

EUROPEAN  
CURRICULUM VITAE  
FORMAT



**PERSONAL INFORMATION**

Name

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Nationality

Italian

Date of birth

**WORK EXPERIENCE**

• Dates

2002-up to now

• Name and address of employer

Department of Veterinary Medical Sciences, *Alma Mater Studiorum* University of Bologna

• Type of business or sector

Research

• Occupation or position held

Researcher

• Main activities and responsibilities

Parasitology and parasitic diseases of animals, molecular studies on parasites of fish and other animals

• Dates

2004-up to now

• Name and address of employer

Department of Veterinary Medical Sciences, *Alma Mater Studiorum* University of Bologna

• Type of business or sector

Teaching

• Occupation or position held

Teaching activities at University of Bologna, degree in:

Veterinary Medicine

Biotechnologies

Aquaculture and Fish Production Hygiene

Biomedical Laboratory Techniques

• Main activities and responsibilities

Professional Practical Training in Parasitic Diseases,  
General Parasitology and Diagnostics of Parasitic Diseases,  
Transmissible Diseases of Marine Mammals,  
Parasitology and Parasitic Diseases in Veterinary Medicine

**RESEARCH ACTIVITIES**

• Dates

2002-up to now

• Name and address of employer

Department of Veterinary Medical Sciences, *Alma Mater Studiorum* University of Bologna

• Type of business or sector

Research activities

• Occupation or position held

Researcher

• Main activities and responsibilities

Epidemiological surveys of helminthic zoonoses in marine and freshwater fish with reference to the families Diphylobothridae, Opisthorchidae, Anisakidae.  
Studies of major parasitic diseases in aquatic animals both wild and farmed and definition of their pathogenic effects on the host.  
Studies on life cycle and epidemiology of Myxozoa and Microspora parasites of freshwater and marine fish.  
Study of mycobacterial fish in relation to animal health and zoonoses implications.  
Morphological and molecular studies on Clinostomidae.

• Dates

2015-up to now

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| <ul style="list-style-type: none"> <li>• <b>Name and address of employer</b></li> <li>• <b>Type of business or sector</b></li> <li>• <b>Occupation or position held</b> <ul style="list-style-type: none"> <li>• <b>Main activities and responsibilities</b></li> </ul> </li> </ul>  | <p>Department of Veterinary Medical Sciences, Alma Mater Studiorum University of Bologna</p> <p>Research activities in the following Eu H2020 project</p> <p>Researcher</p> <p>H2020-SFS-2014-2: "Advanced Tools and Research Strategies for Parasite Control in European farmed fish" (acronym ParaFishControl) (Grant agreement no: 634429). She is involved as task leader within WP4 - Diagnostic tools and methods, aimed to design diagnostic tools, markers and tests for quantitative identification and discrimination of parasite genotype and phenotype presenting potentially different management and risk assessment implication, in fish and in the environment. She is also involved in validation of reference molecular diagnostic methods. (Project coordinator dr. Ariadna Sitjà-Bobadilla, CSIC, Spagna) (2015-2020).</p> <p>H2020 "Consumer driven production: integrating innovative approaches for competitive and sustainable performance across the Mediterranean aquaculture value chain" (acronym PerformrFISH) (Grant agreement no. 727610) Project coordinator prof. Katerina Moutou, University of Thessaly, Grecia, by the European Union (HORIZON 2020) (2017-2022).</p> <p>H2020 "New technologies Tools and Strategies for a Sustainable, Resilient and Innovative European Aquaculture" (acronym NewTechAqua) (grant agreement No 862658) Project coordinator prof. Alessio Bonaldo UNIBO (HORIZON 2020) (2020-2025).</p> |
| <p style="text-align: center;"><b>EDUCATION AND TRAINING</b></p> <ul style="list-style-type: none"> <li>• <b>Dates</b></li> <li>• <b>Name and type of organization providing education and training</b></li> <li>• <b>Principal subjects/occupational skills covered</b></li> <li>• <b>Title of qualification awarded</b></li> </ul><br><ul style="list-style-type: none"> <li>• <b>Dates</b></li> <li>• <b>Name and type of organization providing education and training</b></li> <li>• <b>Principal subjects/occupational skills covered</b></li> <li>• <b>Title of qualification awarded</b></li> </ul><br><ul style="list-style-type: none"> <li>• <b>Dates</b></li> <li>• <b>Name and type of organization providing education and training</b></li> <li>• <b>Principal subjects/occupational skills covered</b></li> <li>• <b>Title of qualification awarded</b></li> </ul><br><ul style="list-style-type: none"> <li>• <b>Dates</b></li> <li>• <b>Name and type of organization providing education and training</b></li> <li>• <b>Principal subjects/occupational skills covered</b></li> <li>• <b>Title of qualification awarded</b></li> </ul><br><ul style="list-style-type: none"> <li>• <b>Dates</b></li> <li>• <b>Name and type of organization providing education and training</b></li> <li>• <b>Principal subjects/occupational skills covered</b></li> <li>• <b>Title of qualification awarded</b></li> </ul> | <p>11-12/06/2019</p> <p>Università dell'Insubria</p> <p>Theoretical/practical Course on NGS data Analyses</p> <p>Certificate of attendance.</p><br><p>08/05/2016 to 19/05/2016</p> <p>EMBO (European Molecular Biology Organization) and HITS gGmbH (Heidelberg Institute for theoretical Studies) Institute of Marine Biology, Biotechnology and Aquaculture (IMBBC) of the Hellenic Centre for Marine Research (HCMR), Heraklion, Crete, Greece.</p> <p>EMBO Practical Course "Computational Molecular Evolution" (3 ECTS credits)</p> <p>Certificate of attendance.</p><br><p>07/06/2010 to 11/06/2010</p> <p>Dipartimento di Scienze Biomediche e Cliniche "L. Sacco" Via GB Grassi, 74 - 20157 Milano</p> <p>Theoretical/practical course on phylogenesis and molecular evolution of infectious agents</p> <p>Certificate of attendance.</p><br><p>22/03/2009 to 26/03/2009</p> <p>HelmholtzZentrum munchen, German Research Center for Environmental Health</p> <p>9<sup>th</sup> Bioinformatics and system biology for molecular biologists</p> <p>Certificate of attendance.</p><br><p>October 2005 to February 2006</p> <p>Consejo Superior de Investigaciones Cientificas (CSIC), Instituto de Acuicultura de Torre de la Sal, Ribera de Cabanes – Castellon – España</p>   |

- Principal subjects/occupational skills covered Genetic characterization and phylogeny of myxozoan parasites affecting Mediterranean aquaculture
- Title of qualification awarded Certificate of attendance as visiting researcher.
- Dates January 2004 to June 2004
- Name and type of organization providing education and training Faculty of Biotechnology, University of Urbino
- Principal subjects/occupational skills covered First level Master in Biotechnology
- Title of qualification awarded First level Master degree in Biotechnology
- Dates 20/09/2004 to 24/09/2004
- Name and type of organization providing education and training Istituto Superiore di Sanità and INMI L. Spallanzani (Rome)
- Principal subjects/occupational skills covered Fundamental of Bioinformatics
- Title of qualification awarded Certificate of attendance
- Dates 1996-1999
- Name and type of organization providing education and training Faculty of Veterinary Medicine, University of Turin
- Principal subjects/occupational skills covered Research on parasites and fungi in imported ornamental fish
- Title of qualification awarded Ph.D. in Epizootology, Epidemiology and Chemotherapy of Parasitic Diseases (25/02/2000)
- Dates February 1999 to August 1999
- Name and type of organization providing education and training School of Veterinary Medicine, Department of Medicine and Epidemiology, University of California, Davis (USA)
- Principal subjects/occupational skills covered Study on Proliferative Kidney Diseases and Whirling Diseases of salmonids, by PCR and *in situ* hybridization.
- Title of qualification awarded Certificate of attendance as visiting Ph.D. Student.
- Dates 1996
- Name and type of organization providing education and training Faculty of Veterinary Medicine, University of Bologna
- Principal subjects/occupational skills covered Dermatophytosis in cattle
- Title of qualification awarded Degree in Veterinary Medicine

**PERSONAL SKILLS  
AND COMPETENCES**

Mother tongue  
Other languages

Italian

- Reading skills
- Writing skills
- Verbal skills

English  
good  
good  
good

Spanish  
good  
good  
good

**SOCIAL SKILLS  
AND COMPETENCES**

Good interpersonal skills, ability to adapt to any situation, ability to work in a team and to interact with people, ability to work independently, education and personal training of undergraduate students in the lab.

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| ORGANIZATIONAL SKILLS<br>AND COMPETENCES | Sense of organization, ability to work under stress, ability to prepare scientific paper, presentations and posters for scientific audiences   |
| TECHNICAL SKILLS<br>AND COMPETENCES      | Extensive experience in fish parasites diagnosis using both traditional and molecular tools. Use of molecular techniques applied to identification of fish parasite. Use of bioinformatics tools for sequences and phylogenetic analysis (VectorNTI, Bioedit, Mega). |
| OTHER SKILLS<br>AND COMPETENCES          | Good knowledge of Microsoft Office tools, such as Word, Excel, PowerPoint.<br>Intermediate knowledge on Unix/Linux command-line environment  |
| <b>ANNEX 1</b>                           | Publications in journal with impact factor   |

Ozzano Emilia (BO), 17/07/2020

  
Monica Caffara

1. Caffara M., Scagliarini A. (1999). Study of diseases of the grey squirrel (*Sciurus carolinensis*) in Italy. First isolation of the dermatophyte *Microsporum cookei*. *Journal of Medical Mycology* 37: 75-77.
2. Caffara M., Marcer F., Florio D., Quaglio F., Fioravanti M.L. (2003). *Henneguya* sp. (Myxozoa, Myxosporea) in gilthead sea bream (*Sparus aurata*) cultured in Italy. *Bulletin European Association Fish Pathologist*, 23 (3): 108-112.
3. Fioravanti M.L., Caffara M., Florio D., Gustinelli A., Marcer F. (2004). *Sphaerospora dicentrarchi* and *S. testicularis* (Myxozoa, Sphaerosporidae) in European sea bass (*Dicentrarchus labrax*) farmed in Italy". *Folia Parasitologica*, 51: 208-210.
4. Taticchi M.I., Gustinelli A., Fioravanti M.L., Caffara M., Pieroni G., Prearo M. (2004). Is the worm-like organism found in the statoblasts of *Plumatella fungosa* (Bryozoa, Phylactolaemata) the vermiform phase of *Tetracapsuloides bryosalmonae* (Myxozoa, Malacospora)? *Italian Journal of Zoology*, 71: 143-146.
5. Caffara M., De Vita V., Florio D., Gustinelli A., Quaglio F., Fioravanti M.L. (2007). Infections due to *Unicauda* spp. (Myxozoa, Myxobolidae) in elephantnose fish (*Gnathonemus petersii*) imported to Italy. *Bulletin European Association Fish Pathologist*, 27 (4): 142-147.
6. Caffara M., Raimondi E., Florio D., Marcer F., Quaglio F., Fioravanti M.L. (2009). The life cycle of *Myxobolus lentisuturalis* (Myxozoa: Myxobolidae), from goldfish (*Carassius auratus auratus*) involves a raabeia-type actinospore. *Folia Parasitologica*, 56: 6-12.
7. Marcucci C., Caffara M., Goretti E. (2009). Occurrence of actinosporean stages (Myxozoa) in the Nera River system (Umbria, central Italy). *Parasitology Research*, 105: 1517-1530.
8. Gustinelli A., Caffara M., Florio D., Otachi E.O., Wathuta E.M., Fioravanti M.L. (2010). First description of the adult stage of *Clinostomum cutaneum* Paperna, 1964 (Digenea: Clinostomidae) from grey herons *Ardea cinerea* L. and a redescription of the metacercaria from the Nile tilapia *Oreochromis niloticus niloticus* (L.) in Kenya. *Systematic Parasitology*, 76: 39-51.
9. Caffara M., Quaglio F., Marcer F., Florio D., Fioravanti M.L. (2010). Intestinal microsporidiosis in European seabass (*Dicentrarchus labrax* L.) farmed in Italy. *Bulletin of the European Association of Fish Pathologists*, 30: 237-240.
10. Bernardi C., Gustinelli A., Fioravanti M.L., Caffara M., Mattiucci S., Cattaneo P. (2011). Prevalence and mean intensity of *Anisakis simplex* (*sensu stricto*) in European sea bass (*Dicentrarchus labrax*) from Northeast Atlantic Ocean. *International Journal of Food Microbiology*, 148: 55-59.
11. Caffara M., Locke S.A., Gustinelli A., Marcogliese D.J., Fioravanti M.L. (2011). Morphological and molecular differentiation of *Clinostomum complanatum* and *Clinostomum marginatum* (Digenea: Clinostomidae) metacercariae and adults. *Journal of Parasitology*, 97 (5): 884-891.
12. Bovo, G., Gustinelli, A., Quaglio, F., Gobbo, F., Panzarin, V., Fusaro, A., Mutinelli, F., Caffara, M., Fioravanti, M.L. (2011). Viral encephalopathy and retinopathy outbreak in freshwater fish farmed in Italy. *Diseases of Aquatic Organisms*, 96: 45-54
13. Caffara M., Piva S., Pallaver F., Iacono E., Galuppi R. (2013). Molecular characterization of *Cryptosporidium* spp. from foals in Italy. *The Veterinary Journal*, 198: 531-533.
14. Bartošová P., Fiala I., Jirků M., Cinková M., Caffara M., Fioravanti M.L., Atkinson S.D., Bartholomew J.L., Holzer A.S. (2013). *Sphaerospora sensu stricto*: Taxonomy, diversity and evolution of a unique lineage of myxosporeans (Myxozoa). *Molecular Phylogenetics and Evolution*, 68: 93-105.
15. Antuofermo E., Pais A., Nuvoli S., Hetzel U., Burrai G.P., Rocca S., Caffara M., Giorgi I., Pedron C., Prearo M. (2014). *Mycobacterium chelonae* associated with tumor-like skin and oral masses in farmed Russian sturgeons (*Acipenser gueldenstaedtii*). *BMC Veterinary Research*, 10 (18): 1-9.
16. Favaro L., Scanzio T., Varello K., Caffara M., Righetti M., Bozzetta E., Prearo M. (2014). Mixed mycobacterial infection in an adult koi carp *Cyprinus carpio* L. *Journal of Fish Diseases*, 37: 753-755.
17. Righetti M., Favaro L., Antuofermo E., Caffara M., Nuvoli S., Scanzio T., Prearo M. (2014). *Mycobacterium salmoniphilum* infection in a farmed Russian sturgeon, *Acipenser gueldenstaedtii* (Brandt & Ratzeburg). *Journal of Fish Diseases*, 37: 671-674
18. Caffara M., Davidovich N., Falk R., Smirnov M., Ofek T., Cummings D., Gustinelli A., Fioravanti M.L. (2014). Redescription of *Clinostomum phalacrocoracis* metacercariae (Digenea: Clinostomidae) in cichlids from Lake Kinneret, Israel. *Parasite*, 21 (32): 1-6.
19. Caffara M., Bruni G., Paoletti C., Gustinelli A., Fioravanti M.L. (2014). Metacercariae of *Clinostomum complanatum* (Trematoda: Digenea) in European newts *Triturus carnifex* and *Lissotriton vulgaris* (Caudata: Salamandridae). *Journal of Helminthology*, 88: 278-285.
20. Pinto H.A., Caffara M., Fioravanti M.L., de Melo A.L. (2015). Experimental and molecular study of cercariae of *Clinostomum* sp. (Trematoda: Clinostomidae) from *Biomphalaria* spp. (Mollusca: Planorbidae) in Brazil. *Journal of Parasitology*, 101: 108-113.

21. Galuppi R., Piva S., Castagnetti C., Iacono E., Tanel S., Pallaver F., Fioravanti M.L., Zaroni R.G., Tampieri M.P., Caffara M. (2015). Epidemiological survey on *Cryptosporidium* in an Equine Perinatology Unit. *Veterinary Parasitology*, 210: 10-18.
22. Locke S.A., Caffara M., Marcogliese D.J., Fioravanti M.L. (2015). A large-scale molecular survey of *Clinostomum* (Digenea, Clinostomidae). *Zoologica Scripta*, 44: 203-217.
23. Locke S.A., Al-Nasiri F.S., Caffara M., Drago F., Kalbe M., Lapiere A.R., McLaughlin J.D., Nie P., Overstreet R.M., Souza G.T.R., Takemoto R.M., Marcogliese D.J. (2015). Diversity, specificity and speciation in larval Diplostomidae (Platyhelminthes: Digenea) in the eyes of freshwater fish, as revealed by DNA barcodes. *International Journal for Parasitology*, doi:10.1016/j.ijpara.2015.07.001.
24. Quaglio, F., Perolo, A., Bronzatti, P., Gustinelli, A., Menconi, V., Cavazza, G., Caffara, M., Manfrin, A., Gallo, E., Fioravanti, M.L. (2016). Nodular gill disease in farmed rainbow trout (*Oncorhynchus mykiss*) in Italy. *Journal of Fish Diseases*, 39: 1139-1142.
25. Gaglio, G., Reina, V., Caffara, M., Gjurcovic, E., Iaria, C., Marino, F. (2016). Risk of introduction of *Clinostomum complanatum* (Digenea: Clinostomidae) to Sicily through use of *Cobitis bilineata* (Canestrini, 1865) as live baits. *Bulletin of the European Association of Fish Pathologists*, 36: 105-110.
26. Acosta A.A., Caffara M., Fioravanti M.L., Utsunomia R., Zago A.C., Franceschini L., da Silva R.J. (2016). Morphological and molecular characterization of *Clinostomum detruncatum* (Trematoda: Clinostomidae) metacercariae infecting *Synbranchus marmoratus*. *Journal of Parasitology*. Accepted in press.
27. Caffara M., Locke S.A., Cristanini C., Davidovich N., Markovich M.P., Fioravanti M.L. (2016). A combined morphometric and molecular approach to identifying metacercariae of *Euclinostomum heterostomum* (Digenea: Clinostomidae). *Journal of Parasitology*, 102: 239-248.
28. Galuppi R., Piva S., Castagnetti C., Sarli G., Iacono E., Fioravanti M.L., Caffara M. (2016). *Cryptosporidium parvum*: From foal to veterinary students. *Veterinary Parasitology*, 219: 53-56.
29. Piva S., Caffara M., Pasquali F., Castagnetti C., Iacono E., Massella E., Zaroni R.G., Galuppi R. (2016). Detection and quantification of *Cryptosporidium* oocysts in environmental surfaces of an Equine Perinatology Unit. *Preventive Veterinary Medicine*, 131: 67-74.
30. Gustinelli A., Menconi V., Prearo M., Caffara M., Righetti M., Scanzio T., Raglio A., Fioravanti M.L. (2016). Prevalence of *Diphyllobothrium latum* (Cestoda: Diphyllobothriidae) plerocercoids in fish species from four Italian lakes and risk for the consumers. *International Journal of Food Microbiology*, 235: 109-112.
31. Caffara M., Serracca L., Gustinelli, A., Vencia, W., Rossini, I., Prearo, M., Fioravanti, M.L. (2017). Development and validation of species-specific molecular diagnostic tool for *Opisthorchis felineus* (Digenea, Opisthorchiidae) metacercariae. *International Journal of Food Microbiology*. 242: 98-100.
32. Caffara, M., Locke, S.A., Echi, P.C., Halajian, A., Benini, D., Luus-Powell, W.J., Tavakol, S., Fioravanti, M.L. (2017). A morphological and molecular study of Clinostomid metacercariae from African fish with a redescription of *Clinostomum tilapiae*. *Parasitology*, 144, 1519–1529.
33. Cavallero, S., Bruno, A., Arletti, E., Caffara, M., Fioravanti, M.L., Costa, A., Cammilleri, G., Graci, S., Ferrantelli, V., D'Amelio, S. (2017). Validation of a commercial kit aimed to the detection of pathogenic anisakid nematodes in fish products. *International Journal of Food Microbiology*, 257: 75-79.
34. Lanci A., Mariella J., Iacono E., Caffara M., Piva S., Galuppi R., Castagnetti C. (2018). Observational Study on Cryptosporidiosis in an Equine Perinatology Unit. *Journal of Equine Veterinary Science*, 71: 51-56
35. Tedesco, P., Gustinelli, A., Caffara, M., Patarnello, P., Terlizzi, A., Fioravanti, M.L. (2018). *Hysterothylacium fabri* (Nematoda: Raphidascarididae) in *Mullus surmuletus* (Perciformes: Mullidae) and *Uranoscopus scaber* (Perciformes: Uranoscopidae) from the Mediterranean. *Journal of Parasitology*, 104: 262-274
36. Locke, S.A., Van Dam, A., Caffara, M., Pinto, H.A., López-Hernández, D., Blañar, C.A. (2018). Validity of the Diplostomoidea and Diplostomida (Digenea, Platyhelminthes) upheld in phylogenomic analysis. *International Journal for Parasitology*, 48: 1043-1059.
37. Caffara, M., Locke, S.A., Halajian, A., Luus-Powell, W.J., Benini, D., Tedesco, P., Kasembele, G.K., Fioravanti, M.L. (2019). Molecular data show *Clinostomoides* Dollfus, 1950 is a junior synonym of *Clinostomum* Leidy, 1856, with redescription of metacercariae of *Clinostomum brienii* n. comb. *Parasitology*, 146: 805-813.
38. Ahmed N.H., Caffara M., Sitjà-Bobadilla A., Fioravanti M.L., Mazzone A., Aboulezz A.S., Metwally A.M., Omar M.A., Palenzuela O.R. (2019). Detection of the intranuclear microsporidian *Enterospora nucleophila* in gilthead sea bream by *in situ* hybridization. *Journal of Fish Diseases*, 42: 809-815.
39. Locke S.A., Caffara M., Barčák D., Sonko P., Tedesco P., Fioravanti M.L., Li W. (2019). A new species of *Clinostomum* Leidy, 1856 in East Asia based on genomic and morphological data. *Parasitology Research* 118: 3253-3265. Doi: 10.1007/s00436-019-06536-y.
40. Mazzone A., Caffara M., Gustinelli A., Agnetti F., Sgariglia E., Lo Vaglio G., Quaglio F., Fioravanti M.L. (2019). Morphological and molecular characterization of larval and adult stages of *Eustrongylides excisus* (Nematoda: Dioctophymatoidea) with histopathological observations. *Journal of Parasitology* 105: 882-

889. doi.org/10.1645/19-44.

41. Caffara M., Locke S.A., Echi P.E., Halajian A., Luus-Powell W.J., Benini D., Tedesco P., Fioravanti M.L. (2020). A new species of *Clinostomum* Leidy, 1856 based on molecular and morphological analysis of metacercariae from African siluriform fishes. *Parasitology Research* doi.org/10.1007/s00436-019-06586-2.
42. Volpe, E., Gustinelli, A., Caffara, M., Errani, F., Quaglio, F., Fioravanti, M.L., Ciulli, S. (2020). Viral nervous necrosis outbreaks caused by the RGNNV/SJNNV reassortant betanodavirus in gilthead sea bream (*Sparus aurata*) and European sea bass (*Dicentrarchus labrax*). *Aquaculture*, 523: 735155.
43. Caffara, M., Gustinelli, A., Mazzone, A., Fioravanti, M.L. (2020). Multiplex PCR for simultaneous identification of the most common European Opisthorchiid and Heterophyid in fish or fish products. *Food and Waterborne Parasitology*. e00081. <https://doi.org/10.1016/j.fawpar.2020.e00081>.

Data 17/06/2020



Monica Caffara  
Il/La dichiarante<sup>1</sup>

(Firma per esteso e leggibile)