

Mara Simonazzi

Post-doc (1st Mar 2024 - present) University of Bologna (Italy) Dep. Biological, Geological and Environmental Sciences (BiGEA), Via Sant'Alberto, 163, 48123, Ravenna (RA)



Place and date of birth

Rimini (Italy), 1st October 1992

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Education

	Education
2019 - 2023	PhD in Earth, Life and Environmental Sciences (35th cycle), University of
	Bologna (Italy) [SSD BIO/01]. Thesis: Toxic cyanobacteria in water intended for
	drinking purpose: improvement of cells and toxins' analyses and of treatments for their
	removal.
2014 - 2017	M.Sc. Marine Biology, University of Bologna, Italy. 110/110 cum laude
2011 - 2014	B.Sc. Biological Sciences, University of Urbino, Italy. 109/110
2006 - 2011	State Scientific Highschool, Liceo Scientifico G. Marconi Pesaro, Italy. 100/100

H-index	3, total number of citations: 32 (Scopus, accessed on Sep. 18th, 2024)
Co-authoring	6 publications peer-reviewed journals (5 as first-author, 3 as co-corresponding author)
Conferences	3 posters and 10 oral communications at national and international conferences

Research experience –

01 Mar 2024-	Post-doc research fellow, University of Bologna, Italy. Project: Cyanotoxins
PRESENT	oxidation by atmospheric plasma, a green technology for water decontamination -
	PLASMADETOX, 2022EFEEKR - CUP J53D23008640 006.

01 Mar 2023-	Post-doc research fellow, University of Bologna, Italy. Project: Microalgae as circular
29 Feb. 2024	ingredients to reduce the carbon footprint in aquaculture feeds. CN Biodiversity
	Spoke2 Activity3 "Action 3.1 Circular feeds for carbon neutrality" – PNNR Project

	Research mobility, University of Helsinki, Finland. Discovery of new secondary
01 Mar. 2022	metabolites from cyanobacteria through bioinformatics. Erasmus+ Mobility for
	Traineeship.

01 Nov. 2019–	PhD candidate , University of Bologna, Italy. Project: Distribution of cyanobacteria
01 Jan. 2023	and their toxins in Emilia Romagna freshwater reservoirs and evaluation of the
	effectiveness of drinking water treatments

06 May 2019–	Post-graduate	scholarship,	University	of	Bologna,	Italy.	Inter-laboratories
31 Oct. 2019	procedures for o	alibration of flu	orometric t	tools	used in mic	roalgae	and cyanobacteria
	detection in drin	king water					

11 Jun. 2018–	Post-graduate scholarship, University of Bologna, Italy. Spectrophotometric
11 Dec. 2018	methods and fluorometric probes for cyanobacteria monitoring in drinking water
30 Nov. 2016–	Trainee graduating student, University of Bologna and Micoperi Blue Growth,

14 Dec. 2017	Ravenna, Italy. (M.Sc. Thesis preparation)
18 Jan. 2016–	Trainee , Fjordforsk A/S, Norway. Evaluation of marine fish population decline along

10 Jan. 2010–	Trance, 1 Jordiorsk 11/5, Norway. Evaluation of marine fish population deemie along
18 Apr. 2016	Norwegian coasts due to local pollution. Erasmus+ Mobility for Traineeship.

Teaching activities _

2019 - 2024	Teaching tutor , University of Bologna, Italy. "Plant biology" (B.Sc. students)
2018 - 2022	(Co)-Supervisor of 8 M.Sc. and 3 B.Sc. thesis. University of Bologna
	Third mission

22 May 2024	Unione Bolognese Naturalisti, Bologna, Italy. Seminar (2 h). Lecture's title:
	Cianobatteri nelle acque destinate alla potabilizzazione: rischi e vantaggi per l'uomo.

2020 – present	Notte Europea dei Ricercatori, University of Bologna, Italy. Dissemination activities
	on microalgal and cyanobacterial research; mixed audience (age 5-99)

13 Apr. 2021	Career counselling seminar for high school students (2 h), online. Lecture's title:
	From environment to industry: blue biotechnologies for the production of natural
	compounds from microorganisms. ISCOM-ER (Istituto per lo Sviluppo del
	Commercio e del Turismo dell'Emilia-Romagna, Ente di formazione di
	Confcommercio Emilia-Romagna)

Training courses -

	Metabarcoding and metagenomic data processing and analyses: a practical
07 Feb. 2020	overview. Stazione Zoologica Anthon Dohrn, Naples, Italy
29 Jul. 2019–	Determination Course of Freshwater and Terrestrial Cyanobacteria. University
02 Aug. 2019	of South Bohemia, Czech Republic

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10.22	Theoretical-practical course of Multi-techniques for the study of the ecology of
19-22	
	phytoplankton. Società Italiana di Biologia Marina (SIBM), University of Naples
Feb. 2018	
1 60. 2010	Federico II Italy

Awards

2022	Best Talk Award. VIII International Plant Science Conference (IPSC). € 150 book
	voucher for Koeltz Botanical Books
2020	Best Poster Award, NaToxAq-Natural Toxins: Environmental Fate and Safe Water

Best Poster Award, NaToxAq-Natural Toxins: Environmental Fate and Safe Water Supply. International conference 24th-25th September 2020 (online).

Research interests

Microalgae and cyanobacteria · Toxins · Drinking water monitoring · Water treatment · Biotechnology applications · Microalgal cultivation · Bioactive compounds · Phytodepuration

Language knowledge

Italian

Native

English

Proficient (B2/C1)

Finnish

Basic (A1)

Norwegian (Nynorsk)

Basic (A1)

Spanish

Basic (A1) Common EU Reference for Languages

Technical skills

Identification and isolation of microalgae and cyanobacteria; culturing techniques PAM fluorimetry

Biomass characterization (lipids, protein, polysaccharides, pigments, organic C and N) with spectrophotometric methods, GC-MS/MS and CHN analyser

Ion chromatography for nutrient analyses (N, P, S)

Ecotoxicity bioassays Toxins determination LC-MS/MS Molecular techniques (DNA extraction, PCR, cloning, genome data analysis) Statistical data analysis and processing

IT skills Advance user:

Office © suite, Windows operating system, Mendeley Ltd, PAST 3.0

Basic knowledge:

UNIX shell command, R, OriginLab, ArcGIS/QGIS, MEGA, antiSMASH

Publications

Simonazzi M. et al. 2024. Chemosphere, 364, 142976

https://doi.org/10.1016/j.chemospher e.2024.142976

Simonazzi M. et al. 2024. Algal Res, 82, 103648 https://doi.org/10.1016/j.algal.2024.10

3648 Pezzolesi L. et al. 2023. Algal Res, 74,

103196 https://doi.org/10.1016/j.algal.2023.10 3196

Simonazzi M. et al. 2022. Int. J. Environ. Res. Public Health, 19(21), 14075 https://doi.org/10.3390/ijerph1921140

Simonazzi M. et al. 2021. International Journal of Biological Macromolecules, 191 (2021) 92-99 https://doi.org/10.1016/j.ijbiomac.202 1.09.054

Simonazzi M., et al. 2019. Bioresource Technology, 292, 121921 https://doi.org/10.1016/j.biortech.201 9.121921