com/journal/animals/editors#editorialboard>)
- *Journal of Equine Veterinary Science (JEVS)*  
(<https://www.sciencedirect.com/journal/journal-of-equine-veterinary-science/about/editorial-board>)
- *Turkish Journal of FISHERIES and AQUATIC SCIENCES*  
(<http://www.trjfas.org/static.php?id=3>)
- *Turkish Journal of Zoology* (<https://journals.tubitak.gov.tr/zoology/index.htm>)
- *Journal of Applied Aquaculture (WJAA)*  
(<https://www.tandfonline.com/journals/wjaa20/about-this-journal#journal-metrics>)

### **Guest Associate Editor:**

- *Frontiers Physiology - Aquatic Physiology– Aquatic Physiology, Environmental Pollution, Nanotoxicology and Phytoremediation.*

(<https://www.frontiersin.org/research-topics/9009/aquatic-physiology-environmental-pollution-nanotoxicology-and-phytoremediation>).

- *Frontiers Physiology - Research Topic - The Effect of Physical and Chemical Stressors on the Reproduction of Marine Invertebrates*

([https://www.frontiersin.org/research-topics/15136/the-effect-of-physical-and-chemical-stressors-on-the-reproduction-of-marine-invertebrates?utm\\_source=F-](https://www.frontiersin.org/research-topics/15136/the-effect-of-physical-and-chemical-stressors-on-the-reproduction-of-marine-invertebrates?utm_source=F-)



University of Messina

**DEPARTMENT OF VETERINARY SCIENCES**

[RTM&utm\\_medium=TED1&utm\\_campaign=PRD TED1 TI RT-TITLE#overview](#)

- *Animals — Open Access Journal - Special Issue " Climate Change Impact on Blood Biomarkers in Domestic and Production Animals "*  
[\(Climate Change Impact on Blood Biomarkers in Domestic and Production Animals\)](#)

Actually closed:

- *Animals — Open Access Journal - Special Issue "Effects of Pollutants on Fish"*  
[https://www.mdpi.com/journal/animals/special\\_issues/Effects\\_of\\_Pollutants\\_on\\_Fish](https://www.mdpi.com/journal/animals/special_issues/Effects_of_Pollutants_on_Fish)
- *Animals — Open Access Journal - Special Issue "Feed Vegetable Integration and Nutraceuticals Effects in Fish: The Future of Aquaculture"*  
[https://www.mdpi.com/journal/animals/special\\_issues/Future\\_of\\_Aquaculture](https://www.mdpi.com/journal/animals/special_issues/Future_of_Aquaculture)
- *Animals — Open Access Journal - Special Issue "Use of Plant-Based Bioactive Products in Good Aquaculture Practices (GAPs)"*  
[https://www.mdpi.com/journal/animals/special\\_issues/Bio\\_Active\\_Products\\_in\\_GAPs](https://www.mdpi.com/journal/animals/special_issues/Bio_Active_Products_in_GAPs)

**Editor –in chief (2019-2023):**

- *Veterinary Medicine – Open Journal (VMOJ)*  
<https://openventio.org/category/journal-index/veterinary-medicine-open-journal-vmoj/>

**REVIEWER:**

Aquaculture, Aquaculture Research, Environmental Science and Pollution Research, Animals, Antioxidants Journal of Applied Animal Research, Journal of Experimental Zoology Part A: Ecological Genetics and Physiology, Drug and Chemical Toxicology, Veterinary Clinical Pathology, Chronobiology International, Journal of Marine Science and Engineering, Toxics, Animal Biotechnology, Fish Physiology and Biochemistry, Aquaculture Nutrition, Aquaculture, Pakistan Journal of Zoology, Journal of Applied Aquaculture, Journal of Animal Physiology and Animal Nutrition, Journal of Fish Diseases, Water, Air, & Soil Pollution, Anais da Academia Brasileira de Ciencias, Anatomia, Histologia, Embryologia, Italian Journal of Animal Science, Hydrobiology, Journal of Biochemical and Molecular Toxicology, North American Journal of Aquaculture, Chemistry and Ecology, Brazilian Archives of Biology and Technology, Chemosphere, Journal of the World Aquaculture Society, Biotechnic and Histochemistry, Acta Zoologica, Lakes & Reservoirs: Research and Management, Natural Product Research, Canadian Journal of Zoology, Metabolites, Agriculture, Acta Agriculturae Scandinavica - Section A: Animal Science, Aquaculture International, Environmental Monitoring and Assessment, Biological Trace Element Research, Journal of the Science of Food and Agriculture, Toxin Reviews, Journal of Veterinary Emergency and Critical Care, Sustainability, Environmental Toxicology, Ciência Rural, BMC Veterinary Research, Veterinary and Animal Science, Journal of Aquatic Animal Health, Fisheries Science, Egyptian Journal of Microbiology, Turkish Journal of Zoology, Turkish Journal of Veterinary and Animal Sciences, Journal of Equine Veterinary Science, Environmental Toxicology and Pharmacology, International Journal of Molecular Sciences, Domestic Animal Endocrinology, Pesticide Biochemistry and Physiology, Journal of the American Association for

Department of Veterinary Sciences – University of Messina

Viale Giovanni Palatucci, 13 -98168 Messina (Italy).

tel. +39 0906766516 - email: [ffazio@unime.it](mailto:ffazio@unime.it)

website: <https://archivio.unime.it/it/persona/francesco-fazio-0/curriculum> -



University of Messina

**DEPARTMENT OF VETERINARY SCIENCES**

Laboratory Animal Science, Arquivo Brasileiro de Medicina Veterinária E Zootecnia, Tissue and Cell, Journal of Trace Elements in Medicine and Biology, The European Zoological Journal, Veterinarski Arhiv, Neuroscience Research Notes, Canadian Journal of Veterinary Research, Aquatic Biosystems, Large Animal Review, Journal of Circadian Rhythms, BMC Veterinary Research, Fish shellfish and immunology, International Journal of Veterinary Science and Research, World Rabbit Science, Journal of animal physiology and animal nutrition. Asian-Australasian, Journal of Animal Sciences (AJAS), Journal wildlife Disease, Journal of Aquatic Animal Health, Comparative Clinical Pathology, Environmental Pollution, Animal Production Science, Comparative Biochemistry and Physiology, Czech Journal of Animal Science, Polar Research, Journal of Photochemistry & Photobiology, B: Biology, Drug and Chemical Toxicology, Ecotoxicology and Environmental Safety, Science of the Total Environment, The European Zoological Journal, Microscopy Research and Technique, Chemosphere, Cell and Tissue, Biotechnic & Histochemistr. Veterinární Medicína, Acta Zoologica, Annals of Warsaw University of Life Sciences, Animal Science, Preventive Veterinary Medicine. Veterinary Clinical Pathology. Animals, Heliyon.

**Reviewer for foreign Phd Thesis:**

- University of Sargodha, Sargodha, Punjab, Pakistan

**CITATION REPORTS:**

*Metrics overview by Scopus*

Publications (2001-2025): 322

Total citations: 6,341 by 4,048 documents

H index: 37

<http://orcid.org/0000-0003-3198-2580>

**COLLABORATOR WITH THE FOLLOWING INSTITUTIONS:**

Department of Aquaculture, Mugla Sitki Kocman University, Mugla, Turkey.

Department of Animal Nutrition and Nutritional Diseases, Kastamonu University Veterinary Faculty, Kastamonu, Turkey

Medical University of Varna - Faculty of Pharmacy, Bulgaria.

Department of Marine Science, Caspian Sea Basin Research Center, University of Guilan, Rasht, Iran

Department of Zoology, University of Sargodha, Sargodha, Punjab, Pakistan

Kovalevsky Institute of Biology of the Southern Seas of Russian Academy of Sciences (IBSS RAS), Moscow, Russian Federation

Circadian Rhythm Laboratory, University Drive Boise U.S.A.

Dipartimento di Scienze Università degli studi della Basilicata, Potenza.

Dipartimento di Dipartimento di Scienze chimiche, biologiche, farmaceutiche ed ambientali dell'Università degli Studi di Messina.

Istituto per l'Ambiente Marino Costiero U.O. di Messina - Consiglio Nazionale delle Ricerche, Messina.



*University of Messina*

**DEPARTMENT OF VETERINARY SCIENCES**

**MAJOR RESEARCH/PROFESSIONAL INTERESTS:**

Seasonal monitoring of hematologic and biochemical profile in fish species used in aquaculture

Water quality and blood response in fish

Blood biomarkers in teleost

Blood parameters in culture fish

**PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNAL**

For the complete list of my publications:

ORCID (<http://orcid.org/0000-0003-3198-2580>)

Scopus Author ID: 7102582639 (<https://www.scopus.com/authid/detail.uri?authorId=7102582639>)

Membership in the Italian Society of Veterinary Physiology (SoFiVet);

*Messina, 8 february 2025*

*Prof. Francesco Fazio*