

PERSONAL
INFORMATION**Paolo Roberto Saraceni****Ph.D. in Advanced Biotechnology**

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Sex: male | Date of birth: 03/07/1983 | Nationality: Italian

WORK EXPERIENCE

05/07/2023-present

Researcher

ENEA, National Agency for New Technologies, Energy and Sustainable Economic Development, Division Health Protection Technologies
(Head: Dr. Maria Teresa Mancuso), Rome, Italy.

Innovation and research activities in the field of biotechnology, sustainability, radiation biology and toxicology, with applications on biomedicine industrial development, and human health protection.

16/06/2021–30/06/2023

Postdoc researcher

University of Tuscia, Animal Biotechnologies Unit
(Head: Prof. Giuseppe Scapigliati), Viterbo, Italy.

“SEED TALENT” Unitus Grant, project title: Evaluation of the physiological impacts of nanoplastics on the sea bass *Dicentrarchus labrax*, a commercially relevant fish species. *In vitro* toxicological assessment of nanoplastics on two *D. labrax* continuous cell lines: DLEC and DLB-1 cells.

European Union’s Horizon 2020 research and innovation programme, “ALPHEUS” project: Augmenting grid stability through low head pumped hydro energy utilization & storage. Evaluation of the impact of hydro power installations on fish health by molecular analysis.

01/09/2020–30/04/2021

Postdoc researcher

University of Tuscia, Animal Biotechnologies Unit
(Head: Prof. Giuseppe Scapigliati), Viterbo, Italy.

European Maritime and Fisheries Fund, “NANOISCES” project: Assessment of nanoplastics impact on valuable fish species” .

European Maritime and Fisheries Fund, “ISCES” project: Fish-plastics, alien species and physiology. Study of the effects of marine litter pollution, in particular microplastics toxicity, on Mediterranean fish species health. *Ex vivo* cytotoxicity study on primary fish cell cultures.

01/12/2018–30/05/2020

Postdoc researcher

University of Tuscia, Animal Biotechnologies Unit
(Head: Prof. Giuseppe Scapigliati), Viterbo, Italy.

Minister of Education, University and Research - CNR, “PRONAT” project: identification of bioactive molecules from animal samples.

Curriculum vitae

- 13/04/2015–13/05/2015 **Internship**
Pasteur Institute - CNRS (National Centre for Scientific Research of France), laboratory of Development of Immunity and Stem Cell Biology (Head: Dr. Philippe Herbomel), Paris, France.
Confocal microscopy analysis of intestinal innate immune responses of zebrafish transgenic larvae infected with the bacteria *Aeromonas hydrophila*.
- 22/07/2013–09/08/2013 **Internship**
University of Montpellier 2 - CNRS (National Centre for Scientific Research of France), laboratory of Immunity Evolution (Head: Dr. George Lutfalla), Montpellier, France.
Fluorescence microscopy characterization of zebrafish embryos inflammation microinjected with the bacteria *Aeromonas hydrophila*.
- 16/05/2012–15/05/2015 **Ph.D. Fellow**
CSIC (National Research Council of Spain), Immunology and Genomics Unit (Head: Dr. Antonio Figueras - Dr. Beatriz Novoa), Vigo, Spain.
7th Framework People Programme of the European Commission: “Training Network on Zebrafish Infection Models for Pharmaceutical Screens”, FishforPharma (PITN-GA-2011-289209). Development of infection protocols in the zebrafish animal model to study the emerging foodborne human pathogen bacteria *Aeromonas hydrophila*.
- 14/01/2009–30/09/2009 **Internship**
ENEA, National Agency for New Technologies, Energy and Sustainable Economic Development, Division BAS-BIOTEC-GEN (Head: Dr. Eugenio Benvenuto), Rome, Italy.
Study of the green alga *Chlamydomonas reinhardtii* for the hydrogen production.

EDUCATION AND TRAINING

- 08/10/2014–24/09/2017 **Ph.D. in “Advanced Biotechnology”** Level 8 QEQ
University of Vigo, (Spain), cum laude.
Thesis title: “**Zebrafish (*Danio rerio*) as infection model to study the pathogenesis of the bacteria *Aeromonas hydrophila***”.
- 03/10/2013–27/07/2015 **M.Sc. in “Advanced Biotechnology”** Level 7 QEQ
University of Vigo, Vigo (Spain), 8.7.
- **Diagnosis and molecular therapy of diseases.**
 - **Production, management and quality control systems of the food, agricultural and biomedical industries.**

30/10/2007–15/12/2011 **M.Sc. in “Applied Biocatalysis”** Level 7 QEQ
 University of Tuscia, Viterbo (Italy), cum laude.

- **Biotechnological applications in health and industrial fields.**
- **Development, use and production of biological catalysts in various industrial sectors.**

25/09/2002–19/04/2007 **B.S. in “Agricultural and Environmental Biotechnologies”** Level 6 QEQ
 University of Tuscia, Viterbo (Italy), cum laude.

- **Analysis and use of biological systems for human applications.**

PERSONAL SKILLS

Professional skills

- **Animal and microbial cell cultures.**
- ***In vitro* toxicology of natural and synthetic compounds.**
- **Screening of bioactive molecules.**
- **Cellular and molecular biology techniques.**
- **Confocal microscopy.**
- **Use of zebrafish *Danio rerio* experimental model.**

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	B2	B2	C2
Spanish	C2	C2	C2	C2	C1

Communication skills

Excellent verbal and written communication, mediating and intercultural skills acquired during my work experience in Spain where I related daily with people from different Countries.

Organisational / managerial skills

Excellent organizational skills acquired during the development of my research project in Spain: from the paperwork and orders to the planning of experiments, the training path and collaborations with several european research groups.

Computer skills

Proficient with PC Windows and Linux, Microsoft Office (Excel, Word, Power Point), Prism, Photoshop, Leica AF-Lite, Image J, 3DSurfer.

Driving licence **B**

Curriculum vitae

ADDITIONAL INFORMATION

Publications **Currently I am the co-author of ten publications:** <https://orcid.org/0000-0002-3225-0536>. The newest one: Miccoli A, Mancini E, **Saraceni PR**, Della Ventura G, Scapigliati G, Picchietti S. (2022). **First evidence of *in vitro* cytotoxic effects of marine microlitter on *Merluccius merluccius* and *Mullus barbatus*, two Mediterranean commercial fish species.** Sci Total Environ. 813:152618 <https://doi.org/10.1016/j.scitotenv.2021.152618>.

- Congress**
- 2015 : **“6° EMBO meeting”**, 5-8 September, Birmingham (UK).
 - 2014 : **“11th International Symposium on *Aeromonas* and *Plesiomonas*”**, 25-27 June, Montpellier (France).
 - 2013 : **“First International Conference of Fish and Shellfish Immunology”**, 25-28 June, Vigo (Spain).

- Congress abstract/poster**
- 2022 : **“XIV INBB National Conference, Research and Innovation for Environment, Health and Nutrition”**, 17-18 November, Rome (Italy).
 - 2019 : **“3rd International Conference on Fish & Shellfish Immunology”**, 16-20 June, Las Palmas De Gran Canaria (Spain).
 - 2018 : **“11th Annual Zebrafish Disease Models Conference”**, 10-13 July 2018, Leiden (Netherlands).
 - 2016 : **“2nd International Conference of Fish and Shellfish Immunology”**, 26-30 June, Portland (USA).
 - 2015 : **“17th International Conference on Diseases of Fish and Shellfish”**, 7-11 September, Las Palmas De Gran Canaria (Spain).
 - 2014 : **“11th International Symposium on *Aeromonas* and *Plesiomonas*”**, 25-27 June, Montpellier (France).
 - 2013 : **“First International Conference of Fish and Shellfish Immunology”**, 25-28 June, Vigo (Spain).

- Training Courses and Seminars**
- 2019: **“Experimental models to study infectious diseases and therapeutic molecules: example of the zebrafish infection model”**, lecturer at **University of Tuscia**, 4 June, Viterbo, Italy.
 - 2017: **“ECDL”** (European computer driving licence), Civita Castellana (Italy).
 - 2015 : **“Animal Experimentation Course cat. B”**, Vigo (Spain).
 - 2015 : **“New Insights for multicolor panel design Flow Cytometry Seminar”**, 17 February, Vigo, (Spain).
 - 2014 : **“Genomics and Bioinformatics Workshop 2014”**, 28-30 January, Leiden (The Netherlands).
 - 2013 : **Marie Curie ITN FishforPharma workshop: “Drug Discovery Workshop”**, 27-30 April, Wageningen (The Netherlands).
 - 2005 : **“6th Course of Mass Spectrometry for the study of Genome and Proteome”**, 27-29 May, Vitorchiano (Italy).

Professional registration ▪ 2021 : “**National order of biologists**”, Italy.

- Awards
- 2022 : **Seed Talent UNITUS Grants**, University of Tuscia (Italy).
 - 2011 : **Marie Skłodowska-Curie Actions, FishforPharma** (PITN-GA-2011-289209), CSIC (Spain).

