



**Maria Vittoria Barbieri**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Maria Vittoria Barbieri holds a PhD cum laude in Analytical Environmental Chemistry by the University of Barcelona and currently works as Postdoctoral Researcher at the IDAEA-CSIC (Spain). Her main field of expertise is the environmental analysis of emerging contaminants by analytical methodologies based on separation techniques and mass spectrometry. The scientific interests and objectives of her research focus on the development of new analytical methodologies such as liquid chromatography coupled to mass spectrometry (LC-MS/MS) for the study of the occurrence and fate of currently used and prohibited pesticides and other anthropogenic contaminants (and their transformation products) in environmental samples (water, sediment, biota) and food samples. She also works on high-resolution mass spectrometry (HRMS) techniques for the identification of non-target pollutants and formation of metabolites, assessing their impact and significance for the environment and human health, and proposing ways to eliminate them via natural processes and bioremediation techniques.

She developed her doctoral studies between 2017 and 2021 at the Institute of Environmental Assessment and Water Research (IDAEA) of the Spanish Council for Scientific Research (CSIC) in Barcelona. Previous to this, she was granted with the European Unipharm-Graduates fellowship, funded by the Sapienza University of Rome (Italy), to continue her research career at the University of Barcelona. In 2016, she carried out her master's final work in Rome at the Water Research Institute of the Italian National Research Council (IRSA-CNR).

After the PhD, she was able to continue her scientific career with several postdoctoral positions and fellowships to develop her independent and own research projects. In particular, she was awarded with the European Food Risk Assessment Fellowship (EU-FORA) funded by the European Food Safety Authority (EFSA) to conduct her own research as principal researcher in 2021 at the Institute of Biochemistry and Cell Biology (IBBC) of the Italian National Research Council (CNR) (Naples, Italy). During this year she was able to apply all the knowledge and skills acquired during the PhD to conduct research about water and food contamination by organophosphate pesticides and assess their risk being part of the pioneer agency related to food risk for consumer consumption (EFSA). As such, she was trained by leading risk assessment experts about the selection and application of proper risk assessment methodologies to ensure water and food safety.

In 2022, she worked as postdoctoral researcher at the University of Montpellier (France) where she continued her research on pesticides and pharmaceutical occurrence in different environmental scenarios affected by water scarcity, high agricultural practices and risk assessment associated with their presence, together with the study of different remediation techniques.

Currently, she works as Postdoctoral Researcher at the IDAEA-CSIC where she conducted a study about the presence and impact of emerging organic pollutants in fishery products, in close collaboration with the Spanish Ministry of Environment, EFSA, and European Commission to identify those to be incorporated by future European and National legislation.

Maria Vittoria Barbieri has participated as principal researcher in one European project funded by EFSA, and as team member in 8 international and 2 national R&D projects financed in



public calls, and in 1 contract with external companies. She has published 17 SCI papers, being first author in 9 of them (3 in first coauthorship, 2 corresponding author) (H-index 9,333 citations) and has presented >30 contributions in national and international conferences. She is member of various national and international societies (SECYTA, SETAC), nets (NORMAN Network, EU-FORA Alumni), and she contributed as peer-reviewer in the scientific journals Scientific Reports, Science of the Total Environment, Journal of Environmental Management, Environmental Pollution, Chemosphere and Sensors. She volunteered and cooperated in the organization of R&D activities (scientific conferences, meetings, workshops) as a member of scientific societies and team member of European and international projects. She was awarded with several grants and/or scholarships for university excellence to carry out her studies and research in national and international programmes.



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

H-index: 9 (SCOPUS database)

Total number of citation (2019-present): 333

Total number of publications in scientific journals included in the SCI: 17

Total number of publications in scientific journals included in the SCI as first author: 9 (3 in first co-authorship), 2 corresponding author

Works presented in international/national conferences: >30

Participation in national projects: 3

Participation in European/international projects: 9

Participation in R+D contracts/agreements/projects: 1

**Maria Vittoria Barbieri**

Surname(s): **Barbieri**  
 Name: **Maria Vittoria**  
 ORCID: **0000-0001-6811-597X**  
 ScopusID: **57204569772**  
 ResearcherID: **GLU-4078-2022**  
 Date of birth: **13/03/1992**  
 Nationality: **Italy**  
 Contact aut. region/reg.: **Catalonia**  
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mariavittoria.barbieri@idaea.csic.es**  
 Personal web page: **https://www.researchgate.net/profile/Maria-Vittoria-Barbieri**

**Current professional situation**

**Employing entity:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
**Department:** Environmental and Water Chemistry for Human Health (ONHEALTH), IDAEA-CSIC  
**Professional category:** Postdoctoral Researcher  
**City employing entity:** Barcelona, Spain  
**Start date:** 08/05/2023

**Dedication regime:** Full time

**Performed tasks:** Study of the presence of persistent and emerging organic pollutants in fishery products to identify those to be incorporated by future European and International directives; evaluation of their environmental and human health impact.

**Identify key words:** Analytic chemistry; Environmental chemistry; Environmental risk assessment; Environmental impacts (environment, fisheries and aquaculture interactions); Food contamination

**Previous positions and activities**

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
<b>1</b>	University of Montpellier	Postdoctoral Researcher	01/04/2022
<b>2</b>	European Food Safety Authority - Institute of Biochemistry and Cell Biology (IBBC-CNR)	Postdoc - EU-FORA fellow	01/02/2021
<b>3</b>	Instituto de Diagnostico Ambiental y Estudios del Agua (IDAEA-CSIC)	PhD student	10/11/2017
<b>4</b>	Universitat de Barcelona	Unipharma-graduates fellow	22/03/2017
<b>5</b>	Italian National Research Council	Internship training	01/10/2015

**1** **Employing entity:** University of Montpellier  
**Department:** HydroSciences Montpellier, UFR des Sciences Pharmaceutiques et Biologiques  
**City employing entity:** Montpellier, France



**Professional category:** Postdoctoral Researcher

**Start-End date:** 01/04/2022 - 07/05/2023

**Performed tasks:** Analysis of organic pollutants and investigation of abiotic and biotic transformation processes in temporary waterways and associated groundwater bodies.

**2 Employing entity:** European Food Safety Authority - Institute of Biochemistry and Cell Biology (IBBC-CNR)

**Department:** Institute of Biochemistry and Cell Biology (IBBC-CNR)

**City employing entity:** Napoli, Italy

**Professional category:** Postdoc - EU-FORA fellow

**Start-End date:** 01/02/2021 - 31/01/2022

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Dedication regime:** Full time

**Performed tasks:** Monitoring of pesticide amount in water and drinkable food by a fluorescence-based biosensor and food risk assessment. Main tasks: - Protein purification and expression, development of enzyme-based biosensors - Measurements of pesticides in water and drinkable food - Evaluation of food and environmental risk assessment

**Identify key words:** Environmental chemistry; Chemical pollution; Environmental risk assessment; Environmental monitoring; Biochemistry; Food contamination

**3 Employing entity:** Instituto de Diagnostico Ambiental y Estudios del Agua (IDAEA-CSIC)

**Department:** Analytical and Environmental Chemistry, INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**City employing entity:** Barcelona, Spain

**Professional category:** PhD student

**Start-End date:** 10/11/2017 - 28/01/2021

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Dedication regime:** Full time

**Primary (UNESCO code):** 230100 - Analytical chemistry

**Secondary (UNESCO code):** 239100 - Environmental Chemistry

**Tertiary (UNESCO code):** 310109 - Pesticidas; 330811 - Water pollution control

**Performed tasks:** Analysis, occurrence and impact of pesticides in environment (water, sediment, biota) and recommendations for their attenuation. Main tasks: -Analytical methodologies development and validation, based on Liquid Chromatography (LC) and Gas Chromatography (GC) coupled to mass spectrometry (MS/MS); Ultra Performance Liquid Chromatography (UPLC) coupled to high resolution mass spectrometry (HRMS). - Sample preparation: sampling, filtration, centrifugation, fortification, extraction (solid phase extraction (SPE), pressurized liquid extraction (PLE), QuEChERS) - Quantification of pollutants and interpretation of results: MassLynx V4.1; Thermo Xcalibur 3.0.63 software - Environmental and food risk assessment analysis - Statistical analysis: STATA, SPSS, R software - Toxicological analysis: Norman Ecotoxicology Database; ECOTOX, TEST and ECOSAR (USEPA) - Dissemination of project results through the creation of a website for this purpose (<https://www.protect.baixllobregat.com/en/1/>) and other tools such as the GISSEL open access platform (<https://gisel.cuadll.org/geoportal/public>) for the visualization of water quality data

**Identify key words:** Mass spectrometry; Chromatography; Water pollution; Pollution from agricultural sources; Chemical pollution; Soil pollution; Food contamination; Water analysis; Water protection; Pollution control; Decontamination; Environmental risk assessment

**4 Employing entity:** Universitat de Barcelona **Type of entity:** University

**Department:** SINTEFARMA, Facultad de Química

**City employing entity:** Barcelona, Spain

**Professional category:** Unipharma-graduates fellow

**Start-End date:** 22/03/2017 - 30/09/2017

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)



**Dedication regime:** Full time

**Primary (UNESCO code):** 230600 - Organic chemistry; 230616 - Stereochemistry and conformational analysis; 230690 - Chemistry of Natural Products Organic; 330305 - Chemical synthesis

**Secondary (UNESCO code):** 230602 - Aromatic hydrocarbons; 230617 - Steroid chemistry

**Performed tasks:** Organic synthesis of natural products: Manipulation, purification, nuclear magnetic resonance and interpretation of results. Main tasks: - Realization and manipulation of reactions under inert argon atmosphere, purity analysis of compounds by thin layer chromatography (TLC); infrared spectrometry (IR); polarimetry -Structural analysis of organic compounds by means of Nuclear Magnetic Resonance of one dimensional techniques: proton, carbon 13 and DEPT and two dimensional techniques: COZY-H, HSQC and HMBC and processing of the resulting spectra using MestReNova 11.0

**Identify key words:** Chromatography; Natural products; Total synthesis; Catalysis; Methodology; Estereocontrol; Nuclear magnetic resonance

**Field of management activity:** University

**5 Employing entity:** Italian National Research Council

**Department:** Institute of Water Research (IRSA)

**City employing entity:** Montelibretti, Rome, Lazio, Italy

**Professional category:** Internship training

**Start-End date:** 01/10/2015 - 16/03/2017

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Dedication regime:** Full time

**Primary (UNESCO code):** 230100 - Analytical chemistry; 230112 - Microscopy; 239100 - Environmental Chemistry; 240900 - Genetics; 241400 - Microbiology

**Secondary (UNESCO code):** 230103 - Chromatographic analysis; 330811 - Water pollution control

**Performed tasks:** Bioremediation of marine sediments contaminated by chlorinated solvents (PCB, PCE): study of reductive dechlorination process and biomolecular characterization of dechlorinating microbial communities. Main tasks: - Microbiology: construction, preparation and enrichment of microcosms for the growth of microbial community; analysis with Fluorescence In Situ Hybridization techniques and quantitative analysis with epifluorescence microscope - DNA and RNA extraction, concentration analysis and degradation state with gel electrophoresis - Genetics: Real time PCR, Next Generation Sequencing (NGS)

**Identify key words:** Use of biochemical, microbiological and biological tools; Chromatography; Chemical pollution; Soil pollution; Decontamination; Microbiology; Microbiology; Water pollution; Environmental protection





## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**1 University degree:** Master

**Name of qualification:** Master degree in Biology, Ecology and Applied Anthropology

**City degree awarding entity:** Roma, Lazio, Italy

**Degree awarding entity:** University of Rome Tor Vergata      **Type of entity:** University

**Date of qualification:** 16/03/2017

**Average mark:** Excellent

**Prize:** cum laude

**Standardised degree:** Yes

**Foreign qualification:** Biologia Evolutiva, Ecologia e Antropologia Applicata

**2 University degree:** Bachelor

**Name of qualification:** Bachelor degree in Biology

**City degree awarding entity:** Viterbo, Lazio, Italy

**Degree awarding entity:** University of Tuscia      **Type of entity:** University

**Date of qualification:** 16/12/2014

**Average mark:** Excellent

**Prize:** annual grant for academic merits

**Standardised degree:** Yes

**Foreign qualification:** Laurea Triennale in Scienze Biologiche

#### Doctorates

**Doctorate programme:** PhD in Analytical and Environmental Chemistry

**Degree awarding entity:** Universitat de Barcelona      **Type of entity:** University

**City degree awarding entity:** Barcelona, Spain

**Date of degree:** 28/01/2021

**Thesis title:** - Analysis, occurrence and impact of pesticides in environment (water, sediment, biota) and recommendations for their attenuation

**Thesis director:** Miren Lopez de Alda

**Thesis co-director:** Cristina Postigo Rebollo

**Obtained qualification:** cum laude

**Special doctorate award:** Yes

**Date of award:** 28/01/2021





## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B2	B2	B2	B2	B1
Catalan	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1
Italian	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2

## Teaching experience

### Experience supervising doctoral thesis and/or final year projects

- Project title:** PhD thesis: Occurrence of emerging pollutants in fishery products and impact to marine environment and human health  
**Entity:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
**Student:** Valentina Araya Piqué  
**Date of reading:** 30/09/2026
- Project title:** Bachelor thesis: Analysis of plasticizers in bird eggs from Doñana National Park  
**Entity:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
**Student:** Sandra Ortiz Lisbona  
**Date of reading:** 30/01/2024

## Healthcare experience

### Healthcare experience in EU entities

**Identify key words:** Use of biochemical, microbiological and biological tools; Medical microbiology  
**Entity:** Andosilla Hospital (Civita Castellana, Italy) **Type of entity:** Healthcare Institutions  
**City of entity:** Civita Castellana, Lazio, Italy  
**Start-End date:** 08/01/2014 - 08/06/2014



## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** ONE-BLUE - Integrated approach to assess the levels and impact of cONtaminants of Emerging concern on BLUE health and biodiversity modulated by climate change drivers  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
**City of entity:** Barcelona, Spain  
**Name principal investigator (PI, Co-PI...):** Marinella Farrè  
**Name of the programme:** HORIZON-CL6-2023-ZEROPOLLUTION-01-2  
**Start-End date:** 01/01/2024 - 30/06/2028  
**Total amount:** 6.000.000 €
- 2** **Name of the project:** ACCIÓN - Aproximaciones Científicas en la Implementación de Estrategias Marinas: Herramientas de Gestión  
**Identify key words:** Analytic chemistry; Environmental protection; Environmental policy  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
**City of entity:** Barcelona, Spain  
**Name principal investigator (PI, Co-PI...):** Eljarrat, Ethel  
**Funding entity or bodies:** European Union-NextGenerationEU **Type of entity:** State agency  
**Name of the programme:** European Union-NextGenerationEU  
**Code according to the funding entity:** MITECO (EU) 2020/2094  
**Start-End date:** 01/01/2023 - 31/12/2025  
**Total amount:** 288.889 €
- 3** **Name of the project:** INWAT- develop new and improved methods to support the management of temporary waterways and aquifers in Mediterranean river basins  
**Identify key words:** Water management; Water pollution  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** University of Montpellier - HydroSciences Group  
**City of entity:** Montpellier, France  
**Name principal investigator (PI, Co-PI...):** Sandra Perez; Serge Chiron  
**Type of participation:** Team member



**Name of the programme:** PRIMA programme (Horizon2020)

**Start-End date:** 01/07/2019 - 30/06/2023

**Participating entity/entities:** Centre des Recherches et des Technologies des Eaux (CERTE); INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA; University of Jijel; University of Montpellier; Università degli studi di Bari Aldo Moro (UNIBA); Universität Duisburg-Essen (UDE)

**Dedication regime:** Full time

**4 Name of the project:** SulClaRes - Study of sulfamethoxazole and clarithromycin degradation and resistance in soils irrigated with reclaimed waste water

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** University of Montpellier

**Type of entity:** University Research Institute

**City of entity:** Montpellier, France

**Funding entity or bodies:**

Agropolis foundation

**Type of entity:** Foundation

**Code according to the funding entity:** 2204-003

**Start-End date:** 01/05/2022 - 01/05/2023

**Dedication regime:** Part time

**5 Name of the project:** EU-FORA - Monitoring of pesticide amount in water and drinkable food by a fluorescence-based biosensor and food risk assessment

**Identify key words:** Environmental risk assessment; Control of pesticides; Food contamination; Biochemistry; Pesticide residue

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** Institute of Biochemistry and Cell Biology (IBBC-CNR)

**Type of entity:** State agency

**City of entity:** Naples, Italy

**Name principal investigator (PI, Co-PI....):** Maria Vittoria Barbieri; Ferdinando Febbraio

**Funding entity or bodies:**

European Food Safety Authority (EFSA)

**Type of entity:** State agency

**Type of participation:** Principal investigator

**Name of the programme:** EU-FORA - European Food Risk Assessment Fellowship Programme

**Code according to the funding entity:** GP/EFSA/ENCO/2018/05

**Start-End date:** 01/02/2021 - 31/01/2022

**Dedication regime:** Full time

**6 Name of the project:** FITOFARMGEST - Análises de pesticidas em águas, solos e plantas

**Identify key words:** Other analytical techniques; Control of pesticides

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Type of entity:** State agency

**City of entity:** Barcelona, Spain

**Funding entity or bodies:**

Instituto Politecnico de Beja



**Type of participation:** Team member

**Code according to the funding entity:** PDR2020-101- 030926 (Ref. BDC 20191282)

**Start-End date:** 01/03/2019 - 31/12/2021

**Total amount:** 51.000 €

**Dedication regime:** Part time

**7 Name of the project:** WATERPROTECT - Innovative tools enabling drinking water protection in rural and urban environments

**Identify key words:** Drinking water; Organic pollution; Water treatment; Water pollution; Water management; Pesticide residue

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Type of entity:** State agency

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI....):** Antoni Ginebreda

**Funding entity or bodies:**

European Union (Horizon 2020)

**Type of entity:** State agency

**Type of participation:** Team member

**Name of the programme:** H2020-RUR-2016-2

**Code according to the funding entity:** 727450

**Start-End date:** 01/06/2017 - 30/05/2020

**Participating entity/entities:** 27 partners (6 research institutes and 5 universities, 4 farmer advisory organisations, 2 NGOs, 7 local authorities, 1 agroo-food company, 1 water user's association, 2 European organisations); 7 acti

**Total amount:** 4.997.006,5 €

**Sub-project amount:** 209.185,94 €

**Dedication regime:** Full time

**8 Name of the project:** BECAS - Desarrollo de metodologías analíticas para la determinación de plaguicidas en aguas y suelos y su aplicación en la evaluación de nuevos procesos de bioremediación ambiental

**Identify key words:** Analytical methods validation; Organic pollution; Decontamination; Water treatment; Water pollution; Pesticide residue

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Type of entity:** State agency

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI....):** Miren López de Alda; Ethel Eljarrat

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

**Type of entity:** State agency

**City funding entity:** Spain

**Type of participation:** Team member

**Name of the programme:** Programa Estatal de Investigación, Desarrollo e Innovación orientada a los Retos de la Sociedad

**Code according to the funding entity:** CMT2016-75587-C2-2-R

**Start-End date:** 01/01/2017 - 31/12/2019

**Participating entity/entities:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA; Universitat Autònoma de Barcelona



**Total amount:** 100.000 €

**Dedication regime:** Full time

**9 Name of the project:** GLOBAQUA - Managing the effects of multiple stressors on aquatic ecosystems under water scarcity

**Identify key words:** Mass spectrometry; Chromatography; Food contamination; Water pollution; Water management

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Type of entity:** State agency

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI....):** Damià Barceló

**Funding entity or bodies:**

European Union

**Type of entity:** State agency

**Type of participation:** Team member

**Code according to the funding entity:** FP7-ENV-2014

**Start-End date:** 01/02/2014 - 31/12/2019

**Participating entity/entities:** 25 (IDAEA-CSIC, ICRA, UB, EHU, LMU, EKUT, JSI, HCMR, ALTERNIA; UFZ, UNITN, CRNS, ATHENA, SMHI, UNIPD, IMPERIAL, IBISS, TNO, AEIFORIA, JRC, AFVCHA, IRNS, WU)

**Total amount:** 899.177 €

**Dedication regime:** Part time

**10 Name of the project:** NATCHEMDRUGS - Challenging organic syntheses inspired by nature - from natural products chemistry to drug discovery

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Current university student

**Entity where project took place:** Universitat de Barcelona

**Type of entity:** University

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI....):** Bruno Botta; Mercedes Amat

**Funding entity or bodies:**

European Union

**Type of entity:** State agency

**Type of participation:** Team member

**Name of the programme:** COST Action

**Code according to the funding entity:** CM1407

**Start-End date:** 16/03/2015 - 15/03/2019

**Total amount:** 657.908,19 €

**Dedication regime:** Full time

**11 Name of the project:** SOLUTIONS-Solutions for present and future emerging pollutants inland and water resources management

**Identify key words:** Mass spectrometry; Chromatography; Chemical pollution; Water pollution; Water analysis

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Type of entity:** State agency



**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI....):** Miren Lopez de Alda

**Funding entity or bodies:**

European Union

**Type of entity:** State agency

**Type of participation:** Team member

**Name of the programme:** 7th Framework Programme for Research and Technological Development of the European Commission

**Code according to the funding entity:** 603437

**Start-End date:** 01/11/2013 - 31/10/2018

**Participating entity/entities:** 39 organizations in total (research institutes, enterprises and universities from 17 countries); Helmholtz Centre for Environmental Research - UFZ

**Total amount:** 349.944 €

**Dedication regime:** Part time

**12 Name of the project:** ALOP - ALentejo Observation and Prediction systems: analysis de pesticidas y farmacos

**Identify key words:** Environmental risk assessment; Control of pesticides; Water pollution; Water analysis

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Type of entity:** State agency

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI....):** Miren Lopez de Alda

**Funding entity or bodies:**

Instituto Politécnico de Beja

**Type of entity:** University

**City funding entity:** Beja, Portugal

**Type of participation:** Team member

**Name of the programme:** Ajuste Direto n. 99/IPBeja/2017

**Code according to the funding entity:** ALT20-03- 0145-FEDER- 000004

**Start-End date:** 01/01/2018 - 31/01/2018

**Total amount:** 21.128,21 €

**Dedication regime:** Part time

**13 Name of the project:** RITMARE- Support integrated policies for the safeguard of the environment (the health of the sea); Enable sustainable use of resources (the sea as a system of production); Implement a strategy of prevention and mitigation of natural impacts (the sea as a risk factor)

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Current university student

**Entity where project took place:** Institute of Water Research (IRSA-CNR)

**City of entity:** Rome, Italy

**Name principal investigator (PI, Co-PI....):** Fabio Trincardi; Simona Rossetti

**Funding entity or bodies:**

Italian Ministry

**Type of entity:** State agency

**Type of participation:** Team member

**Name of the programme:** RITMARE National Flagship Project





**Code according to the funding entity:** 600407  
**Start-End date:** 2012 - 2016  
**Total amount:** 250.000.000 €  
**Dedication regime:** Full time

## R&D non-competitive contracts, agreements or projects with public or private entities

**Name of the project:** Directiva Marco del Agua - Análisis de compuestos plaguicidas polares en la red de control de les aguas subterráneas

**Identify key words:** Mass spectrometry; Chromatography; Control of pesticides; Water analysis

**Type of project:** Research and development, including transfer

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Degree of contribution:** Researcher

**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Type of entity:** State agency

**City of entity:** Barcelona, Spain

**Name principal investigator (PI, Co-PI...):** Miren Lopez de Alda

**Participating entity/entities:** INSTITUT CATALÀ DE RECERCA DE L'AIGUA - FUNDACIÓ PRIVADA; INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA

**Funding entity or bodies:**

Institut Català de Recerca de l'Aigua (ICRA)

**Type of entity:** R&D Centre

**City funding entity:** Girona, Spain

**Start date:** 01/01/2017

**Duration:** 1 year

**Total amount:** 71.464 €

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- Júnia Alves Ferreira; Manuel García Vara; Adriana Catarino; Ines Martins; Clarisse Mourinha; Marta Fabiao; Maria Vittoria Barbieri; Miren López de Alda; Maria Joan Costa; Patricia Palma. Pesticide water variability and prioritization: The first steps towards improving water management strategies in irrigation hydro-agriculture areas. Science of the Total Environment. 170304, 08/02/2024.  
**Type of production:** Scientific paper **Format:** Journal
- Farah Khezami; Olga Gomez-Navarro; Maria Vittoria Barbieri; Nouha Khiari; Anis Chkirbene; Serge Chiron; Samia Khadhar; Sandra Perez. Occurrence of contaminants of emerging concern and pesticides and relative risk assessment in Tunisian groundwater. Science of the Total Environment. 906 - 167319, 01/01/2024.  
**Type of production:** Scientific paper
- Maria Vittoria Barbieri; Serge Chiron. Relevance of photocatalytic redox transformations of selected pharmaceuticals in a copper- and iron-rich Mediterranean intermittent river. Chemosphere. 339 - 139762, 02/10/2023.  
**Type of production:** Scientific paper **Format:** Journal



**Corresponding author:** Yes

- 4** Andrea Peris; Maria Vittoria Barbieri; Cristina Postigo; Maria Rambla-Alegre; Miren Lopez de Alda; Ethel Eljarrat. Pesticides in sediments of the Ebro River Delta cultivated area (NE Spain): Occurrence and risk assessment for aquatic organisms. *Environmental Pollution*. 305, pp. 119239. 15/07/2022. Available on-line at: <[10.1016/j.envpol.2022.119239](https://doi.org/10.1016/j.envpol.2022.119239)>.  
**Type of production:** Scientific paper
- 5** Andreia C.M. Rodrigues; Maria Vittoria Barbieri; Ferdinando Febbraio. Monitoring of pesticide amount in fruit and vegetables by a fluorescence-based sensor. *EFSA Journal*. 20 - S1, pp. 200419. 25/05/2022. Available on-line at: <<https://doi.org/10.2903/j.efsa.2022.e200419>>.  
**Type of production:** Scientific paper
- 6** Maria Vittoria Barbieri; Andreia C.M. Rodrigues; Ferdinando Febbraio. Monitoring of pesticide amount in water and drinkable food by a fluorescence-based biosensor. *EFSA Journal*. 20 - S1, pp. 200403. 25/05/2022. Available on-line at: <<https://doi.org/10.2903/j.efsa.2022.e200403>>.  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 7** Andreia C.M. Rodrigues; Maria Vittoria Barbieri; Marco Chino; Giuseppe Manco; Ferdinando Febbraio. A 3D printable adapter for solid-state fluorescence measurements: the case of an immobilized enzymatic bioreceptor for organophosphate pesticides detection. *Analytical and Bioanalytical Chemistry*. 414, pp. 1999 - 2008. 22/01/2022. Available on-line at: <<https://doi.org/10.1007/s00216-021-03835-1>>.  
**Type of production:** Scientific paper
- 8** Andreia C.M. Rodrigues; Maria Vittoria Barbieri; Marco Chino; Giuseppe Manco; Ferdinando Febbraio. A FRET Approach to Detect Paraoxon among Organophosphate Pesticides Using a Fluorescent Biosensor. *Sensors*. 22(2) - 561, 19/01/2022. Available on-line at: <<https://doi.org/10.3390/s22020561>>.  
**Type of production:** Scientific paper
- 9** Patricia Palma; Sofia Fialho; Ana Lina; Miren López de Alda. Occurrence and risk assessment of pesticides in a Mediterranean Basin with strong agricultural pressure (Guadiana Basin: Southern of Portugal). *Science of the Total Environment*. 794 - 148703, 10/11/2021. Available on-line at: <<https://doi.org/10.1016/j.scitotenv.2021.148703>>.  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 9
- 10** Kaidi Hu; Maria Vittoria Barbieri; Ester Lopez Garcia; Cristina Postigo; Miren López de Alda; Gloria Caminal; Montserrat Sarrà. Fungal degradation of selected medium to highly polar pesticides by *Trametes versicolor*: kinetics, biodegradation pathways, and ecotoxicity of treated waters. *Analytical and Bioanalytical Chemistry*. 414, pp. 439 - 449. 15/04/2021. Available on-line at: <<https://doi.org/10.1007/s00216-021-03267-x>>.  
**Type of production:** Scientific paper
- 11** Maria Vittoria Barbieri; Andrea Peris; Cristina Postigo; Alba Moya Garcés; Simon Monllor Alcaraz; Maria Rambla Alegre; Ethel Eljarrat; Miren López de Alda. Evaluation of the occurrence and fate of pesticides in a typical Mediterranean delta ecosystem (EBRO RIVER delta) and risk assessment for aquatic organisms. *Environmental Pollution*. 274 - 115813, 01/04/2021. Available on-line at: <<https://doi.org/10.1016/j.envpol.2020.115813>>.  
**Type of production:** Scientific paper
- 12** Cristina Postigo; Antoni Ginebreda; Maria Vittoria Barbieri; Miren López de Alda. Investigative monitoring of pesticide and nitrogen pollution sources in a complex multi-stressed catchment: The lower Llobregat River basin case study (Barcelona, Spain). *Science of the Total Environment*. 755 - 142377, 10/02/2021. Available on-line at: <<https://doi.org/10.1016/j.scitotenv.2020.142377>>.



**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 15

- 13** Maria Vittoria Barbieri; Simon Monllor Alcaraz; Cristina Postigo; Miren López de Alda. Improved fully automated method for the determination of medium to highly polar pesticides in surface and groundwater and application in two distinct agriculture-impacted areas. *Science of the Total Environment*. 745 - 140650, 25/11/2020. Available on-line at: <<https://doi.org/10.1016/j.scitotenv.2020.140650>>.

**Type of production:** Scientific paper

- 14** Kaidi Hu; Josefina Torán; Ester López García; Paqui Blánquez. Fungal bioremediation of diuron-contaminated waters: Evaluation of its degradation and the effect of amendable factors on its removal in a trickle-bed reactor under non-sterile conditions. *Science of the Total Environment*. 743 - 140628, 15/11/2020. Available on-line at: <<https://doi.org/10.1016/j.scitotenv.2020.140628>>.

**Type of production:** Scientific paper

**Position of signature:** 4

**Total no. authors:** 9

- 15** Aina Urbina; Nuria Llor; Maria Vittoria Barbieri; Joan Bosch; Mercedes Amat. Enantioselective formal synthesis of the marine macrolide (-)-callyspongiolide. *Chemical Communications*. 56 - 41, pp. 5536 - 5539. 06/04/2020. Available on-line at: <<https://doi.org/10.1039/D0CC01978J>>.

**Type of production:** Scientific paper

- 16** Maria Vittoria Barbieri; Cristina Postigo; Simon Monllor Alcaraz; Damià Barceló; Miren López de Alda. A reliable LC-MS/MS-based method for trace level determination of 50 medium to highly polar pesticide residues in sediments and ecological risk assessment. *Analytical and Bioanalytical Chemistry*. 411 - 30, pp. 7981 - 7996. 25/11/2019. Available on-line at: <<https://doi.org/10.1007/s00216-019-02188-0>>.

**Type of production:** Scientific paper

- 17** Maria Vittoria Barbieri; Cristina Postigo; Nuria Guillem Argiles; Simon Monllor Alcaraz; Julliana Izabelle Simionato; Elisa Stella; Damià Barceló; Miren López de Alda. Analysis of 52 pesticides in fresh fish muscle by QuEChERS extraction followed by LC-MS/MS determination. *Science of the Total Environment*. 653, pp. 958 - 967. 25/02/2019. Available on-line at: <<https://doi.org/10.1016/j.scitotenv.2018.10.289>>.

**Type of production:** Scientific paper

## Works submitted to national or international conferences

- 1** **Title of the work:** Characterization of pesticide contamination and environmental impact in Doñana and Tablas de Daimiel National Parks  
**Name of the conference:** XXII Meeting of the Spanish Society of Chromatography and Related Techniques (SECyTA)  
**Corresponding author:** Yes  
**City of event:** S'Arenal, Balearic Islands, Spain  
**Date of event:** 16/10/2023  
**End date:** 18/10/2023  
**Organising entity:** SECyTA **Type of entity:** Foundation  
Barbieri M.V.; Peris A.; Bravo M.A.; Blanco G.; Hiraldo F.; Eljarrat E.

- 2** **Title of the work:** Relevance of reductive photo- and bio-transformation processes in intermittent Mediterranean river  
**Name of the conference:** XXII Meeting of the Spanish Society of Chromatography and Related Techniques (SECyTA)



**Corresponding author:** Yes  
**City of event:** S'Arenal, Balearic Islands, Spain  
**Date of event:** 16/10/2023  
**End date:** 18/10/2023  
**Organising entity:** SECyTA  
Barbieri M.V.; Della-Negra O.; Chiron S.

**Type of entity:** Foundation

- 3** **Title of the work:** Phototransformation of Pharmaceuticals in Temporary Rivers Under Simulated Sunlight in Real Environmental Conditions  
**Name of the conference:** SETAC Europe 33rd Annual Meeting  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Dublin, Ireland  
**Date of event:** 30/04/2023  
**End date:** 04/05/2023  
**Organising entity:** SETAC  
Barbieri M.V.; Manasfi R.; Chiron S.
- 4** **Title of the work:** Occurrence of pesticides in Grombalia plain, North-West-South East domain of the Cap Bon peninsula of North East Tunisia  
**Name of the conference:** AGIC conference  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Hammamet, Tunisia  
**Date of event:** 18/03/2023  
**End date:** 20/03/2023  
**Organising entity:** CERTE  
Khezami F.; Chiron S.; Barbieri M.V.; Khiari N.; Chkirbene A.; Khadhar S.
- 5** **Title of the work:** Non-target screening strategies for identification of transformation products after abiotic degradation and biotransformation processes  
**Name of the conference:** 18th Annual Workshop on Emerging HRMS and LC-MS/MS Applications in Environmental Analysis and Food Safety  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Barcelona, Spain  
**Date of event:** 10/10/2022  
**End date:** 11/10/2022  
**Organising entity:** CSIC and ICRA  
Barbieri M.V.; Tadic D.; Sosa Alderete L.; Sauvetre A.; Chiron S.
- 6** **Title of the work:** Application of a fluorescence-based biosensing device for the detection of organophosphate pesticides in water samples  
**Name of the conference:** ONE – Health, Environment, Society – Conference 2022  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Bruxelles, Belgium  
**Date of event:** 21/06/2022



**End date:** 24/06/2022

**Organising entity:** European Food Safety Authority **Type of entity:** State agency (EFSA)

Barbieri M.V.; Rodrigues A.C.M.; Chino M.; Manco G.; Febbraio F.

**7 Title of the work:** Detection of neurotoxic compounds at environmentally relevant concentrations by using a fluorescence-based biosensing device

**Name of the conference:** ONE – Health, Environment, Society – Conference 2022

**Type of event:** Conference

**Type of participation:** 'Participatory - poster

**City of event:** Bruxelles, Belgium

**Date of event:** 21/06/2022

**End date:** 24/06/2022

**Organising entity:** European Food Safety Authority **Type of entity:** State agency (EFSA)

Rodrigues A.C.M.; Barbieri M.V.; Chino M.; Manco G.; Febbraio F.

**8 Title of the work:** A FRET approach to detect organophosphate pesticides using a fluorescent biosensor

**Name of the conference:** EUROTOX 56th

**Type of event:** Conference

**Type of participation:** 'Participatory - poster

**City of event:** Virtual Congress,

**Date of event:** 27/09/2021

**End date:** 01/10/2021

**Organising entity:** European Society of Toxicology

Rodrigues A.C.M.; Barbieri M.V.; Chino M.; Manco G.; Febbraio F.

**9 Title of the work:** Direct detection of organophosphate pesticides in water by a fluorescence-based biosensor

**Name of the conference:** EUROTOX 56th

**Type of event:** Conference

**Type of participation:** 'Participatory - poster

**Corresponding author:** Yes

**City of event:** Virtual Congress,

**Date of event:** 27/09/2021

**End date:** 01/10/2021

**Organising entity:** European Society of Toxicology

Barbieri M.V.; Rodrigues A.C.M.; Chino M.; Manco G.; Febbraio F.

**10 Title of the work:** Monitoring of pesticides in groundwater of Catalonia (NE Spain): evaluation of spatial and temporal trends of groundwater quality status, and environmental and human risk assessment

**Name of the conference:** SETAC Europe 30th Annual Meeting

**Type of event:** Conference

**Type of participation:** 'Participatory - poster

**Corresponding author:** Yes

**City of event:** Virtual Congress,

**Date of event:** 03/05/2020

**End date:** 07/05/2020

**Organising entity:** SETAC

Barbieri M.V.; Postigo C.; Garrido T.; Fraile J.; Barceló D.; López de Alda M.



- 11 Title of the work:** Occurrence and ecotoxicological risk of pesticides in the water/sediment interacting compartments of the Ebro River Delta  
**Name of the conference:** IDAEA Seminar Series  
**Type of event:** Seminar  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Barcelona, Spain  
**Date of event:** 13/11/2019  
**Organising entity:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
Barbieri M.V.
- 12 Title of the work:** High throughput analysis of medium to highly polar pesticides in surface and groundwater from agriculture-impacted areas of catalonia using on-line SPE-LC-MS/MS  
**Name of the conference:** 1st Iberian Meeting in Separation Science & Mass Spectrometry  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Santiago, Spain  
**Date of event:** 08/10/2019  
**End date:** 10/10/2019  
**Organising entity:** SECyTA  
Barbieri M.V.; Postigo C.; Sola V.; López de Alda M.
- 13 Title of the work:** Determination of medium to highly polar pesticides residues in sediments by means of pressurized liquid extraction and LC-HESI-MS/MS  
**Name of the conference:** International Mass Spectrometry School  
**Type of event:** International Mass Spectrometry School  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Sitges, Spain  
**Date of event:** 15/09/2019  
**End date:** 20/09/2019  
**Organising entity:** SEEM  
Barbieri M.V.; Postigo C.; Monllor-Alcaraz S.; López de Alda M.
- 14 Title of the work:** Participatory water governance to protect drinking water resources in an agricultural peri-urban area, the Lower Llobregat River basin  
**Name of the conference:** EWRA 11th World Congress on Water Resources and Environment  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** No  
**City of event:** Madrid, Spain  
**Date of event:** 25/06/2019  
**End date:** 29/06/2019  
**Organising entity:** EWRA  
Barbieri M.V.; Postigo C.; Roda R.; Isla E.; Frances G.; Casanova A.; Queralt E.; Sola V.; Martin J.; de la Cal A.; Boleda M.R.; López García E.; Giebreda A.; Barceló D.; López de Alda M.
- 15 Title of the work:** Evaluation of the occurrence and fate of pesticides in the water/sediment interacting compartments of the Ebro River Delta (NE Spain) and risk assessment for aquatic organisms  
**Name of the conference:** SETAC Europe 29th Annual Meeting



**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**Corresponding author:** Yes

**City of event:** Helsinki, Finland

**Date of event:** 26/05/2019

**End date:** 30/05/2019

**Organising entity:** SETAC

Barbieri M.V.; Monllor-Alcaraz S.; Rambla-Alegre M.; Postigo C.; López de Alda M.

- 16 Title of the work:** WaterProtect - a joint European initiative to protect drinking in water rural and urban environments: the experience of the lower Llobregat River basin (NE Spain)

**Name of the conference:** SETAC Europe 29th Annual Meeting

**Type of event:** Conference

**Type of participation:** 'Participatory - poster

**City of event:** Helsinki, Finland

**Date of event:** 26/05/2019

**End date:** 30/05/2019

**Organising entity:** SETAC

Barbieri M.V.; Postigo C.; Garcia-López E.; Roda R.; Isla-Gil E.; Frances-Tudel G.; Casanovas-Cusco A.; Queralt E.; Sola V.; Martín J.; de la Cal A.; Boleda M.; Ginebreda A.; Barceló D.; López de Alda M.

- 17 Title of the work:** Occurrence of 52 pesticides in water, sediment and biota of Adige river (Italy)

**Name of the conference:** GLOBAQUA Final Conference: Water river management under water scarcity and multiple stressors

**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**Corresponding author:** Yes

**City of event:** Barcelona, Spain

**Date of event:** 17/12/2018

**End date:** 19/12/2018

**Organising entity:** GLOBAQUA project

Barbieri M.V.; Postigo C.; Guillem Argiles N.; Monllor Alcaraz S.; Stella E.; Bellin A.; Barceló D.; López de Alda M.

- 18 Title of the work:** New solutions for drinking water protection in rural and urban environments: the lower Llobregat River case study

**Name of the conference:** 1st Symposium Health and Climate Change

**Type of event:** Symposium

**Type of participation:** 'Participatory - poster

**Corresponding author:** Yes

**City of event:** Roma, Italy

**Date of event:** 03/12/2018

**End date:** 05/12/2018

**Organising entity:** Italian National Institute of Health **Type of entity:** R&D Centre (ISS)

Barbieri M.V.; Postigo C.; Roda R.; Isla E.; Frances G.; Casanova A.; Queralt E.; Sola V.; Marti J.; de la Cal A.; Boleda M.R.; Ginebreda A.; Barceló D.; López de Alda M.

- 19 Title of the work:** Occurrence of currently used pesticides in water and sediment samples from 3 distinct European river basins: Adige, Sava and Evrotas

**Name of the conference:** International Conference: Managing Water Scarcity in River Basins: Innovation and Sustainable Development





**Type of event:** Meeting  
**Type of participation:** 'Participatory - poster  
**City of event:** Agadir, Morocco  
**Date of event:** 04/10/2018  
**End date:** 06/10/2018  
**Organising entity:** GLOBAQUA project  
Barbieri M.V.; Monllor Alcaraz S.; Guillem Argiles N.; Barceló D.; López de Alda M.

**20** **Title of the work:** Analysis of 52 pesticides in fresh fish muscle by dispersive solid phase extraction with QuEChERS followed by UPLC-MS/MS analysis  
**Name of the conference:** 18th Conference of Spanish Society of Chromatography and Related Techniques  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Granada, Spain  
**Date of event:** 02/10/2018  
**End date:** 04/10/2018  
**Organising entity:** SECyTA  
Barbieri M.V.; Postigo C.; Guillem Argiles N.; Monllor Alcaraz S.; Simionato J.I.; Stella E.; Barceló D.; López de Alda M.

**21** **Title of the work:** Occurrence of medium and highly polar pesticides in fish muscle in different European river basins  
**Name of the conference:** 14th Annual LC/MS/MS Workshop on Environmental Applications and Food Safety  
**Type of event:** Workshop  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Barcelona, Spain  
**Date of event:** 26/06/2018  
**End date:** 27/06/2018  
**Organising entity:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency  
Barbieri M.V.; Postigo C.; Guillem Argiles N.; Monllor Alcaraz S.; Bellin A.; Skoulikidis N.; Milacic R.; Barceló D.; López de Alda M.

**22** **Title of the work:** Assessment of the occurrence and impact of polar pesticides in irrigation and drainage ditches at the Ebro River Delta cultivated area (NE Spain)  
**Name of the conference:** SETAC Europe 28th Annual meeting  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Roma, Italy  
**Date of event:** 13/05/2018  
**End date:** 17/05/2018  
**Organising entity:** SETAC  
Barbieri M.V.; Monllor Alcaraz S.; Guillem Argiles N.; Rambla Alegre M.; Postigo C.; Lopez de Alda M.



## Other dissemination activities

- 1** **Title of the work:** Transformation of organic micropollutants and related environmental and health risks  
**Name of the event:** Quality and management on intermittent rivers and associated groundwater in the Mediterranean basins : INWAT  
**Type of event:** Workshop  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Hammamet, Tunisia  
**Date of event:** 16/03/2023  
**Organising entity:** PRIMA project  
Barbieri M.V.; Chiron S..
- 2** **Title of the work:** Workshop: Promoting water protection at Barcelona metropolian area  
**Reasons for participation:** project partner  
**City of event:** Cornellá de Llobregat, Spain  
**Date of event:** 21/11/2019  
**Organising entity:** Grupo Agbar, CUADLL, CSIC, Parc Agrar Baix Llobregat
- 3** **Title of the work:** 2nd workshop on Sanitation Safety Plans related to water reuse at ERA Gavà-Viladecans  
**Reasons for participation:** Project partner  
**City of event:** ERA Gavà- Viladecans, Spain  
**Date of event:** 17/07/2019  
**Organising entity:** Grupo Agbar, CUADLL, CSIC, Parc Agrar Baix Llobregat
- 4** **Title of the work:** Workshop "Science, water governance and policy implementations: Scaling up to European level"  
**Reasons for participation:** Upon invitation  
**City of event:** Wexford, Ireland  
**Date of event:** 17/06/2019  
**Organising entity:** Teagasc
- 5** **Title of the work:** Sanitation Safety Plans related to water reuse at ERA Gavà- Viladecans  
**Reasons for participation:** project partner  
**City of event:** El Prat de Llobregat, Spain  
**Date of event:** 06/06/2019  
**Organising entity:** Grupo Agbar, CUADLL, CSIC, Parc Agrar Baix Llobregat
- 6** **Title of the work:** Current status of groundwater at Vall Baixa and Delta del Llobregat aquifers  
**Reasons for participation:** project partner  
**City of event:** El Prat de Llobregat, Spain  
**Date of event:** 14/05/2019  
**Organising entity:** Grupo Agbar, CUADLL, CSIC, Parc Agrari Baix Llobregat
- 7** **Title of the work:** III Congress of Catalan Water - Evolution of uses: reuse, circular economy and new technologies  
**Reasons for participation:** Representing  
**City of event:** Barcelona, Spain



**Date of event:** 20/03/2019

**Organising entity:** Agencia Catalana del Agua

**Type of entity:** State agency

**8 Title of the work:** Workshop WaterProtect – Innovative tools enabling drinking WATER PROTECTION in rural and urban environments

**Reasons for participation:** Upon invitation

**City of event:** Piacenza, Italy

**Date of event:** 11/11/2018

**Organising entity:** Università Cattolica del Sacro Cuore

**Type of entity:** University

**City organizing entity:** Italy

**9 Title of the work:** Water Protect Workshop

**Reasons for participation:** Representing

**City of event:** Aalborg, Denmark

**Date of event:** 20/06/2018

**Organising entity:** VITO NV

**City organizing entity:** Belgium

**10 Title of the work:** Conference on the optimization of the applications of sanitary products

**Reasons for participation:** Open access

**City of event:** El Prat de Llobregat, Spain

**Date of event:** 09/01/2018

**Organising entity:** Parc Agrari del Baix Llobregat

## R&D management and participation in scientific committees

### Organization of R&D activities

**1 Title of the activity:** SETAC Europe 29th Annual Meeting

**Type of activity:** Conference

**City of event:** Helsinki, Finland

**Type of participation:** Volunteer for Organization

**Start-End date:** 03/05/2019 - 07/05/2020

**2 Title of the activity:** GLOBAQUA Final Conference

**Type of activity:** Conference

**City of event:** Barcelona, Spain

**Type of participation:** Volunteer in Organization

**Start-End date:** 18/12/2018 - 19/12/2018

**3 Title of the activity:** 14th Workshop LC-MS/MS on Environmental Application and Food Safety

**Type of activity:** Conference

**City of event:** Barcelona,

**Type of participation:** Organization/Reception

**Start-End date:** 26/06/2018 - 27/06/2018



- 4** **Title of the activity:** Workshop Promoting Water Protection at Barcelona Metropolitan area  
**Type of activity:** Workshop  
**City of event:** Cornellá de Llobregat,, Spain  
**Type of participation:** Organiser  
**Start date:** 21/11/2019
- 5** **Title of the activity:** Sanitation Safety Plans related to water reuse at ERA Gavà-Viladecans  
**Type of activity:** Seminar  
**City of event:** Gavà, Spain  
**Type of participation:** Moderator  
**Start date:** 17/07/2019
- 6** **Title of the activity:** Presencia de pesticidas y origen de nitratos y amonio en las aguas del Bajo Llobregat  
**Type of activity:** Worskshop  
**City convening entity:** Cornellà del Llobregat, Spain  
**Type of participation:** Organiser

## R&D management

**Name of the activity:** SETAC Europe 33rd Annual Meeting  
**Type of management:** Management of organised events  
**Performed tasks:** Chair of Scientific Session HR-MS Analysis of Metabolites and TPs of Organic Pollutants - What Remains Unknown  
**Entity:** SETAC  
**Start date:** 30/04/2023 **Duration:** 5 days

## Other achievements

### Obtained grants and scholarships

- 1** **Name of the grant:** EU-FORA fellowship 2020-2021  
**Aims:** Post-doctoral  
**Awarding entity:** European Food Safety Authority **Type of entity:** State agency  
**Conferral date:** 01/02/2021 **Duration:** 1 year  
**End date:** 31/01/2022  
**Entity where activity was carried out:** Institute of Biochemistry and Cell Biology (IBBC-CNR), Naples, Italy
- 2** **Name of the grant:** INPS Borse di studio universitarie (scholarship for university excellence)  
**City awarding entity:** Italy  
**Aims:** Study  
**Awarding entity:** Italian National Institute of Social Security (INPS) **Type of entity:** State agency  
**Conferral date:** 2015 **Duration:** 5 years  
**End date:** 2019  
**Entity where activity was carried out:** Università degli studi della Tuscia and Università di Roma Tor Vergata



- 3** **Name of the grant:** Unipharma-Graduates fellowship  
**City awarding entity:** Rome, Italy  
**Aims:** Pre-doctoral  
**Awarding entity:** Università di Roma Tor Vergata  
**Conferral date:** 21/03/2017 **Duration:** 6 months  
**End date:** 30/09/2017  
**Entity where activity was carried out:** Universitat de Barcelona  
**Faculty, institute or centre:** Facultat de Farmacia
- 4** **Name of the grant:** Lazio Disu Grant – Regional Scholarship offered every year to students enrolled in the Lazio Region on the basis of economic requirements and merit  
**City awarding entity:** Italy  
**Aims:** Study  
**Awarding entity:** Lazio Region **Type of entity:** State agency  
**Conferral date:** 2012 **Duration:** 5 years  
**End date:** 2016  
**Entity where activity was carried out:** Università degli studi della Tuscia and Università di Roma Tor Vergata
- 5** **Name of the grant:** Juan de la Cierva Postdoctoral Researcher Fellowship 2022 (ultra-competitive call, 10% success rate)  
**Aims:** Post-doctoral  
**Awarding entity:** Ministerio de Ciencia e Innovación. **Type of entity:** Spanish Ministry Investigación  
**Conferral date:** 25/10/2023
- 6** **Name of the grant:** Moritz Schlick Postdoctoral Fellowship for Junior Leader (Vienna, Austria) (ultra-competitive call, 1% success rate)  
**Aims:** Post-doctoral  
**Awarding entity:** University of Vienna **Type of entity:** University  
**Conferral date:** 30/12/2022
- 7** **Name of the grant:** Margarita Salas Postdoctoral Grant 2021 - CONVOCATORIA DE AYUDAS PARA LA REQUALIFICACIÓN DEL SISTEMA UNIVERSITARIO ESPAÑOL PARA 2021/2023  
**Aims:** Post-doctoral  
**Awarding entity:** Ministerio de Ciencia e Innovación. **Type of entity:** Spanish Ministry Universidades  
**Conferral date:** 30/09/2022

### Scientific societies and professional associations

- 1** **Name of the society:** EU-FORA Alumni  
**Affiliation entity:** EFSA  
**Start date:** 2021
- 2** **Name of the society:** Sociedad Española de Cromatografía y Técnicas Afines (SECyTA)  
**City affiliation entity:** Spain,  
**Start date:** 2018



- 3** **Name of the society:** Society of Environmental Toxicology and Chemistry (SETAC)  
**Start date:** 2018

### Prizes, mentions and distinctions

- 1** **Description:** PhD cum laude  
**Awarding entity:** Universitat de Barcelona **Type of entity:** University  
**City awarding entity:** Barcelona, Spain  
**Conferral date:** 28/01/2021
- 2** **Description:** Master cum laude  
**Awarding entity:** Università di Roma Tor Vergata **Type of entity:** University  
**City awarding entity:** Rome, Italy  
**Conferral date:** 16/03/2017