

CURRICULUM VITAE OF ANDREA GUSTINELLI

Date of birth: 1978, Italy

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Current position: permanent position as Technician at the Department of Veterinary Medical Sciences, University of Bologna, Italy - S.D.S. VET/06

EDUCATION

A.Y. 2001/02 : degree in Veterinary Medicine at the Bologna University with 100/110

2002 : qualification at the veterinary profession.

2006: Master-equivalent Aqualabs on "Aquatic Animal Disease Diagnostics" at the Institute of Aquaculture, University of Stirling (UK)

A.Y. 2007/08: PhD in "Epidemiology and control of zoonoses" at the Department of Veterinary Public Health and Animal Pathology, University of Bologna.

A.Y. 2010/11: Post-graduate School on "Animal Health and Livestock" at the University of Bologna

PROFESSIONAL EXPERIENCE

July 2002 – December 2004: Work Contract on "Epidemiological survey on Proliferative Kidney Disease and evaluation of diagnostic methods in fish and alternate hosts" at the Department of Veterinary Public Health and Animal Pathology, University of Bologna.

2006: Fish pathologist consultant on ornamental fish diseases at Val Bacchetti Farm, Bologna, Italy.

2007: Scholarship holder on "Control of parasitic diseases affecting sharp snout sea bream (*Diplodus puntazzo*) mariculture in Italy" at the Department of Veterinary Public Health and Animal Pathology, University of Bologna

March 2008 - March 2009: Scholarship holder on "Sanitary aspects evaluation in autochthonous mussels production" at the same Department

March 2009 - June 2009: Scholarship holder on "Veterinary and Public Health aspects in cage system farmed tilapia in Eastern Africa" at the same Department

July 2009 - July 2010: Scholarship holder on "Setting up of methods aimed to morphological and molecular identification of freshwater fish parasites" at the Department of Veterinary Medical Sciences (ex Department of Veterinary Public Health and Animal Pathology), University of Bologna

From 2010 to July 2012: Research scholarship holder concerning "Survey on zoonotic parasites in Italian freshwater fish" at the Department of Veterinary Medical Sciences, University of Bologna.

TEACHING ACTIVITIES

Since 2008 he has taught, as expert, in several national vocational trainings and post-graduate schools taking theoretical and practical lessons on fish pathology, parasitology and fish-borne zoonoses.

In 2010 he got a contract for assistance to the practical lectures of the teaching course in Parasitic Diseases of Aquatic Animals (degree course in Aquaculture and Hygiene of Fish Productions, Faculty of Veterinary Medicine, Bologna University).

In May 2011 he taught “Fish parasites and diseases” within an international course on Module ESL8 – Fisheries and aquaculture in the framework of the International Master School in Environmental Sciences: Limnology and Wetland Ecosystems (LWE), Kenyan trimester, Egerton University, Kenya.

RESEARCH ACTIVITIES

Since 2002 till now: research activities on pathology of aquatic animals and parasitic zoonoses, with particular attention to parasitic and bacterial pathogens of fish imported or produced in Italy; characterization of the parasitic fauna of aquatic animals resident (both wild and farmed) in Italian territory; study of the pathogenic effects of parasites in farmed marine fish; veterinary and public health aspects linked to aquaculture in Eastern Africa; epidemiology of fish-borne parasitic zoonoses (diphyllobothriasis, anisakiasis and opistorchiasis).

Furthermore he has been involved in researches on other parasitic zoonoses such as *Dirofilariasis* and *Tungiasis*.

Co-author in over 150 scientific papers and communications to national and international conferences, all concerning parasitology of aquatic animals, fish pathology and parasitic zoonoses.

RESEARCH PROJECTS

He has been involved as collaborator in the working groups of the following research projects: “Multidisciplinary approach to parasitic diseases in aquaculture: from aetiological agent to environmental interaction” (Led by Prof. Paggi, “La Sapienza” University, Rome), funded by Italian Ministry of Instruction, University and Research (ex-40% co-financed projects) (2003-2005).

“Study of Myxosporidiosis and characterisation of natural and alternate hosts of Myxozoa parasites” (Main project: “Multidisciplinary approach to parasitic diseases in aquaculture: from aetiological agent to environmental interaction”). Funded by Italian Ministry of Instruction, University and Research (2004- 2006). “Control of parasitic diseases limiting the production of sharpnose seabream (*Diplodus puntazzo*) in order to diversify production in mariculture” (Led by Dr. Santamaria, Maricoltura Mattinata), funded by Puglia Regional Operating Plan (POR) (2006-2007).

“Production, protection and enhancement of native molluscs” (Led by Prof. Crescenzo, Bari University); funded by Puglia Regional Operating Plan (POR) (2006-2007).

“Integrating BOMOSA cage fish farming system in reservoirs, ponds and temporary water bodies in Eastern Africa”. EU INCO-DEV, Project coordinator: Prof. Herwig Waidbacher, Universität für Bodenkultur Vienna (1 October 2006-30 September 2009). Funded by the European Union (Sixth Framework Programme) (2006-2009).

“Development of diagnostic methods useful to detect and identify zoonotic parasites in lake fish” (headed by Dr. Ghittino, Terni State Veterinary Institute), funded by Italian Ministry of Health (2007-2009).

Research projects financed by Italian Ministry of Agriculture and Forestry on Proliferative Kidney Disease of Salmonids by *Tetracapsuloides bryosalmonae* (Led by Dr. Prearo, State Veterinary Institute of Turin). “Development of diagnostic methods useful to identify zoonotic parasites or covered by the OIE list: research on *Diphyllobothrium latum* and *Gyrodactylus salaris*” and “Zoonotic transmission of Anisakid nematodes from fish products to man: GIS application and molecular epidemiology for risk evaluation” (Led by Dr. Prearo, State Veterinary Institute of Turin) funded by the Italian Ministry of Health (2008-2010).

“Survey of reared bluefin tuna health” within the Strategic Project “Organization of a comprehensive system of bluefin tuna farming - ALLOTUNA” funded by Puglia Regional Operating Plan (POR) and coordinated by Prof. De Metrio, Bari University (2009-2010).

“Zoonotic transmission of Anisakid nematodes from fish products to man: GIS application and molecular epidemiology for risk evaluation”. Research agreement funded by Italian Ministry of Health (2010-2011).

"Zoonotic transmission of Anisakid nematodes from fish products to man: GIS application and molecular epidemiology for risk evaluation" (Led by Dr. Prearo State Veterinary Institute of Turin). Research agreement funded by Italian Ministry of Health (2010-2011).

"Zoonotic helminths from Italian freshwater fish" within the national Project "Molecular characterization and epidemiology of fish-borne zoonoses by parasitic helminths in Italian fish resources: defining parameters for evaluating infection risk to humans" (Coordinator: Dr. Mattiucci, University "La Sapienza", Roma), financed by MIUR - PRIN08 (2010-2012).

MEMBERSHIP IN SCIENTIFIC SOCIETIES

Italian Society of Parasitology (SOIPA)

Italian Society of Fish Pathology (SIPI) (from 2010 in the Board)

Italian Society of Marine Biology (SIBM)

LIST OF PAPERS PUBLISHED BY ANDREA GUSTINELLI IN JOURNALS WITH IMPACT FACTOR

1. Pampiglione S., Trentini M., Fioravanti M.L., Gustinelli A. (2004). Differential diagnosis between *Tunga penetrans* (L., 1758) and *T. trimamillata* Pampiglione et al., 2002 (Insecta, Siphonaptera), the two species of the genus *Tunga* parasitic in man. *Parasite*, 11 (1): 51-57.
2. 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, Malacosporae)? *Italian Journal of Zoology*, 71: 143-146.
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 (2/3): 208-210.
4. Pampiglione S., Fioravanti M.L., Gustinelli A., Onore G., Rivasi F., Trentini M. (2005). Anatomy of *Tunga trimamillata* (Insecta, Siphonaptera, Tungidae) and developmental phases of the gravid female. *Parasite*. 12: 241-250.
5. Pampiglione S., Orihel T.C., Gustinelli A., Gatzemeier W., Villani L. (2005). An unusual parasitological finding in a subcutaneous mammary nodule. *Pathology - Research and Practice*. 201: 475-478.
6. Fioravanti M.L., Gustinelli A., Onore G., Pampiglione S., Trentini M. (2006). Presence of *Tunga trimamillata* (Insecta, Siphonaptera) in Peru. *Parasite*, 13 (1): 85-86.
7. Fioravanti M.L., Caffara M., Florio D., Gustinelli A., Marcer F. (2006). A parasitological survey of European sea bass (*Dicentrarchus labrax*) and gilthead sea bream (*Sparus aurata*) cultured in Italy. *Veterinary Research Communications*, 30 (Suppl. 1): 249-252.
8. Kuchta R., Vlčková R., Poddubnaya L.G., Gustinelli A., Dzika E., Scholz T. (2007). Invalidity of three Palaearctic species of *Triaenophorus* tapeworms (Cestoda: Pseudophyllidae): evidence from morphometric analysis of scolex hooks. *Folia Parasitologica*, 54 (1): 34-42.
9. Preziosi R, Diana A, Florio D, Gustinelli A., Nardini G. (2007). Osteitis deformans (Paget's disease) in a Burmese python (*Python molurus bivittatus*) - A case report. *Veterinary Journal*. 174(3): 669-672.
10. Caffara M., De Vita V., Florio D., Gustinelli A., Quaglio F., Fioravanti M.L. (2007). Infection due to *Unicauda* spp. (Myxozoa, Myxobolidae) in elephantnose fish (*Gnathonemus petersii*) imported to Italy. *Bulletin of European Association of Fish Pathologists*, 27 (4): 142-147.
11. Kuchta R., Scholz T., Brabec J, Jirsová D., Gustinelli A. (2008). Bothriocephalidean tapeworms (Cestoda) from the blackfish, *Centrolophus niger* (Perciformes: Centrolophidae). *Folia Parasitologica*, 55: 111-121.
12. Abdel-Rahman S.M., Mahmoud A.E., Galal L.A.A., Gustinelli A., Pampiglione S. (2008). Three new cases of human infection with *Dirofilaria repens*, one pulmonary and two subcutaneous, in the Egyptian governorate of Assiut. *Annals of Tropical Medicine and Parasitology*, 102(6): 499-507.
13. Pampiglione S., Gustinelli A. (2008). Human hepatic capillariasis: a second case occurred in Korea. *Journal of Korean Medical Science*, 23: 560-561.
14. Pampiglione S., Rivasi F., Gustinelli A. (2009). Dirofilarial human cases in the Old World, attributed to *Dirofilaria immitis*: a critical analysis. *Histopathology*. 54: 192-204
15. Wicht B., Gustinelli A., Fioravanti M., Invernizzi S, Peduzzi R. (2009). Prevalence of the broad tapeworm *Diphyllobothrium latum* in perch (*Perca fluviatilis*) and analysis of abiotic factors influencing its occurrence in Lake Lario (Como, Italy). *Bulletin of European Association of Fish Pathologists*, 29 (2): 55-61.
16. Pampiglione S., Fioravanti M.L., Gustinelli A., Onore G., Mantovani B., Luchetti A., Trentini M. (2009). Sand Flea (*Tunga* spp.) infections in humans and domestic animals: state of the art. *Journal of Medical and Veterinary Entomology*, 23: 172-186.

17. Paladini G., Gustinelli A., Fioravanti M.L., Hansen H., Shinn A.P. (2009). The first report of *Gyrodactylus salaris* Malmberg 1957 (Platyhelminthes, Monogenea) on Italian cultured stocks of rainbow trout (*Oncorhynchus mykiss* Walbaum). *Veterinary Parasitology*, 165: 290-297.
18. Merella P., Cherchi S., Garippa G., Fioravanti M.L., Gustinelli A., Salati F. (2009). Outbreak of *Sciaenacotyle panceri* (Monogenea) on cage-reared meagre *Argyrosomus regius* (Osteichthyes) from the western Mediterranean Sea. *Diseases of Aquatic Organisms*, 86: 169-173.
19. 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(1): 39-51.
20. 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.
21. 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: 155-159.
22. Quaglio F., Capovilla P., Fioravanti M.L., Marino F., Gaglio G., Florio D., Fioretto B., Gustinelli A. (2011). Histological analysis of thelohianiasis in white-clawed crayfish *Austropotamobius pallipes* complex. *Knowledge and Management of Aquatic Ecosystems*, 401: 27p1-27p11.
23. Caffara M., Locke S., 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
24. Otranto D., Dantas-Torres F., Cebeci Z., Yeniad B., Buyukbabani N., Boral O.B., Gustinelli A., Mounir T., Mutafchiev Y., Bain O. (2012). Human ocular filariasis: further evidence on the zoonotic role of *Onchocerca lupi*. *Parasites & Vectors*, 5: 84.
- Carella F., Culurgioni J., Aceto S., Fichi G., Pretto T., Luise D., Gustinelli A., De Vico G. (2013). *Postmonorchis* sp. inq. (Digenea: Monorchidae) metacercariae infecting natural beds of wedge clam *Donax trunculus* in Italy. *Diseases of Aquatic Organisms*, 106: 163-172.
25. Caffara M., Bruni G., Paoletti C., Gustinelli A., Fioravanti M.L. (2013). Metacercariae of *Clinostomum complanatum* (Trematoda: Digenea) in European newts *Triturus carnifex* and *Lissotriton vulgaris* (Caudata: Salamandridae). *Journal of Helminthology*, In press.

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