


## **Dr. MARIA PAPADATOU**


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*I am a microbial ecologist/oceanographer with expertise upon the application of molecular tools to decipher the environmental microbial diversity and activity. My research interests lie on microbe-driven carbon and nitrogen cycling, assessment of pesticides toxicity on soil microorganisms and the response of microbial fouling (biofouling) on antifouling applications.*

## **Education**

**20/09/2016 – 23/11/2020:** Doctor of Philosophy (PhD) in **Environmental Microbiology**, University of Portsmouth, Portsmouth (*United Kingdom*). Thesis title: «Understanding marine biofilm formation on artificial and antifouling surfaces».

**23/09/2011 – 27/06/2013:** Erasmus Mundus Master of Science (MSc) in **Marine Biodiversity and Conservation**, Year 1: Ghent University, Ghent (*Belgium*), Year 2: University Pierre et Marie Curie (Paris VI); Villefranche-sur-Mer & Roscoff (*France*). Thesis title: «Bacterial diversity associated with anthropogenic particles and neuston in the surface layer of the East Atlantic Ocean» implemented at the Max Planck Institute for Marine Microbiology, Bremen (*Germany*).

**01/09/2006 – 21/06/2012:** Bachelor of Science (BSc) in **Marine Science**, University of the Aegean, Lesvos (*Greece*). Thesis title: «Examining the fungal concentration in recreational beach sand before and after precipitation».

## **Professional Experience**

**01/05/2022 - present:** Postdoctoral Fellow in Environmental Microbiology, Department of Biochemistry and Biotechnology, University of Thessaly (*Greece*). Project: «ReASSESS - Revolutionizing the assessment of the toxicity of pesticides on soil microorganisms: from single species tests to ecosystem approaches».

**01/12/2020 – 31/03/2022:** Remote work including PhD manuscripts preparation (1<sup>st</sup> paper submitted in May 2021, 2<sup>nd</sup> in January 2022), analysis of data collected upon PhD completion, and Postdoctoral Fellowship proposal preparation (*Simons PF in Marine Microbial Ecology/* May 2021, *MSCA PF/* October 2021).

**14/02/2019 – 20/12/2020:** UKVI Invigilator Staff, British Council, Portsmouth (*UK*).

**01/11/2016 – 30/03/2020:** Research Assistant, School of Biological Sciences, University of Portsmouth (*UK*). As part of the PhD Fellowship, I had weekly contribution as a teaching and demonstrator assistant in practical laboratories coordinated by academic staff at the Department of Biological Sciences.

**01/10/2016 – 30/09/2019:** Open Day Science Demonstrator, University of Portsmouth (*UK*). Scientific demonstration of my research work to perspective undergraduate students and their parents in the research laboratory facilities.

**03/11/2014 – 15/02/2016:** Direct Dialogue Fundraiser, WWF Greece, Athens (*Greece*).

## **Professional Activity**

**2022 – present:** Reviewer for FEMS Microbiology Ecology journal (*Oxford University Press*).

**2019 – present:** Reviewer for Biofouling journal (*Taylor & Francis*).

**2018 – 2020:** Founder and Coordinator of the Postgraduate Biological Society (PBioSoc), University of Portsmouth (*UK*).

## **Research Experience – Training**

**06/08/2022 - 29/08/2022:** RV *Maria S. Merian* Expedition MSM110 from Reykjavik (Iceland) to East Greenland and back. Project title: «ECOTIP: ECOlogical TIPping cascades in the Arctic Seas».

**01/04/2022 - 30/06/2022:** Visiting Researcher/Grantee of the FEMS Research & Training Grant, Computer Science Department, University of Tübingen (*Germany*). Project: «Exploring and optimising bioinformatics tools of RNA-Seq data analysis for providing robust insights into active marine microbial communities on antifouling coatings».

**03/2014:** 1st African Discovery Camp (RNGO) of the Regional Graduate Network in Oceanography, Postgraduate Research Training on Microbial and Geochemical Oceanography in Upwelling Ecosystems. RV *Mirabilis* Expedition MOM/RGNO-0314 & Sam Nujoma Marine and Coastal Resources Research Centre of the University of Namibia (*Namibia*). Project title: «Physiological study on the growth and nitrate uptake of *Thiomargarita*».

**07/2013:** Summer Course on Environmental Life Sciences Engineering. Singapore Centre on Environmental Life Sciences Engineering (SCELSE) (*Singapore*).

**10-12/2012:** European Universities & Research Onboard *Polarstern* in the Atlantic (EUROPA): Pelagic Biodiversity of the Atlantic Ocean. RV *Polarstern* Expedition ANT-XXIX/1, Bremerhaven (*Germany*) to Cape Town (*South Africa*). Project title: «Biodiversity and activity of microbial biofilms in niches in the ocean».

**07/2012:** Erasmus Mundus Master of Science (EMBC) Summer School. Marine Biology Station Piran (*Slovenia*). Project title: «Assessing marine litter and microplastics along the coast of Slovenia».

**04-06/2012:** EMBC Research Internship. Laboratory of Environmental Toxicology and Aquatic Ecology, Ghent University (*Belgium*). Project title: «Examining the effect of CU in mussels from the Adriatic and Baltic Seas».

**03–08/2011:** Undergraduate Erasmus Placement. Microbial Oceanography Laboratory, Observatoire Océanologique de Banyuls sur mer (*France*). Project title: «Screening a subset of a large collection of marine bacteria for proteorhodopsin (PR) coding genes».

## **Publications**

*Google scholar:* 378 citations, h-index = 3; *Scopus:* 281 citations, h-index = 2; *Web of Science:* 259 citations, h-index = 3

### Published/ Peer-reviewed

**Papadatou, M., Knight, M., Salta, M.** (2022). High-throughput method development for *in situ* quantification of aquatic phototrophic biofilms. *Biofouling*, 6:1-15. <https://doi.org/10.1080/08927014.2022.2094259>.

**Papadatou, M., Robson, S.C., Dobretsov, S., Watts, J.E.M., Longyear, J., Salta, M.** (2021). Marine biofilms on different fouling control coating types reveal differences in microbial community composition and abundance. *MicrobiologyOpen*, 10: e1231. <https://doi.org/10.1002/mbo3.1231>.

Laglbauer, B.J.L., Franco-Santos, R.M., Andreu-Cazenave, M., Brunelli, L., **Papadatou, M.**, Palatinus, A., Grego, M., Deprez, T. (2014). Macrodebris and microplastics from beaches in Slovenia. *Marine Pollution Bulletin*, 89(1-2): 356-366. <https://doi.org/10.1016/j.marpolbul.2014.09.036>.

Courties, A., Riedel, T., Jarek, M., **Papadatou, M.**, Intertaglia, L., Lebaron, P., Suzuki, M.T. (2014). Draft genome sequence of the gammaproteobacterial strain MOLA455, a representative of a ubiquitous proteorhodopsin-producing group in the ocean. *Genome Announcements*, 2(1): e01203-13. <https://doi.org/10.1128/genomeA.01203-13>.

### Under review/ In preparation

**Papadatou, M., Robson, S.C., Gautam, A., Huson, D., Salta, M.** Comparison of marine biofilm taxonomic profiles between metatranscriptomic and amplicon sequencing analyses. Status: In preparation for *FEMS Microbiology Ecology*.

**Papadatou, M.** Biofilms on marine antifouling coatings: specificity and microbially-induced effects. Status: In preparation for *Environmental Microbiology*.

**Papadatou, M., Robson, S.C., Dobretsov, S., Salta, M.** Biofilm transcriptomes on marine antifouling coatings are hot spots of metal and antibiotic resistance genes. Status: In preparation for *Nature Microbiology*.

## Conferences

**Papadatou, M.**, Robson, S.C, Dobretsov, S., Watts, J.E.M., Longyear, J., Salta, M. The effect of fouling control coating type on the development of marine biofilm communities in the Solent UK. Paper presented at: 9th Conference of MIKROBIOKOSMOS “Beneficial microbes at the heart of Mikrobiokosmos”. 2021 December 16-18; Athens, Greece. [https://www.mikrobiokosmos2021.org/articlefiles/MIKROBIOKOSMOS\\_PROGRAM\\_2021\\_low\\_20\\_12.pdf](https://www.mikrobiokosmos2021.org/articlefiles/MIKROBIOKOSMOS_PROGRAM_2021_low_20_12.pdf)

**Papadatou, M.**, Robson, S., Watts, J., Dobretsov, S., Salta, M. Functionality and composition of marine biofilms on antifouling coatings. Paper presented at: Biofilms 9 conference. 2020 September 29-1 October; Karlsruhe, Germany. <https://doi.org/10.5194/biofilms9-117>

**Papadatou, M.**, Robson, S., Watts, J., Dobretsov, S., Salta M. Functionality of marine biofilm communities isolated from antifouling coatings. Paper presented at: 6th European Congress on Biofilms “Eurobiofilms 2019”. 2019 September 3-6; Glasgow, Scotland, UK.

**Papadatou, M.**, Harder, J. Bacterial diversity associated with anthropogenic particles and neuston in the surface layer of the East Atlantic Ocean. Paper presented at: In the Wake of Plastics Conference. 2015 October 13-15; Venice, Italy.

**Papadatou, M.**, Harder, J. Bacterial diversity associated with anthropogenic particles and neuston in the surface layer of the East Atlantic Ocean. Paper presented at: 11th Panhellenic Symposium of Oceanography & Fisheries “Aquatic Horizons: Challenges & Perspectives”. 2015 May 13-17; Mytilene, Lesvos Island, Greece. [https://oceanos-dspace.hcmr.gr/bitstream/handle/123456789/2604/PanhellSympOceanFish11\(561-564\)2015..pdf?sequence=1](https://oceanos-dspace.hcmr.gr/bitstream/handle/123456789/2604/PanhellSympOceanFish11(561-564)2015..pdf?sequence=1)

**Papadatou, M.**, Laglbauer, B.J.L., Franco-Santos, R.M., Andreu-Cazenave, M., Brunelli, L., Palatinus, A., Grego, M., Deprez, T. Microplastics from beaches in Slovenia. Poster presented at: 2015 Welch Symposium “Plastic GYRE: Artists, Scientists and Activists Respond”. 2015 March 26-27; Atlanta, Georgia, USA.

## Prizes & Awards

	Budget
<b>10/2022:</b> FEMS Industry Placement Grant, <i>FEMS-2022-1848</i> . Federation of European Microbiological Societies (FEMS).	<u>€4,500</u>
<b>03/2022:</b> HORIZON-MSCA-2021-PF-01 (HORIZON Marie Skłodowska-Curie Actions Postdoctoral Fellowships 2021), <i>MIMEPOC: Microbially MEDIATED Particulate Organic Carbon flux - 101064476</i> . European Commission.	<u>€199,440.96</u>
<b>09/2020:</b> FEMS Research and Training Grant, <i>FEMS-GO-2020-217</i> . FEMS.	<u>€4,000</u>
<b>09/2020:</b> Travel Grant for Course attendance, <i>GA002491</i> . Microbiology Society ( <i>United Kingdom</i> ).	<u>£473</u>
<b>05/2020:</b> FEMS Meeting Attendance Grant, <i>FEMS-GO-2020-083</i> . FEMS.	<u>€500</u>
<b>02/2020:</b> Junior Scientist Conference Grant. Genetics Society ( <i>United Kingdom</i> ).	<u>£750</u>
<b>01/2014:</b> Course Grant, Microbial and Geochemical Oceanography in Upwelling Ecosystems. Regional Research Graduate Network in Oceanography (RNGO).	<u>NAD</u> <u>\$19,580</u>
<b>05/2013:</b> Course Grant, International summer course in Environmental Life Sciences Engineering. Singapore Centre on Environmental Life Sciences Engineering (SCELSE) ( <i>Singapore</i> ).	<u>SGD</u> <u>\$1,600</u>

## Scholarships

<b>2016 – 2020:</b> Postgraduate PhD Research Studentship (maintenance & tuition fees) & PhD Studentship (extension). University of Portsmouth ( <i>UK</i> ).	<u>£43,638</u> <u>£3,752</u>
<b>01/2019:</b> Science Faculty PGR Placement Scheme. University of Portsmouth ( <i>UK</i> ).	<u>£500</u>
<b>2013:</b> EMBC Excellence & Mobility Grants. Ghent University ( <i>Belgium</i> ).	<u>€2,700</u>
<b>2011:</b> Erasmus Student Mobility Placement. University of the Aegean ( <i>Greece</i> ).	<u>€3,600</u>
<b>2007 – 2009:</b> Annual BSc Excellence awards. Greek State Scholarships Foundation (IKY) ( <i>Greece</i> ).	<u>€3000</u>

## **Supervising & Mentoring**

**2016 – 2020:** Demonstrator at the Course practicals of Environmental Microbiology and General Biology. University of Portsmouth (*UK*).

**2016 – 2019:** Joint supervision and mentoring of three Bachelor students. University of Portsmouth (*UK*).

**2016 – 2017:** Joint supervision of Master student Mollie Knight for her thesis project «Quantification of spatial and temporal variability in marine biofilms in the Solent, UK». University of Portsmouth (*UK*).

## **Workshops**

**09–16/12/2020:** “Introduction to Python for Biologists”. Edinburgh Genomics, The University of Edinburgh.

**05/10/2020:** CZI-CABANA Microbiome Bioinformatics with QIIME 2. QIIME 2 Team.

**26/07/2019:** Correlation and Regression in *R*. DataCamp.

**12/08/2019:** RNA-Seq Differential Expression Analysis with Bioconductor in *R*. DataCamp.

**27–31/05/2019:** “Metagenomics, metatranscriptomics, and multi'omics for microbial community studies”. Physalia-courses, Free University of Berlin (*Germany*).

**03/09/2019:** Bioinformatics workshop. Eurobiofilms 2019 conference.

**2017:** Graduate Students' Professional Development (GPROF). Apex Foundation Pathway (*United Kingdom*).

**2012:** University Curriculum in Marine Data Management. International Oceanographic Data and Information Exchange (IODE) & UNESCO (*Belgium*).

## **Memberships**

**2019 – present:** Member of Microbiology Society (*London GB*)

**2019 – present:** Member of Society for Applied Microbiology (*London GB*)

**2020 – 2021:** Member of International Society for Microbial Ecology (ISME) (*Arnhem NL*)

**2019 – 2021:** Member of Genetics Society (*London GB*)

**2019 – 2021:** Member of International Biodeterioration Biodegradation Society (IBBS) (*Manchester GB*)

## **Professional Licenses & Certifications**

**09/09/2021:** Registration and Licensing to practice Geotechnical Profession of Ichthyologist (*A831/09-09-2021*). Hellenic Geotechnical Chamber (GEOTEE) (*Greece*).

**13/06/2014:** Lifeguard License. Hellenic Lifesaving School (PASHNA) (*Greece*).

**13/09/2011:** Speed Boat Operators' License. Port Authority (*Greece*).

**2010:** First Aid Responder (CPR inclusive). EMP Medic First Aid.

**2009:** Rescue Diver, EFR-Primary Care (CPR), Sec Care (1st aid). Professional Association of Diving Instructors (PADI).

**26/09/2006:** Driving license (A and B Categories). Hellenic Ministry of Transport and Communications.