



Melissa Paula Diogo Santos Faria

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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.

I am a Biologist, graduated in 2005 at the University of Aveiro, Portugal. Following my graduation I work for 9 months at the CIIMAR Institute in Oporto, where I participated in the EELANORA project, and was responsible for conducting field expeditions, specimens sampling and biochemical analyses.

I worked as a laboratory technician at Centro of Research and Innovation in Toxicology, Universitat Politècnica de Catalunya (CRIT-UPC) (formerly called INTEXTER-UPC) from 2006 to 2007 and at the IDAEA-CSIC from 2008 to 2011. I completed my PhD in May 2011. My thesis was focused on studying unique or/and differentiated physiological defensive mechanism of *Dreissena polymorpha* mussel versus other invasive and native bivalves, where I gained considerable amount of experience in field work, knowledge in different research fields, such as Environmental Chemistry, System Biology, Ecotoxicology, Stress Biology and Animal Physiology and participated in a number of research projects collaborating with other research groups and gaining valuable input on multidisciplinary research. In 2011 was awarded with a postdoctoral fellowship at the University of Aveiro (Portugal) for three years by the Fundação para a Ciência e Tecnologia (FCT, Portugal - SFRH/BPD/78342/2011) and was granted a further three year extension. In 2017 I was awarded with a two year postdoctoral Beatriu de Pinós fellowship (2016 BP 00233, AGUAR, Generalitat de Catalunya, Spain) at the IDAEA-CSIC (Barcelona) institute, where I am currently. Throughout my active years, I have published a total of 35 peer-reviewed scientific articles and 3 chapters in scientific books, of which 32 are in leading journals of my field (Quartile 1), such as, Scientific Reports, Archives of Toxicology, Science of the Total Environment, Aquatic Toxicology, Ecotoxicology, Chemosphere, Nanotoxicology, Toxicology and Applied Pharmacology. I am significantly involved in the majority my published work, I am first author, 1st and 2nd co-author and senior author of 71% of my scientific publications. I have an h-index of 15 and accumulated 763 citations (Scopus data base – 19/01/2019). I have contributed with 27 publications in national and international conferences and was invited as chair once. I have actively participated in 10 research projects and in 4 educational and R&D activities. I have collaborated with number of research institutes (Portugal, Spain, Germany, Israel, USA, France, Mexico), including a one month extensive field work in the Costa Rica National Park Palo Verde. I have trained and supervised a number of undergraduate, master and PhD students. Currently, I am a co-supervisor of one master student and managing three foreign internship master students. I have applied as a co-director of a PhD thesis in the recent FI Spanish scholarship calling. I am amply involved in two outreach programs: “CSIC en el aula” and “ESCOLAB” aimed to inspire future investigators. I am an active reviewer for 13 leader SCI journals, including Scientific Reports, Hazardous Materials, Science of the Total Environment. I am helping to create a new line of research at the IDAEA-CSIC concerning the understanding of the molecular bases behind neurotoxic effects of environmental pollutants and drugs.



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.

Melissa Faria has published a total of 35 peer-reviewed scientific articles and 3 publications in scientific books. Her peer-reviewed publications include 32 leading journals in her field (Quartile 1), such as, Scientific Reports, Archives of Toxicology, Science of the Total Environment, Aquatic Toxicology, Ecotoxicology, Chemosphere, Nanotoxicology, Toxicology and Applied Pharmacology. She is first author, 1st and 2nd co-author and senior author of 71% of her scientific publications (articles and books), indicating that she has been heavily involved in the majority of her published work. She has collaborated with a number of international research institutes (Germany, Israel, USA, France, Mexico) including a one month extensive field work in the Costa Rica National Park Palo Verde. She has an h-index of 16 and accumulated 773 citations (Scopus data base – 27/03/2019). She has contributed with 27 publications in national and international conferences and was invited for chair of one session. She has actively participated in 9 research projects and has been involved in 4 educational and R&D activities. She has been granted a postdoctoral fellowship at the University of Aveiro (Portugal) for three years with an awarded extension of a further three more years by the Fundação para a Ciência e Tecnologia (FCT, Portugal - SFRH/BPD/78342/2011). She is currently working at the IDAEA-CSIC (Barcelona) institute with a two year postdoctoral Beatriu de Pinós fellowship (2016 BP 00233) (AGAUR, Generalitat de Catalunya, Spain). She has extensive experience in training and supervising undergraduate, master and PhD students. Currently, Dr Melissa Faria is co-supervisor of one master student; she is also supervising three foreign internship master students and has applied, as a co-director of a PhD thesis in the recent FI Spanish scholarship calling. She is also heavily involved in two outreach programs: “CSIC en el aula” and “ESCOLAB” aimed to inspire future investigators. She is an active reviewer for 14 leader SCI journals, including Scientific Reports, Hazardous Materials, Science of the Total Environment, etc. She has established a new zebrafish housing system aiming to investigate the life cycle neurotoxicity after the developmental exposure of zebrafish to classical and emerging pollutants.



Melissa Paula Diogo Santos Faria

Surname(s): **Diogo Santos Faria**
 Name: **Melissa Paula**
 Email: **mdfqam@cid.csic.es**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Department: Institute of Environmental Assessment and Water Research (IDAEA), Centro de Investigación y Desarrollo

Professional category: PostDocoral Fellow

Start date: 21/12/2017

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

Primary (UNESCO code): 240000 - Life Science

Secondary (UNESCO code): 230600 - Organic chemistry

Performed tasks: Screening for developmental neutotoxicity (DNT) in zebrafish of an array of classical and emerging environmental pollutants, including organohalogenate and organophosphate pesticides, pharmaceuticals and engineered nanoparticles, by assessing changes in the motor behaviour in the larvae, juveniles and adults exposed during early development. Deciphering the pathophysiological mechanisms associated with the impaired motor function by combining organism, cell biology and transcriptomic approaches and assessing the ability of the models commonly used in mixture toxicity to predict the effect of mixtures of environmental chemicals inducing DNT through similar and/or dissimilar modes of action. Collaboration with other national and foreign research institutes (USA, Mexico, France, Israel). Data integration and analysis Elaboration of scientific manuscripts. International congress presentations. Training and coordination of undergraduate students as well as 5 Master (co-supervisor of one) and one PhD student

Previous positions and activities

	Employing entity	Professional category	Start date
1	Fundacao Ciencia e Tecnologia (FCT), Portugal	PostDoctoral Fellow	2015
2	Fundacao Ciencia e Tecnologia (FCT), Portugal	PostDoctoral Fellow	2012
3	Concejo Superior de Investigaciones Científicas (CSIC)	Professional and Technical Activities Contract	26/01/2009
4	Centro of Research and Innovation in Toxicology, Universitat Politècnica de Catalunya (CRIT-UPC), now called (INTEXTER)	Technician	01/05/2006
5	Interdisciplinary Centre of Marine and Environmental Research (CIIMAR)	Technician	01/06/2005

- 1** **Employing entity:** Fundacao Ciencia e Tecnologia (FCT), Portugal **Type of entity:** University
Department: Centre for Environmental and Marine Studies, University of Aveiro
City employing entity: Aveiro, Norte, Portugal
Professional category: PostDoctoral Fellow **Educational Management (Yes/No):** No
Start-End date: 2015 - 2017 **Duration:** 3 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: Study of emerging effects of organophosphorus chemicals during zebrafish's (Danio rerio) early developmental stages. Deciphering the mechanism of toxicity of neuropathic OPs involved in OP induced delayed neurotoxicity (OPIDN) at the molecular, cellular and organism levels, using the zebrafish larvae as a model organism, to identify new secondary targets of neuropathic OPs potentially involved in OPIDN development. Validation and analysis of the activity of neuropathy target esterase in zebrafish, carpe, siluro, hen and rodent brain tissue. Conduct toxicological tests of doses of selected neuropathic and non-neuropathic OP to establish larvae sensitivity to each selected compound, as well as study effects at different levels of organisation. Acquired knowledge on behaviour (organism) and immunocytochemistry (cellular) and certain omic technologies, transcriptomics, lipidomics and metabolomics (subcellular). Characterise morphological effect in zebrafish larvae induced a by the selected OPs. Data integration and analysis Elaboration of scientific manuscripts. International congress presentations.
Identify key words: Behavioural biology; Functional biology; Environmental biology; Cytology; Molecular biology; Exposure assessment
Applicability in teaching and/or research: Training and coordination of undergraduate, master and PhD students. Co-supervisor of Master student Marta Jacinto, entitled "Impact of the invasive macroalgae Asparagopsis armata on marine and coastal environments – an ecotoxicological assessment ", School of tourism and maritime technology of Peniche (IPL), Portugal.
- 2** **Employing entity:** Fundacao Ciencia e Tecnologia (FCT), Portugal **Type of entity:** University
Department: Centre for Environmental and Marine Studies, University of Aveiro
City employing entity: Aveiro, Norte, Portugal
Professional category: PostDoctoral Fellow **Educational Management (Yes/No):** No
Start-End date: 2012 - 2014 **Duration:** 3 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: Characterising emerging effects of pollutants in the aquatic in invertebrate and vertebrate species. Use novel toxicogenomic and ecotoxicological methods to uncover emergent effects of classic and emergent contaminants in invertebrate and fish species. Field studies and laboratory toxicological tests of classic and emerging pollutants, including nano materials, organic compounds, metals, synthetic musks and pesticides. Application of molecular transcriptomics, biochemical and cytochemical techniques. Acquired deep knowledge on zebrafish larvae development and morphology Data integration and analysis Elaboration of scientific manuscripts. International congress presentations.
Identify key words: Pollution of waterways; Organic pollution; Chemical pollution; Industrial pollution; Environmental biology; Functional biology; Exposure assessment
Applicability in teaching and/or research: Training of undergraduate and master students.
- 3** **Employing entity:** Concejo Superior de Investigaciones Científicas (CSIC) **Type of entity:** State agency
Department: Institut de Diagnosi Ambiental i Estudis de l'Aigua (IDAEA)
City employing entity: Barcelona, Catalonia, Spain
Professional category: Professional and Technical Activities Contract **Educational Management (Yes/No):** No
Phone: (+34) 934006100



Start-End date: 26/01/2009 - 31/05/2011

Duration: 2 years - 5 months - 5 days

Type of contract: Temporary employment contract

Dedication regime: Part time

Performed tasks: Responsible for Basic laboratory coordination. Field research: responsible for organising and conducting field expeditions (sample collection, dissection, preservation and analysis). Elaboration of toxicity tests, chemical and biochemical analysis. Data analysis and manuscript writing. International congress presentations.

Identify key words: Chemistry; Biological sciences

Applicability in teaching and/or research: Training of undergraduate and master students.

- 4** **Employing entity:** Centro of Research and Innovation in Toxicology, Universitat Politècnica de Catalunya (CRIT-UPC), now called (INTEXTER) **Type of entity:** University

Department: Institute of Textile Research and Industrial Cooperation of Terrassa, Universitat Politècnica de Catalunya

City employing entity: Terrassa, Catalonia, Spain

Professional category: Technician

Phone: (+34) 93 739 82 70

Start-End date: 01/05/2006 - 31/12/2008

Duration: 2 years - 7 months

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

Primary (UNESCO code): 240000 - Life Science

Performed tasks: Responsible for organising and conducting field expeditions (sample collection, dissection, preservation and analysis). Elaboration of toxicity tests and biochemical analysis. Data analysis and manuscript writing. International congress presentations.

Identify key words: Natural sciences and health sciences

- 5** **Employing entity:** Interdisciplinary Centre of Marine and Environmental Research (CIIMAR) **Type of entity:** University Research Institute

Department: Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), University of Oporto

City employing entity: Oporto, Norte, Portugal

Professional category: Technician

Start-End date: 01/06/2005 - 21/03/2006

Duration: 9 months - 21 days

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

Dedication regime: Part time

Primary (UNESCO code): 240000 - Life Science

Performed tasks: Internship: conducting field expeditions (sample collection, dissection, preservation and analysis).

Identify key words: Natural sciences and health sciences



Education

University education

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

- 1 University degree:** Higher degree
Name of qualification: Master Ciencias del Mar: Oceanografía y Gestión del Medio Ambiente (Coastal and Marine Engineering and Management)
Degree awarding entity: Universitat Politècnica de Catalunya **Type of entity:** University
Date of qualification: 09/10/2007
Average mark: Good
- 2 University degree:** Higher degree
Name of qualification: Licenciatura em Biologia (Licenciado en Biologia)
Degree awarding entity: Aveiro University, Portugal **Type of entity:** University
Date of qualification: 31/05/2005

Doctorates

Doctorate programme: Marine Science
Degree awarding entity: Universitat Politècnica de Catalunya **Type of entity:** University
Date of degree: 27/05/2011
Thesis title: A multibiomarker approach to characterize biological effects of pollutants on freshwater mussels and crayfish
Thesis director: Carlos Barata
Thesis co-director: Mari Carmen Riva
Obtained qualification: Cum Laude

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Curso de Experimentacion Animal - modalidades A+B+C+D+E
Awarding entity: Centro de Estudios Biosanitarios
End date: 10/04/2019 **Duration in hours:** 140 hours
- 2 Training title:** Curso de Estadística Aplicada I
Awarding entity: Agencia Estatal Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
End date: 20/04/2018 **Duration in hours:** 25 hours



- 3 Training title:** Curso Práctico en Deseño Experimental y Estadístico en Química Ambiental y Evaluación del Riesgo
Awarding entity: Universitat Politècnica de Catalunya **Type of entity:** University
End date: 22/04/2009 **Duration in hours:** 21 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	B2	B2	A2	A2	A2
Spanish	C2	C1	C1	C1	B2
English	C2	C2	C2	C2	C1
Portuguese	C2	C2	C2	C2	C2

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Développement d'une plateforme neurocomportementale chez le poisson zèbre, pour tester l'effet des composés neurotoxiques et neuroactifs
Type of project: Minor thesis
Co-director of thesis: Demetrio Raldúa
Entity: University of Toulouse III - Paul Sabatier **Type of entity:** University
Student: Juliette Bedrossiantz
Date of reading: 25/08/2018
- 2 Project title:** Estudio de la toxicidad de nanopartículas en los ríos utilizando *Hydropsyche exocellata* (O. Trichoptera) como organismo modelo
Type of project: End of course project
Co-director of thesis: Miguel Cañedo-Argüelles
Entity: Universidad de Vic **Type of entity:** University
Student: Daniel Torres
Date of reading: 06/2016
- 3 Project title:** Efectes subletals de la salinització en *Hydropsyche exocellata*
Type of project: Minor thesis
Co-director of thesis: Narcís Prat; Miguel Cañedo-Argüelles
Entity: Universitat de Barcelona **Type of entity:** University
Student: Miquel Sala
Date of reading: 14/09/2015
- 4 Project title:** Impact of the Invasive macroalga *Asparagopsis armata* – an ecotoxicological assessment
Type of project: Minor thesis
Co-director of thesis: Melissa Faria
Entity: Escola Superior de Turismo e Tecnologia do Mar **Type of entity:** University e o Instituto Politécnico de Leiria (IPL), Portugal.
Student: Marta Sofia da Cruz Jacinto
Date of reading: 13/05/2015



- 5** **Project title:** Ecotoxicological effects of Barcelona harbor sediments in Capitella teleta
Type of project: Minor thesis
Co-director of thesis: Carlos Barata; Marco Filipe Lemos
Entity: Escola Superior de Turismo e Tecnologia do Mar e o Instituto Politécnico de Leiria (IPL), Portugal
Type of entity: University
City of entity: Peniche, Centro (P), Portugal
Student: Isa Daniel Luis Gomes
Date of reading: 17/12/2013
- 6** **Project title:** Utilización de Biomarcadores para evaluar el estado fisiológico de la ostra en el delta del Ebro
Type of project: Doctoral thesis
Co-director of thesis: Mari Carmen Riva; Carlos Barata
Entity: Centro de recerca i Innovació en Toxicologia - Universitat Politècnica de Catalunya
Type of entity: University
City of entity: Terrassa, Catalonia, Spain
Student: Victoria Ochoa
Date of reading: 13/10/2012
- 7** **Project title:** Assessing complex brain disorders induced by pollutants using zebrafish as model organism
Type of project: Minor thesis
Co-director of thesis: Melissa Faria
Entity: Universitat de Barcelona
Type of entity: University
City of entity: Barcelona, Catalonia, Spain
Student: Melissa Melissa

Other activities/achievements not included above

- 1** **Description of the activity:** Escolab (36h) - Hands-on Workshop for high school students: Biomarkers of Oxidative stress, measurement of Catalase activity
Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
End date: 2019
- 2** **Description of the activity:** Semana de la ciencias 2018 - Workshop on biomarkers of oxidative stress, measurement of Catalase activity (8 hours)
Organising entity: Consejo Superior de Investigaciones Científicas - CSIC
Type of entity: State agency
End date: 09/11/2018
- 3** **Description of the activity:** CSIC en el aula workshop (8h) - teaching high school students how exposure to contaminants can be harmful for the environment and human health
Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
End date: 2016



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:** Development of medium- and high-throughput methodologies for chemical risk assessment in aquatic ecosystems: neurobehavioural effects and pathophysiology mechanisms in zebrafish and *Daphnia magna*

Entity where project took place: INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Demetrio Raldúa; Carlos Barata

Nº of researchers: 2

Funding entity or bodies:
Fondo Europeo de Desarrollo Regional - FEDER

Start-End date: 2018 - 2020

Total amount: 228.680 €
- 2** **Name of the project:** Knowing the enemy: a mechanistic approach to fight against OPIDN

Entity where project took place: INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Demetrio Raldúa

Funding entity or bodies:
The North Atlantic Treaty Organization - NATO

City funding entity: Brussels, Belgium

Start-End date: 2015 - 10/2018

Total amount: 324.105 €
- 3** **Name of the project:** EMRISKS: Mechanistically-based environmental risk assessment: towards an omics-driven solution for an effective management of chemical risks

Entity where project took place: INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Carlos Barata; Demetrio Raldúa

Nº of researchers: 2

Funding entity or bodies:
Fondo Europeo de Desarrollo Regional - FEDER

Start-End date: 2015 - 2018

Total amount: 175.000 €



- 4** **Name of the project:** Impacto de los plaguicidas en el recurso hídrico de la zona baja de la cuenca del Río Tempisque (Palo Verde) Costa Rica. CURSA - CSIC (2008CR0015)
Entity where project took place: IRET - Universidad Nacional de Costa Rica **Type of entity:** University Research Institute
City of entity: Heredia, Costa Rica
Nº of researchers: 8
Start-End date: 2009 - 2010
Total amount: 20.000 €
- 5** **Name of the project:** Study of the genetic structure and ecological differentiation of spanish zebra mussel (*Dreissena polymorpha*) populations due to natural or anthropogenic environmental factors. CEBRAPOP
Entity where project took place: Universitat de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Amparo Torreblanca
Funding entity or bodies: Ministerio de Medio Ambiente, y Medio Rural y Marino **Type of entity:** State agency
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 2008 - 2010
Total amount: 690.141,9 €
- 6** **Name of the project:** Ecological risk assessment of pesticides in natural and exploited invertebrate communities in the Ebro Delta and areas of influence. Scientific basis for their environmental management (DELTATOX)
Entity where project took place: Instituto de Investigación Textil y Cooperación Industrial **Type of entity:** University Research Institute
Name principal investigator (PI, Co-PI....): Mari Carmen Riva
Funding entity or bodies: Ministerio de Educación, Cultura y Deporte
Start-End date: 2007 - 2010
Total amount: 135.641 €
- 7** **Name of the project:** Evaluation of the impact of mercury in ecosystems of high interest (EMECO)
Entity where project took place: Centro de Investigación y Desarrollo **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Sergi Diez
Funding entity or bodies: Fundación BBVA **Type of entity:** Foundation
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 2007 - 2009
Total amount: 150.000 €
- 8** **Name of the project:** Study of specific response mechanisms of the zebra mussel (*Dreissena polymorpha*) and native nauplii in the presence of either natural or anthropogenic environmental impacts
Entity where project took place: INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Carlos Barata
Funding entity or bodies: Spanish Ministry of the Environment

**Start-End date:** 2007 - 2009**Total amount:** 312.533 €

- 9 Name of the project:** Development of ecological test to measure stress in Ebro river organisms between Ribarroja Dam and the river Delta, and analysis of chemical risk due to impact of toxic sediments present in the Flix Dam (MOBITROF)

Entity where project took place: Centro de Investigación y Desarrollo**Type of entity:** State agency**Name principal investigator (PI, Co-PI....):** Juan Grimalt**N° of researchers:** 100**Funding entity or bodies:**

Spanish Ministry of the Environment

Type of entity: State agency**Start-End date:** 2005 - 2008**Total amount:** 220.000 €

- 10 Name of the project:** EELEANORA, Portugal. Pollution impact in three eel populations from three main portugues riverers, Douro, Lima and Minho

Entity where project took place: CIIMAR (Centro Interdisciplinar de Investigação Marinha e Ambiental)**City of entity:** Oporto, Norte, Portugal**Name principal investigator (PI, Co-PI....):** Lucia Guilhermino**Funding entity or bodies:**

Fundacao para a Ciência e Tecnologia - FCT, Portugal

Type of entity: Foundation**Start-End date:** 2002 - 2005**Total amount:** 64,38 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Melissa Faria; Juliette Bedrossiantz; Eva Prats; Xavier Rovira Garcia; Cristian Gómez-Canela; Benjamin Piña; Demetrio Raldúa. Deciphering the mode of action of pollutants impairing the fish larvae escape response with the vibrational startle response assay. Science of the Total Environment. 672, pp. 121 - 128. ScienceDirect, 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Melissa Faria; Eva Prats; Karen Adriana Novoa-Luna; Juliette Bedrossiantz; Gómez-Canela Gómez-Canela; Leobardo Manuel Gómez-Oliván; Demetrio Raldúa. Development of a vibrational startle response assay for screening environmental pollutants and drugs impairing predator avoidance. Science of The Total Environment. 650, pp. 87 - 96. Elsevier, 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 3** Melissa Faria; Arnau Valls; Eva Prats; Juliette Bedrossiantz; Manuel Orozco; Josep M. Porta; Leobardo Manuel Gómez-Oliván; Demetrio Raldúa. Further characterization of the zebrafish model of acrylamide acute neurotoxicity: gait abnormalities and oxidative stress. Scientific Reports. 9 - 1 - 7075, Nature, 2019.



Type of production: Scientific paper

Format: Journal

- 4** Eva Prats; Melissa Faria; Tamar Ziv; Cristian Gómez-Canela; Shani Ben-Lulu; Karen Adriana Novoa-Luna; Arie Admon; Benjamin Piña; Romà Tauler; Gómez-Oliván Gómez-Oliván; Demetrio Raldúa. Acrylamide acute neurotoxicity in adult zebrafish. *Scientific Reports*. 8 - 7918, Nature, 2018.

Type of production: Scientific paper

Format: Journal

- 5** Melissa Faria; Inmaculada Fuertes; Eva Prats; Jose Luis Abad; Francesc Padrós; Cristian Gomez-Canela; Josefina Casas; Jorge Estevez; Eugenio Vilanova; Benjamin Piña; Demetrio Raldúa. Analysis of the neurotoxic effects of neuropathic organophosphorus compounds in adult zebrafish. *Scientific Reports*. 8 - 4844, Nature, 2018.

Type of production: Scientific paper

Format: Journal

- 6** Melissa Faria; Amadeu M.V.M Soares; Nuno Caiola. Effects of *Camellia sinensis* crude saponin on survival and biochemical markers of oxidative stress and multixenobiotic resistance of the Mediterranean mussel, *Mytilus galloprovincialis*. *Science of The Total Environment*. 625, pp. 1467 - 1475. Elsevier, 2018.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 7** Melissa Faria; Eva Prats; Francesc Padrós; Amadeu M.V.M. Soares; Demetrio Raldúa. Zebrafish is a predictive model for identifying compounds that protect against brain toxicity in severe acute organophosphorus intoxication. *Archives of Toxicology*. 91 - 4, pp. 1891 - 1901. Springer, 2017.

Type of production: Scientific paper

Format: Journal

- 8** Miguel Cañedo-Argüelles; Miquel Sala; Gabriela Peixoto; Narcís Prat; Melissa Faria; Amadeu MVM Soares; Carlos Barata; Ben Kefford. Can salinity trigger cascade effects on streams? A mesocosm approach. *Science of The Total Environment*. 540, pp. 3 - 10. Elsevier, 2016.

Type of production: Scientific paper

Format: Journal

- 9** Sala, M; Faria, M; Sarasúa, I; Barata, C; Bonada, N; Brucet, S; Llenas, L; Ponsá, S; Prat, N; Soares, A.M.V.M; Cañedo-Argüelles, M. Chloride and sulphate toxicity to *Hydropsyche exocellata* (Trichoptera, Hydropsychidae): Exploring intraspecific variation and sub-lethal endpoints. *Science of the Total Environment*. 566, pp. 1032 - 1041. Elsevier, 2016.

Type of production: Scientific paper

Format: Journal

- 10** 7. Garcia-Reyero, N; Escalon, L; Prats, E; Faria, M; Soares, A.M.V.M; Raldúa, D. Targeted Gene Expression in Zebrafish Exposed to Chlorpyrifos-Oxon Confirms Phenotype-Specific Mechanisms Leading to Adverse Outcomes. *Bulletin of Environmental Contamination & Toxicology*. 96 - 6, pp. 707 - 713. Springer, 2016.

Type of production: Scientific paper

Format: Journal

- 11** Faria, M; Pavlichenko, V; Burkhardt-Medicke, K; Soares, A.M.V.M; Altenburger, R; Barata, C; Luckenbach, T. Use of a combined effect model approach for discriminating between ABCB1- and ABCC1-type efflux activities in native bivalve gill tissue. *Toxicology and Applied Pharmacology*. 297, pp. 56 - 67. Elsevier, 2016.

Type of production: Scientific paper

Format: Journal

- 12** Rivetti, C; Campos, B; Faria, M; De Castro Català, N; Malik, A; Muñoz, I; Tauler, R; Soares, AMVM; Osorio, V; Perez, S; Gorga, M; Petrovic, M; Mastroianni, N; de Alda, ML; Masía, A; Campo, J; Pico, Y; Guasch, H; Barceló, D; Barata, C. Transcriptomic, biochemical and individual markers in transplanted *Daphnia magna* to characterize impacts in the field. *Science of the Total Environment*. 503, pp. 200 - 212. Elsevier, 2015.

Type of production: Scientific paper

Format: Journal



- 13** Faria, M; Garcia-Reyero, N; Padrós, F; Babin, PJ; Sebastián, D; Cachot, J; Prats, E; Arick II, M; Rial, E; Knoll-Gellida, A; Mathieu, G; Le Bihanic, F; Escalon, BL; Zorzano, A; Soares, AMVM; Raldúa, D. Zebrafish Models for Human Acute Organophosphorus Poisoning. *Scientific Reports*. 5, pp. 15591. Nature, 2015.
Type of production: Scientific paper **Format:** Journal
- 14** Jaumot, J; Navarro, A; Faria, M; Barata, C; Tauler, R; Piña, B. qRT-PCR evaluation of the transcriptional response of zebra mussel to heavy metals. *BMC Genomics*. 16 - 1, pp. 354. BioMed Central, 2015.
Type of production: Scientific paper **Format:** Journal
- 15** Gomes, IDL; Lemos, MFL; Soares, AMVM; Díez, S; Barata, C; Faria, M. Effects of Barcelona harbor sediments in biological responses of the polychaete *Capitella teleta*. *Science of the Total Environment*. 485-486, pp. 545 - 553. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 16** Faria, M; Navas, JM; Soares, AMVM; Barata, C. Oxidative stress effects of titanium dioxide nanoparticle aggregates in zebrafish embryos. *Science of the Total Environment*. 470-471, pp. 379 - 389. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 17** Mena, F; Fernández San Juan, M; Campos, B; Sánchez-Ávila, J; Faria, M; Pinnock, M; de la Cruz, E; Lacorte, S; Soares, AMVM; Barata, C. Pesticide residue analyses and biomarker responses of native Costa Rican fish of the Poeciliidae and Cichlidae families to assess environmental impacts of pesticides in Palo Verde National Park. *Journal of Environmental Biology*. 35, pp. 19 - 27. Triveni Enterprises, 2014.
Type of production: Scientific paper **Format:** Journal
- 18** Faria, M; Ochoa, V; Blázquez, M; Fernandes San Juan, M; Lazzara, R; Lacorte, S; Soares, AMVM; Barata, C. Separating natural from anthropogenic causes of impairment in Zebra mussel (*Dreissena polymorpha*) populations living across a pollution gradient. *Aquatic Toxicology*. 152, pp. 82 - 95. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
- 19** Gomes, IDL; Lemos, MFL; Soares, AMVM; Barata, C; Faria, M. The use of cholinesterase as potential biomarker: In vitro characterization in the polychaete *Capitella teleta*. *Marine Pollution Bulletin*. 85, pp. 179 - 185. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 20** Oliveira, E; Casado, M; Faria, M; Soares, AMVM; Navas, JM; Barata, C; Piña, B. Transcriptomic response of zebrafish embryos to polyaminoamine (PAMAM) dendrimers. *Nanotoxicology*. 8 - suppl. 1, pp. 92 - 99. Informa Healthcare, 2014.
Type of production: Scientific paper **Format:** Journal
- 21** Fernández-Sanjuan, M; Faria, M; Lacorte, S; Barata, C. Bioaccumulation and effects of perfluorinated compounds (PFCs) in zebra mussels (*Dreissena polymorpha*). *Environmental Science and Pollution Research*. 20 - 4, pp. 2661 - 2669. Springer, 2013.
Type of production: Scientific paper **Format:** Journal
- 22** Navarro, A; Sánchez-Fontenla, J; Cordero, D; Faria, M; Peña, JB; Saavedra, C; Blázquez, M; Ruíz, O; Ureña, R; Torreblanca, A; Barata, C; Piña, B. Genetic and phenotypic differentiation of zebra mussel populations colonizing Spanish river basins. *Ecotoxicology*. 22 - 5, pp. 915 - 928. Springer, 2013.
Type of production: Scientific paper **Format:** Journal



- 23** Ochoa, V; Riva, MC; Faria, M; Barata, C. Responses of B-esterase enzymes in oysters (*Crassostrea gigas*) transplanted to pesticide contaminated bays from the Ebro Delta (NE, Spain). *Marine Pollution Bulletin*. 66, pp. 135 - 142. Elsevier, 2013.
Type of production: Scientific paper **Format:** Journal
- 24** Navarro, A; Weißbach, S; Faria, M; Barata, C; Piña, B; Luckenbach, T. Abcb and Abcc transporter homologs are expressed and active in larvae and adults of zebra mussel and induced by chemical stress. *Aquatic Toxicology*. 122-123, pp. 144 - 152. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
- 25** Ochoa, V; Riva, MC; Faria, M; López del Alda, M; Barceló, D; Fernandez Tejedor, M; Roque, A; Barata, C. Are pesticide residues associated to rice production affecting oyster production in Delta del Ebro, NE Spain?. *Science of the Total Environment*. 437, pp. 209 - 218. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
- 26** Porte, C; Lazzara, R; Fernandes, D; Faria, M; López, JF; Tauler, R. Changes in lipid content and fatty acid composition along the reproductive cycle of the freshwater mussel *Dreissena polymorpha*: Its modulation by clofibrate exposure. *Science of the Total Environment*. 432, pp. 195 - 201. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
- 27** Faria, M; Navarro, A; Luckenbach, T; Piña, B; Barata, C. Characterization of the multixenobiotic resistance (MXR) mechanism in embryos and larvae of the zebra mussel (*Dreissena polymorpha*) and studies on its role in tolerance to single and mixture combinations of toxicants. *Aquatic Toxicology*. 101, pp. 78 - 87. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal
- 28** Navarro, A; Faria, M; Barata, C; Piña, B. Transcriptional response of stress genes to metal exposure in zebra mussel larvae and adults. *Environmental Pollution*. 159, pp. 100 - 107. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal
- 29** Faria, M; López, MA; Barata, C. Are native naiads more tolerant to pollution than exotic freshwater bivalve species? An hypothesis tested using physiological responses of three species transplanted to mercury contaminated sites in the Ebro River (NE, Spain). *Chemosphere*. 81 - 10, pp. 1218 - 1226. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal
- 30** Gravato, C; Guimaraes, L; Santos, J; Faria, M; Alves, A; Guilhermino, L. Comparative study about the effects of pollution on glass and yellow eels (*Anguilla anguilla*) from the estuaries of Minho, Lima and Douro Rivers (NW Portugal). *Ecotoxicology and Environmental Safety*. 73 - 4, pp. 524 - 533. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal
- 31** Faria, M; López, MA; Fernández –Sanjuán, M; Lacorte, S; Barata, C. Comparative toxicity of single and combined mixtures of selected pollutants among larval stages of the native freshwater mussels (*Unio elongatulus*) and the invasive zebra mussel (*Dreissena polymorpha*). *Science of the Total Environment*. 408, pp. 2452 - 2458. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal
- 32** Faria, M; Huertas, D; Soto, D; Grimalt, JO; Català, J; Riva, MC; Barata, C. Contaminant accumulation and multi-biomarker responses in field collected zebra mussels (*Dreissena polymorpha*) and crayfish (*Procambarus clarkii*), to evaluate toxicological effects of industrial hazardous dumps in the Ebro river (NE Spain). *Chemosphere*. 78, pp. 232 - 240. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal



- 33** Olivares, A; Quirós, L; Pelayo, S; Navarro, A; Bosch, C; Grimalt, JO; Fabregat, MC; Faria, M; Benejam, L; Benito, J; Solé, M; Barata, C; Piña, B. Integrated biological and chemical analysis of organochlorine compound pollution and of its biological effects in a riverine system downstream the discharge point. *Science of the Total Environment*. 408, pp. 5592 - 5599. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal
- 34** Fernández-Sanjuan, M; Meyer, J; Damasio, J; Faria, M; Barata, C; Lacorte, S. Screening of perfluorinated chemicals (PFCs) in various aquatic organisms. *Analytical and Bioanalytical Chemistry*. 398, pp. 1447 - 1456. Springer, 2010.
Type of production: Scientific paper **Format:** Journal
- 35** Boscha, C; Olivares, A; Faria, M; Navas, JM; Olmob, I; Grimalta, JO; Pina, B; Barata, C. Identification of water soluble and particle bound compounds causing sublethal toxic effects. A field study on sediments affected by a chlor-alkali industry. *Aquatic Toxicology*. 94, pp. 16 - 27. Elsevier, 2009.
Type of production: Scientific paper **Format:** Journal
- 36** Faria, M; Carrasco, L; Diez, S; Riva, MC; Barata, C. Multi-biomarker responses in the freshwater mussel *Dreissena polymorpha* exposed to polychlorobiphenyls and metals. *Comparative Biochemistry and Physiology Part C*. 149, pp. 281 - 288. Elsevier, 2009.
Type of production: Scientific paper **Format:** Journal
- 37** Navarro, A; Quirós, L; Casado, M; Faria, M; Carrasco, L; Benejam, L; Benito, J; Diez, S; Raldúa, D; Barata, C; Bayona, JM; Piña, B. Physiological responses to mercury in feral carp populations inhabiting the low Ebro River (NE Spain), a historically contaminated site. *Aquatic Toxicology*. 93, pp. 150 - 157. Elsevier, 2009.
Type of production: Scientific paper **Format:** Journal
- 38** Raldúa, D; Barata, C; Casado, M; Faria, M; Navas, JM; Olivares, A; Oliveira, E; Pelayo, S; Thienpont, B; Piña, B. Zebrafish as a Vertebrate Model to Assess Sublethal Effects and Health Risks of Emerging Pollutants. In *Emerging Organic Contaminants and Human Health*. pp. 395 - 414. Springer, 2012.
Type of production: Scientific book or monograph **Format:** Book
- 39** Piña, B; Raldúa, D; Barata, C; Faria, M; Navarro, A; Damasio, J; Olivares, A; Quirós, L; Pelayo, S; Casado, M. Biological Effects of Chemical Pollution in Feral Fish and Shellfish Populations from Ebro River: From Molecular to Individual Level Responses. *The Handbook of Environmental Chemistry*. pp. 275 - 293. The Ebro River Basin, 2011.
Type of production: Scientific book or monograph **Format:** Book
- 40** Gravato, C; Faria, M; Alves, A; Santos, J; Guilhermino, L. Biomonitoring studies performed with European eel populations from the estuaries of Minho, Lima and Douro rivers (NW Portugal). *Advanced Environmental Monitoring*. pp. 390 - 401. Springer, 2008.
Type of production: Scientific book or monograph **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** Acrylamide acute neurotoxicity in adult zebrafish
Name of the conference: 11th Congreso Iberico, 8º Iberoamericano de Contaminacion y Toxicologia Ambiental – CICTA
City of event: Madrid, Community of Madrid, Spain
Date of event: 11/07/2018
End date: 13/07/2019

Type of entity: University



Organising entity: Escuela Superior de Ingeniería de Montes, Forestal y del Medio Ambiente, Universidad Politécnica de Madrid

Faria, M; Ziv, T; Gómez-Canela, C; Ben-Lulu, S; Prats, E; Novoa-Luna, KA; Admon, A; Piña, B; Tauler, R; Gómez-Oliván, LM; Raldúa, D. "Platform Presentation".

- 2 Title of the work:** Development and prevalidation of a zebrafish assay for identifying chemicals impairing the non-associative learning

Name of the conference: 11th Congreso Iberico, 8º Iberoamericano de Contaminacion y Toxicologia Ambiental – CICTA

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 11/07/2018

End date: 13/07/2018

Organising entity: Escuela Superior de Ingeniería de Montes, Forestal y del Medio Ambiente, Universidad Politécnica de Madrid. **Type of entity:** University

Faria, M; Prats, E; Novoa-Luna, KA; Bedrossiantz, J; Raldúa, D. "Platform Presentation".

- 3 Title of the work:** Zebrafish provides a predictive model for identification of drugs providing neuroprotection in human severe acute organophosphorus poisoning

Name of the conference: 30th New European Society for Comparative Physiology and Biochemistry

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 04/09/2016

End date: 07/09/2016

Organising entity: INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA **Type of entity:** State agency

Faria, M; Prats, E; Padrós, F; Soares, AMVM; Raldúa, D. "Platform Presentation".

- 4 Title of the work:** Zebrafish Models For Human Acute Organophosphorus Poisoning

Name of the conference: SETAC North America 36th Annual Meeting

City of event: Salt Lake City, United States of America

Date of event: 01/11/2015

End date: 05/11/2015

García-Reyero, N; Faria, M; Arick, M; Padrós, F; Babin, PJ; Sebastián, D; Cachot, J; Prats, E; Rial, E; Knoll-Gellida, A; Mathieu, G; Le Bihanic, F; Zorzano, A; Soares, AMVM; Raldúa, D. "Platform Presentation".

- 5 Title of the work:** Zebrafish Models For Human Acute Organophosphorus Poisoning

Name of the conference: 4th Annual ASCCT Meeting: Integrated Approaches to Testing and Assessment: Promises and Challenges of a More Flexible Approach to Toxicology Testing

City of event: Durham, United States of America

Date of event: 01/10/2015

End date: 02/10/2015

García-Reyero, N; Faria, M; Padrós, F; Babin, PJ; Sebastián, D; Cachot, J; Prats, E; Arick, M; Rial, E; Knoll-Gellida, A; Mathieu, G; Le Bihanic, F; Escalon, L; Zorzano, A; Soares, AMVM; Raldúa, D. "Platform Presentation".

- 6 Title of the work:** A proposal for prophylaxis and treatments for acute organophosphate poisoning using the vertebrate model zebrafish

Name of the conference: 12th International Meeting on Cholinesterases - 6th International Conference on Paraoxonases

Corresponding author: Yes



City of event: Elche (Alicante), Valencian Community, Spain

Date of event: 27/09/2015

End date: 02/10/2015

Faria, M; Prats, E; Soares, AMVM; Raldúa, D. "Platform Presentation".

- 7** **Title of the work:** Zebrafish Models For Human Acute Organophosphorus Poisoning
Name of the conference: 12th International Meeting on Cholinesterases-6th International Conference on Paraxonases
City of event: Elche (Alicante), Valencian Community, Spain
Date of event: 27/09/2015
End date: 02/10/2015
Faria, M; Garcia-Reyero, N; Padrós, F; Babin PJ; Sebastián, D; Cachot, J; Prats, E; Rial, E; Knoll-Gellida, A; Mathieu, G; Arick, M; Escalon, L; Zorzano, A; Soares, AMVM; Raldúa, D. "Platform Presentation".
- 8** **Title of the work:** Characterization of a zebrafish model for acute organophosphorus poisoning
Name of the conference: 25th - Society of Environmental Toxicology and Chemistry (SETAC)
Corresponding author: Yes
City of event: Barcelona, Catalonia, Spain
Date of event: 03/05/2015
End date: 07/05/2015
Faria, M; Prats, E; Padrós, F; Babin PJ; Cachot, J; Garcia-Reyero, N; Knoll-Gellida, A; Mathieu, G; Tingaud-Sequeira, A; Le Bihanic, F; Soares, AMVM; Raldúa, D. "Platform Presentation".
- 9** **Title of the work:** Sub-lethal effects of acute salinity exposure on stream invertebrates: predation as a case study
Name of the conference: 25th - Society of Environmental Toxicology and Chemistry (SETAC)
City of event: Barcelona, Catalonia, Spain
Date of event: 03/05/2015
End date: 07/05/2015
Cañedo-Argüelles, M; Peixoto, G; Sala, M; Prat, N; Faria, M; Soares, AMVM; Barata, C; Kefford, B. "Platform Presentation".
- 10** **Title of the work:** Effects of acute salinity exposure on invertebrate predation efficiency
Name of the conference: 24th - Society of Environmental Toxicology and Chemistry (SETAC)
City of event: Basle, Swaziland
Date of event: 11/05/2014
End date: 15/05/2014
Cañedo-Argüelles, M; Peixoto, G; Kefford, B; Faria, M; Soares, AMVM; Barata, C; Prat, N. "Poster".
- 11** **Title of the work:** Development of oxidative stress biomarkers in developing zebra fish Danio rerio embryos
Name of the conference: International Conference on Chemistry and the Environment - ICCE
Corresponding author: Yes
City of event: Barcelona, Catalonia, Spain
Date of event: 25/05/2013
End date: 28/05/2013
Faria, M; Soares, AMVM; Barata, C. "Platform Presentation".
- 12** **Title of the work:** Métodos biológicos para evaluar el estado ecológico de las comunidades ribereñas en zonas piñeras del Caribe de Costa Rica
Name of the conference: VIII Congreso Iberico, V Iberoamericano de Contaminación y Toxicología Ambiental – CICTA



City of event: Heredia, Costa Rica

Date of event: 29/11/2010

End date: 04/12/2010

Organising entity: Universidad Nacional, Costa Rica

Echeverría-Sáenz, S; Mena, F; Faria, M; Pinnock, M; Barata, C; de la Cruz, E. "Platform Presentation".

- 13** **Title of the work:** Characterization of multixenobiotic resistance mechanisms in embryos and larvae of zebra mussels (*D. polymorpha*). Their role in tolerance to single and mixture combinations of toxicants
Name of the conference: 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
Corresponding author: Yes
City of event: Seville, Andalusia, Spain
Date of event: 23/05/2010
End date: 27/05/2010
Faria, M; Navarro, A; Luckenbach, T; Piña, B; Barata, C. "Platform Speaker".
- 14** **Title of the work:** Coordinate regulation of stress genes upon metal exposure in larvae and adult zebra mussel
Name of the conference: 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
City of event: Seville, Andalusia, Spain
Date of event: 23/05/2010
End date: 27/05/2010
Navarro, A; Faria, M; Barata, C; Piña, B. "Poster".
- 15** **Title of the work:** Cholinesterase activities in common oyster (*Crassostrea gigas*) cultured in the Ebro Delta (Spain): Application to biomonitoring
Name of the conference: 19th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
City of event: Goteborg, Sweden
Date of event: 31/05/2009
End date: 04/06/2009
Ochoa, V; Faria, M; Barata, C; Riva, MC. "Poster".
- 16** **Title of the work:** Development of molecular biomarkers to characterize pollution effects in Zebra Mussel (*Dreissena polymorpha*)
Name of the conference: 19th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
City of event: Goteborg, Sweden
Date of event: 31/05/2009
End date: 04/06/2009
Navarro, A; Faria, M; Piña, B; Barata, C. "Poster".
- 17** **Title of the work:** Embryo toxicity of environmentally relevant contaminants may prevent the expansion of zebra mussel (*Dreissena polymorpha*) populations in Ebro River (NE Spain).
Name of the conference: 19th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
Corresponding author: Yes
City of event: Goteborg, Sweden
Date of event: 31/05/2009
End date: 04/06/2009
Faria, M; Barata, C. "Poster".



- 18** **Title of the work:** Comparative study of the physiological responses of freshwater bivalves to point source pollution in the Ebro River (NE Spain): A native naiad (*Psilunio littoralis*) vs introduced species (*Dreissena polymorpha* and *Corbicula fluminea*)
Name of the conference: International Symposium of the Freshwater Mollusk Conservation Society - 6th Biennial Symposium of the FMCS
City of event: Baltimore, United States of America
Date of event: 19/04/2009
End date: 24/04/2009
Faria, M; López, MA; Barata, C. "Poster".
- 19** **Title of the work:** Combined use of gene and biochemical bio-markers to evaluate environmental hazards of organochlorine and metallic contaminant residues from a chlor-alkaly-mercury cell plant in river biota including invertebrate, fish and aquatic birds
Name of the conference: 18th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
City of event: Warsaw, Poland
Date of event: 25/05/2008
End date: 29/05/2008
Barata, C; Quirós, L; Faria, M; Navarro, A; Solé, M; Riva, MC; Ruiz, X; Piña, B. "Platform Presentation".
- 20** **Title of the work:** Eco-Toxicity of sediments collected across the lower parte of the Ebro river between the Ribaraja reservoir and the Delta
Name of the conference: Industrial Pollution in Rivers. Effects on Water quality, Biota and Agricultura
City of event: Terragona, Catalonia, Spain
Date of event: 06/02/2008
End date: 08/02/2008
Barata, C; Olivares, A; Faria, M; Navas, JM; del Olmo, I; Riva, MC; Piña, B. "Platform Presentation".
- 21** **Title of the work:** Environmental hazards of organochlorine and metallic contaminant residues from a mercury cell chlor-alkali plant in aquatic invertebrate species in the lower part of Ebro river. A multi-biomarker approach
Name of the conference: Industrial Pollution in Rivers. Effects on Water quality, Biota and Agriculture
Corresponding author: Yes
City of event: Terragona, Spain
Date of event: 06/02/2008
End date: 08/02/2008
Faria, M; Riva, MC; Barata, C. "Platform Presentation".
- 22** **Title of the work:** The integrated use of batteries of specific biochemical markers to characterize biological effects of persistent organic and inorganic pollutants in Zebra mussel (*Dreissena polymorpha*).
Name of the conference: Industrial Pollution in Rivers. Effects on Water quality, Biota and Agriculture
Corresponding author: Yes
City of event: Terragona, Spain
Date of event: 06/02/2008
End date: 08/02/2008
Faria, M; Riva, MC; Barata, C. "Poster".
- 23** **Title of the work:** The integrated use of batteries of specific biochemical markers to characterize biological effects of persistent organic and inorganic pollutants in Zebra mussel (*Dreissena polymorpha*).
Name of the conference: 17th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe



Corresponding author: Yes
City of event: Oporto, Norte, Portugal
Date of event: 20/05/2007
End date: 24/05/2007
Faria, M; Grimalt, J; Barata, C. "Poster".

- 24** **Title of the work:** Biomonitoring studies performed with European eel populations from the estuaries of Minho, Lima and Douro rivers (NW Portugal).
Name of the conference: The 6th International Symposium on Advanced Environmental Monitoring – ADEMRC
City of event: Heidelberg, Germany
Date of event: 27/06/2006
End date: 30/06/2006
Gravato, C; Faria, M; Alves, A; Guilhermino, L. "Platform Presentation".
- 25** **Title of the work:** Oxidant/antioxidant status in European eel (*Anguilla anguilla*) populations from the estuaries of Minho, Lima and Douro rivers (NW Portugal)
Name of the conference: 16th Annual Meeting of the Society of Environmental Toxicology and Chemistry – SETAC Europe
City of event: The Hague, Holland
Date of event: 07/05/2006
End date: 11/05/2006
Alves, A; Faria, M; Gravato, C; Guilhermino, L. "Poster".
- 26** **Title of the work:** Linking biomarkers and ecological relevant parameters: juvenile sea bass chronic exposure to sub-lethal concentrations of B(a)P
Name of the conference: I Encontro Nacional de Pós-Graduação em Ciências Biológicas & V Post-Graduation Symposium
City of event: Aveiro, Norte, Portugal
Date of event: 02/05/2006
End date: 04/05/2006
Gravato, C; Alves, A; Faria, M; Santos, J; Guilhermino, L. "Platform Presentation".
- 27** **Title of the work:** Multibiomarkers to assess the physiological status of European eel populations from the estuaries of Minho, Lima and Douro rivers
Name of the conference: I Encontro Nacional de Pós-Graduação em Ciências Biológicas & V Post-Graduation Symposium
City of event: Aveiro, Norte, Portugal
Date of event: 02/05/2006
End date: 04/05/2006
Alves, A; Faria, M; Gravato, C; Guilhermino, L. "Poster".



R&D management and participation in scientific committees

Organization of R&D activities

- 1 Title of the activity:** Escolab programme - Workshop on biomarkers of oxidative stress
Type of activity: Educational
Convening entity: Consejo Superior de Investigaciones Científicas
City convening entity: Barcelona, Catalonia, Spain
Start-End date: 2017 - 2019
Type of entity: State agency
- 2 Title of the activity:** Atención: Cuidado con los contaminantes
Type of activity: evento científico
Convening entity: INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA
Start-End date: 09/11/2018 - 09/11/2018
Type of entity: State agency
- 3 Title of the activity:** El CSIC en el aula
Convening entity: Consejo Superior de Investigaciones Científicas
Start-End date: 2015 - 2016
Type of entity: State agency
- 4 Title of the activity:** Workshop – Course 3. Biomarkers of Exposure and of Endocrine disruption in fish (hands-on class),
Type of activity: Evento científico
Convening entity: VIII Congreso Iberico, V Iberoamericano de Contaminacion y Toxicologia Ambiental – CICTA
City convening entity: Heredia, Costa Rica
Start-End date: 29/11/2010 - 04/12/2010
Type of entity: University

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Journal of Hazardous Materials
- 2 Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Bulletin of Environmental Contamination and Toxicology
- 3 Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Comparative Biochemistry and Physiology - Part C: Toxicology & Pharmacology



- 4** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Ecotoxicology
- 5** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Environmental Monitoring and Assessment
- 6** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Environmental Research
- 7** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Environmental Science and Pollution Research
- 8** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Journal of Photochemistry
- 9** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Photochemistry and Photobiology B
- 10** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Science of the Total Environment
- 11** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Scientific Reports
- 12** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Aquatic Toxicology
- 13** **Name of the activity:** Peer Review
Performed tasks: Reviewer
Entity where activity was carried out: Chemosphere



Other achievements

Stays in public or private R&D centres

Entity: Universidad Nacional, Costa Rica
City of entity: Heredia, Costa Rica
Start-End date: 01/11/2010 - 06/12/2011
Goals of the stay: Doctorate

Type of entity: University
Duration: 1 month

Obtained grants and scholarships

- 1 **Name of the grant:** Beatriu de Pinós
Aims: Post-doctoral
Awarding entity: AGAUR Agència de Gestió d'Ajuts Universitaris i de Recerca - AGUAR
Conferral date: 2018 **Duration:** 2 years
End date: 2019

- 2 **Name of the grant:** FCT - Post Doctoral fellow
Aims: Post-doctoral
Awarding entity: Fundacao para a Ciência e Tecnologia - FCT **Type of entity:** Foundation
Conferral date: 2015 **Duration:** 3 years
End date: 2017
Entity where activity was carried out: University of Aveiro
Faculty, institute or centre: CESAM

- 3 **Name of the grant:** FCT - Post Doctoral fellow
Aims: Post-doctoral
Awarding entity: Fundacao para a Ciência e Tecnologia - FCT **Type of entity:** Foundation
Conferral date: 2012 **Duration:** 3 years
End date: 2014
Entity where activity was carried out: University of Aveiro
Faculty, institute or centre: CESAM

Other distinctions (professional or business career)

Description: Chair of session COMPARATIVE PHYSIOLOGY AND BIOMARKERS
Awarding entity: 30th European Society for Comparative Physiology and Biochemistry (ESCPB)
City awarding entity: Barcelona, Catalonia, Spain
Conferral date: 06/09/2016