

# ***CURRICULUM VITAE***

Name: **Maria Teresa Garrett Silveirinha Sottomayor Neuparth**


## **Professional Address:**

**CIIMAR** – Interdisciplinary Centre of Marine and Environmental Research, University of Porto.  
Terminal de Cruzeiros do Porto de Leixões  
Av. General Norton de Matos s/n  
4450-208 Matosinhos

Fax +351 22 339 06 08

Phone: +351 22 340 18 18

Email: [tneuparth@ciimar.up.pt](mailto:tneuparth@ciimar.up.pt)

Orcid : <http://orcid.org/0000-0003-3314-0184>

## **1- BIOGRAPHY:**

I am an Environmental Toxicologist dedicate to aquatic environments, and I have a scientific background in the areas of ecology, ecotoxicology, molecular biology and biochemistry. Since 2008, I have been working as postdoctoral researcher at the Interdisciplinary Center of Marine and Environmental Research (CIIMAR). I have been conducting research on environmental risk assessment with several classes of toxicants including endocrine disrupting chemicals and emerging contaminants using crustaceans and fishes as model organisms. My research have been focus in studies involving multiple and multi-level markers that combines ecological relevant endpoints (e.g. chronic, full life-cycle and transgenerational tests; embryonic development bioassays), biochemical tools, modeling and molecular biology. This has been my chief approach to investigate the long-term impact of contaminants, single and in mixtures, in the aquatic ecosystems. I was also involved in the preparedness and response to Hazardous and Noxious Substances (HNS) spills. During my PhD thesis and first Post-Doc fellowship, I have worked in genotoxicity and population genetics in foreign universities (University of Plymouth, University of Wales, Bangor, Texas Tech University and Texas A&M University). In the present days, I am also doing research on epigenetic toxicology (DNA methylation and histone modifications). To address more mechanistic issues, I have been working in linking key biological responses of emerging contaminants with chemical's mode of action.

Withal, I have been involved in science outreach, teaching and in supervising several BSc and MSc students. Additionally, I have high communication skills in Portuguese and English and experience in planning and accomplish scientific projects.

My current research interests are:

- Improving ecological risk assessment of emerging pollutants
- Development of high-throughput toxicity testing
- Mechanistic understanding of emerging pollutants effects in aquatic ecosystems
- Identification and characterization of genes and signaling pathways modulated by emerging pollutants
- Epigenetic toxicology of emerging pollutants

## **2- ACADEMIC DEGREES:**

- **Ph.D.**, Environmental Sciences, New University of Lisbon, Portugal, 2004
- **M.Sc.**, Marine Ecology, Management and Modeling, New University of Lisbon, Portugal, 2000
- **B.Sc.**, Biology, Ecology and Zoological Recourses, University of Porto, Portugal, 1993

## **3- SUMMARY OF PROFESSIONAL EXPERIENCE:**

- **CIIMAR: Postdoctoral Researcher** - "Risk assessment of priority pharmaceuticals using chronic life-cycle multigenerational studies with the model organism *Gammarus locusta*" (since January 2012)
- **CIIMAR: Scientific officer** in the scope of the Project ARCOPOL - The Atlantic Regions' Coastal Pollution Response. (May 2009-December 2011)
- **CIIMAR: Researcher** in the scope of the Project CRABTHEMES: Molecular, biochemical and genetic variability in estuarine populations of shore crab (*Carcinus maenas*) exposed to different levels of contamination (November 2008- April 2009)
- **Universidade Aberta: Tutor** of Ecology and Biology in e-learning system (since 2008)
- **IMAR-CIIMAR: Postdoctoral Researcher** - Development of Weight of Evidence (WOE) Approaches for Sediment Risk in Assessment in Sado Estuary (2007-2008)
- **University of Wales, Bangor, UK, School of Biological Sciences: Postdoctoral Researcher** - Training in methodologies of Molecular Ecology, namely, microsatellite and candidate genes (2006 - 7 months)
- **University of Plymouth, UK, School of Biological Sciences: Postdoctoral Researcher** - Assessment of genotoxic, endocrine, immunotoxic and metabolic effects of industrial effluents (2005-2006 - 12 months)
- **Universidade Nova de Lisboa, Portugal, Department of Environmental Sciences and Engineering: Research Assistant/PhD candidate** - Integrated research in Genetic Ecotoxicology using crustaceans and fish as model organisms (2000-2004)
- **Texas Tech University, USA, Institute of Environmental and Human Health: Visiting Researcher** - Application of Genetic Ecotoxicological approaches in populations of Mosquito Fish from the Brazos River watershed, Texas, USA (2003 - 6 months)
- **Texas A&M University, USA, Department of Wildlife and Fisheries Sciences: Visiting Researcher** - Learning techniques for assessing DNA damage and population genetic effects of pollution in aquatic organisms (2003 - 4 months)
- **Universidade Nova de Lisboa, Portugal, Department of Environmental Sciences and Engineering: Research Assistant/MSc candidate** - Research in Sediment Ecotoxicology testing using amphipods as model organisms (1997-2000)
- **Nestlé, Porto, Portugal: Quality Control Technician** (1995)
- **Montesinho Natural Park / Universidade do Porto, Traineeship for B.Sc. Thesis** - Population Dynamics of *Oryctolagus cuniculus* (1993-1994 - 9 months)

#### **4- TEACHING**

- **Universidade Aberta:** Tutor of Ecology and Biology in e-learning (since 2008).
- **Teacher training:** Lecture "Amphipods in ecotoxicology theory and practice", CIIMAR, 2017,
- Course in Laboratory Animals Sciences - Aquatic Organisms (**CAL-AQUA**), CIIMAR, Lecture "Handling and basic techniques –Invertebrates (Amphipoda)" (2016, 2017).
- **Universidade Nova de Lisboa**, Faculdade de Ciências e Tecnologia: Invited Lecturer for seminars in Master courses, Aquatic Toxicology subject (2001 and 2002).
- **Azevedo Neves Secondary School**, Lisbon, Teacher of Biology (1996- 1997).

#### **5- INVOLVEMENT IN RESEARCH PROJECTS**

- **CORAL** - Sustainable Ocean Exploitation: Tools and Sensors, NORTE-01-0145- FEDER-000036 financed by Northern Regional Operational Programme (NORTE2020), European Regional Development Fund (ERDF) (2016-).
- **ECORISK** – Ecological risk assessment of oils and hazardous and noxious substances in the NW Portuguese coast, ON.2 – O Novo Norte e pelo Fundo Europeu de Desenvolvimento Regional, NORTE-07-0124-FEDER-000055 (2013-2015).
- **HERA** - Environmental Risk Assessment of a contaminated estuarine environment: A case study. Financed by "Fundação Para a Ciência e Tecnologia" - FCT, Coordination IMAR (2011 - 2014).
- **ARCOPOL**- The Atlantic Regions' Coastal Pollution Response. Financed by Interreg. (May 2009- December 2011)
- **CRABTHEMES** - Molecular, biochemical and genetic variability in estuarine populations of shore crab (*Carcinus maenas*) exposed to different levels of contamination. Financed by "Fundação Para a Ciência e Tecnologia" - FCT, Coordination CIIMAR (since Nov. 2008)
- **WOE** - Weight of evidence (WOE) approaches to evaluate sediment risk assessment: Sado Estuary case study. Financed by "Fundação Para a Ciência e Tecnologia" - FCT, Coordination IMAR - New University of Lisbon (since 2006)
- **MICROSAT** - Development of population genetic markers in Dab (*Limanda limanda*) and European Flounder (*Platichthys flesus*) to assess population structure in impacted and unimpacted sites. Financed by Department for Environment, Food and Rural Affairs (DEFRA), Coordination University of Wales, Bangor, UK (since 2006)
- **ESTROGENS** - Health impacts of estrogens in the environment, considering gender-related differences and complex mixture effects. Financed by Environment Agency, UK, Coordination University of Plymouth and University of Exeter, UK (2005-2007)
- **BRAZOS** - Application of Genetic Ecotoxicological approaches for assessment of impacted sites in the Brazos River (Texas, USA) watershed. Texas Tech University, (March-September 2003)
- **INTEGRA** - Integration of molecular and physiological responses to contamination. Applicability to coastal environment's biomonitoring. Financed by "Fundação Para a Ciência e Tecnologia" - FCT, Coordination IMAR - New University of Lisboa (2002-2005)
- **GENOTOX** - Genetic characterization and genetic ecotoxicology of a marine amphipod.

Financed by "Fundação Para a Ciência e Tecnologia" - FCT, Coordenação IMAR - University of Lisbon (1999-2002)

- **AMPHIPOD** - Study of two amphipod species of European coast. Ecophysiology, biochemistry and citochemistry and interaction with the sedimentary environment. Financed by "Fundação Para a Ciência e Tecnologia" - FCT, Coordination IMAR - New University of Lisbon (1998-2000)

## **6- ELABORATION OF RESEARCH PROJECTS**

- "Simvastatin effects at transphyletic scale: Generations and Beyond" Candidatura ao Concurso de Projetos de IC&DT em todos os Domínios Científicos 2017 (Aviso 02/SAICT/2017) Ref - T496144364-00037349. Waiting avaliation
- "Multi-level effects of priority pharmaceuticals at environmentally relevant concentrations. A multigenerational approach with the amphipod *Gammarus locusta*." PTDC/AAG-MAA/3808/2014. Not funded
- "Risk assessment of a priority pharmaceutical in two generation bioassays: a first approach for the development of standard ecotoxicological tests with the amphipod *Gammarus locusta*". EXPL/MAR-EST/1052/2013. Not funded
- "Risk assessment of priority pharmaceuticals using chronic life-cycle studies: a first approach for the development of standard ecotoxicological tests with the amphipod *Gammarus locusta*" PTDC/AAG-MAA/3749/2012. Not funded

## **7- SUPERVISING EXPERIENCE**

### **Theses concluded under my supervision:**

- "Chronic effects of simvastatin in Zebrafish (*Danio rerio*): Integration of molecular and biochemical tools with full life-cycle bioassays". Susana Andreia Teixeira de Barros, **MSc thesis** in Toxicology and Environmental Contamination, FCUP, IQBAS, Universidade do Porto, 2016-2017, 56p, 2017. (Supervisor)
- "Epigenetic effects of emerging contaminants in the amphipod *Gammarus locusta*". Nelson Michael Ferreira Alves, **BSc thesis** in Biology, FCUP Universidade do Porto, 2016-2017,39p, 2017 (Co-Supervisor)
- "Individual and biochemical responses of the amphipod *Gammarus locusta* after chronic exposure to sertraline". Ana Isabel Cristóvão Lopes, **MSc thesis** in Toxicology and Environmental Contamination, FCUP, IQBAS, Universidade do Porto, 42 p., 2015 (Supervisor)
- "Chronic toxicity effects of Triclocarban to the amphipod *Gammarus locusta*. Integration of molecular and ecological tools in two generation bioassays." Susana Andreia Teixeira de Barros, **BSc thesis** in Biology, FCUP Universidade do Porto, 30p., 2015 (Supervisor)
- "Toxicological effects of a hypercholesterolaemic pharmaceutical, simvastatin, in energetic reserves of *Gammarus locusta*." Ashley Lima Capitão, **BSc thesis** in Biology, FCUP Universidade do Porto, 25p., 2014 (Supervisor)
- "Genotoxicidade de hidrocarbonetos e efeitos no Scope-for-growth do mexillão *Mytilus galloprovincialis*." A.P. Rodrigues, **BSc thesis**, Universidade Lusófona - Lisboa, 75p., 2004 (Co-Supervisor)

## **8-REFEREE OF SCIENTIFIC JOURNALS**

**Reviewer of papers submitted to the following scientific journals:**

- *Aquatic Toxicology*
- *Ecotoxicology*
- *Marine Pollution Bulletin*
- *Acta Oecologica*
- *Marine environmental Research*
- *Environmental Toxicology*
- *Mutation Research*
- *Ecotoxicology and Environmental Safety*
- *Genetic Toxicology and Environmental Mutagenesis*
- *Chinese Journal of Oceanology and Limnology*

## **9- ACADEMIC JURIES**

- B.Sc. examination of Emanuel Silva Figueiredo, october 2017, ICBAS, Universidade do Porto. Title: "Resposta Bioquímica à toxicidade da água do Rio Ave com *Physa Acuta*". Graduation in aquatic Sciences. (Principal Examiner).
- PhD examination of Diana Sofia Gosmão Coito Madeira, Abril 2016, Universidade Nova de Lisboa. Title: "Effects of ocean warming throughout the life cycle of *Sparus aurata*: a physiological and proteomic approach". PhD in Sustainable Chemistry. (Principal Examiner)
- PhD examination of Marta Susana Silvestre Gouveia Martins, December 2014, Universidade Nova de Lisboa Title: "Toxicity of carcinogenic and non-carcinogenic polycyclic aromatic hydrocarbons and their mixtures to aquatic organisms under ecologically-relevant scenarios. PhD in Environmental Sciences. (Principal Examiner)
- M.Sc. examination of Carla Maria Alves Martins, September 2013, Universidade Nova de Lisboa. Title: "Toxicological effects of a pharmaceutical, simvastatin, in *Gammarus locusta*: histopathological evaluation". Master in Environmental Sciences. (Principal Examiner)

## **10-ADVANCED COURSES**

- **Course in Laboratory Animals Sciences - Aquatic Organisms (CAL-AQUA).** CIIMAR, 12-16 December 2016
- **Análise de Dados Provenientes de Técnicas Moleculares** - e-learning course, BioMarPT, 15 November 02 de December 2016
- **Practical Approach to Ecotoxicogenomics - Advanced Workshop Studies in Biology and Applied Biosciences,** Departamento de Biologia, Universidade de Aveiro, 16-21 June 2008
- **Flow Cytometry training – Fundamentals and Main Applications,** Enzifarma, 15

horas /2007

- **Molecular Biology – Theory and practice**, Instituto Nacional de Engenharia e Tecnologia Industrial (INETI), 40 horas / 2003
- **RT-PCR** - BioRad Laboratories, 3 horas / 2002

## **11-SCIENTIFIC OUTREACH**

- Involvement, as scientific disseminator in The Atlantic Regions' Coastal Pollution Response project – ARCOPOL. The ARCOPOL project worked at improving the preparedness, response and mitigation capabilities of local and regional authorities in the Atlantic regions to accidental coastal pollution; specifically against oil and HNS (Hazardous and Noxious Substances) spills. This project focused on the elaboration of guides, datasheets, protocols and tools that can be adapted for integration into contingency plans. In the scope of ARCOPOL project, T. Neuparth was involved in the publication of five relevant scientific papers (see section 12: Neuparth et al., 2011, 2012, 2013 and 2014; Cunha et al., 2014).
- Participation in the science communication program of CIIMAR, "The CIIMAR in School": design of experimental protocols to be carried out by teachers in the basic and secondary school and laboratory training programs with secondary school students'
- Theater training lecture - CIIMAR, entitled "Amphipods in ecotoxicology, theory and practice" – November 2017
- Lecture in scientific seminars at CIIMAR entitled "Amphipods in Ecotoxicology", October 2017
- Lecture in "Escola da Torrinha"- Porto, entitled "Effects of pollutants on aquatic organisms and bioremediation techniques" – December 2015

## **12-PUBLICATIONS**

### **a) Full Peer-reviewed Publications**

Cardoso, P.G., Loganimoce, E.M., **Neuparth, T.**, Rocha, M.J., Rocha, E., Arenas, F. (2017). Interactive effects of increased temperature, pCO<sub>2</sub> and the synthetic progestin levonorgestrel on the fitness and breeding of the amphipod *Gammarus locusta*. *Environmental Pollution*, *in press*.

Soares, J., **Neuparth, T.**, Lyssimachou, A., Lima, D., André, A., Reis-Henriques, M.A., Castro, L.F.C., Carvalho, A.P., Monteiro, N., Santos, M.M. (2017). Zebrafish (*Danio rerio*) life-cycle exposure to mixtures of 17 $\alpha$ -ethynilestradiol and tributyltin disrupt embryonic development and modulates the expression of genes involved in NER and p53 DNA repair pathways. *Ecological Indicators*, *in press*. <https://doi.org/10.1016/j.ecolind.2017.04.054>.

Montes, R., Rodil, R., **Neuparth, T.**, Santos, M.M., Cela, R., Quintana, J.B. (2017). A simple and sensitive approach to quantify Methyl Farnesoate in whole arthropods by matrix-solid phase dispersion and gas chromatography-mass spectrometry. *Submitted to Journal of Chromatography A*. 1508: 158-162.

- Lemos, J., **Neuparth, T.**, Trigod, M., Costa, P., Vieira, D. Cunha, L. Ponte, F. Costa, P.S. Metello, L.F., Carvalho, A.P. (2017). Single low-dose ionizing radiation induces genotoxicity in adult zebrafish and its non-irradiated progeny. *Bulletin of Environmental Contamination and Toxicology*, 98:190–195.
- Barros, S. Montes, R. Quintana, J.B., Rodil, R., Oliveira, J.M.A, Santos, M.M., **Neuparth, T.** 2017. Chronic effects of triclocarban in the amphipod *Gammarus locusta*: Behavioural and biochemical impairment. *Ecotoxicology and Environmental Safety* 135, 276–283.
- Cunha, I., Oliveira, H., **Neuparth, T.**, Torres, T., Santos, M.M. (2016). Fate, behaviour and weathering of priority HNS in the marine environment: An online tool. *Marine Pollution Bulletin*, 111, 330-338.
- Santos, M.M., Ruivo, R., Marques, M., Torres, T., De los Santos, C., Castro, F., **Neuparth, T.** (2016). Statins: An undesirable class of aquatic contaminants? *Aquatic Toxicology* 174: 1-9.
- de los Santos, C.B., **Neuparth, T.**, Torres, T., Martins, I., Cunha, I., Sheahan, D., McGowan, T., Santos, M.M. 2015. Ecological modelling and toxicity data coupled to assess population recovery of marine amphipod *Gammarus locusta*: Application to disturbance by chronic exposure to aniline. *Aquatic Toxicology*, 163:60-70.
- Neuparth, T.**, Martins, C., de los Santos, C.B., Costa, M.H., Martins, I., Costa, P.M., Santos, M.M. 2014. Hypocholesterolaemic pharmaceutical simvastatin disrupts reproduction and population growth of the amphipod *Gammarus locusta* at the ng/L range. *Aquatic Toxicology*, 155: 337-347.
- Neuparth, T.**, Capela, R., Pereira, S.P.P., S.M. Moreira, S.M., Santos, M.M., Reis-Henriques, M.A. 2014. Toxicity effects of Hazardous and Noxious Substances (HNS) to marine organisms: acute and chronic toxicity of p-xylene to the amphipod *Gammarus locusta*. *Journal of Toxicology and Environmental Health, Part A*, 77: 1210-1221.
- Cunha, I, **Neuparth, T.**, Moreira, S, Santos, MM, Maria Armanda Reis-Henriques, MA. 2014. Management of contaminated marine marketable resources after oil and HNS spills in Europe. *Journal of Environmental Management*, 135:36-44.
- Neuparth, T.**, Capela, R., Rey-Salgueiro, L., Moreira, S., Santos, M.M., Reis-Henriques, M.A. (2013). Simulation of a Hazardous and Noxious Substances (HNS) Spill in the Marine Environment: Lethal and Sublethal Effects of Acrylonitrile to the European Seabass. *Chemosphere*, 93, 978–985.
- Neuparth, T.**, Moreira, S., Santos, M.M., Reis-Henriques, M.A. (2012). Review of oil and HNS accidental spills in Europe: identifying major environmental monitoring gaps and drawing priorities. *Marine Pollution Bulletin* 64: 1085–1095.
- Neuparth, T.** Moreira, S., Santos, M., Reis-Henriques, M.A. (2011). Hazardous and Noxious Substances (HNS) in the marine environment: Prioritizing HNS that pose major risk in a European context. *Marine Pollution Bulletin* 62: 21-28.
- Costa, P.M. **Neuparth, T.** Caeiro, S. Lobo, J. Martins. M. Ferreira, A.M., Caetano. M. Vale, C., DelValls, T.A., Costa, M.H. (2011) Assessment of the genotoxic potential of contaminated estuarine sediments in fish peripheral blood. *Environmental Research* 111: 25-36.
- Neuparth T.**, Costa F.O., Costa M.H., Theodorakis C.W., Bickham J.W. (2009). Assessment of DNA damage in blood cells of *Sparus aurata* exposed to benzo[a]pyrene using three distinct genotoxicity assays. *Fresenius Environmental Bulletin* 18, 461-467.
- Tysklind, N., **Neuparth, T.**, Gregg R. Ashcroft, G.R., Martin I. Taylor, M.I., Brett P. Lyons, B.P., Ian D. McCarthy, I.D., Gary R. Carvalho, G.R. (2009). Isolation and characterisation of 28 new microsatellite markers for European flounder (*Platichthys flesus* L.). *Molecular*

*Ecology Resources* 9, 1065-1068.

- Filby, A.L., **Neuparth T.**, Karen L Thorpe, K.L., Owen, R., Galloway, T.S., Tyler, C.R. (2007) Health impacts of estrogens in the environment, considering gender-related differences and complex mixture effects. *Environmental Health Perspectives* 115, 1705-1710.
- Cunha, I., **Neuparth, T.**, Caeiro, S., Costa, M.H., Guilhermino, L. (2007). Toxicity ranking of estuarine sediments on the basis of *sparus aurata* biomarkers. *Environmental Toxicology and Chemistry* 26, 444-453.
- Neuparth, T.**, Bickham, J.W. Theodorakis, C.W. Costa, F.O. and Costa, M.H. (2006). Detection of Endosulfan-Induced Genotoxicity in the Gilthead Seabream, *Sparus aurata* L., by means of Flow Cytometry and Micronuclei Assays. *Bul. Environ. Contam. Toxicol.* 76:242-248.
- Neuparth T.**, Correia A.D., Costa F.O., Lima G., Costa, M.H. (2005). Multi-level assessment of chronic toxicity of estuarine sediments with the amphipod *Gammarus locusta*: I. Biochemical endpoints. *Mar. Environ. Res.* 60:69-91.
- Costa F.O., **Neuparth T.**, Correia A.D., Costa M. H. (2005). Multi-level assessment of chronic toxicity of estuarine sediments with the amphipod *Gammarus locusta*: II. Organism and population-level endpoints. *Mar. Environ. Res.* 60:93-110.
- Costa F.O., **Neuparth T.**, Theodorakis C.W., Costa M.H., Shugart L.R. (2004). RAPD analysis of southern populations of *Gammarus locusta*: comparison with allozyme data and ecological inferences. *Mar. Ecol. Progr. Ser.* 277:197-207.
- Costa F.O., Cunha M.R., **Neuparth T.**, Theodorakis C.W., Costa M.H., Shugart L.R. (2004). Application of RAPD DNA fingerprinting in taxonomic identification of amphipods: a case-study with *Gammarus* species (Crustacea: Amphipoda). *J. Mar. Biol. Assoc U.K.* 84: 171-178.
- Costa F.O., **Neuparth T.**, Costa M. H., Theodorakis C.W., Shugart L. R. (2002). Detection of DNA strand-breakage in a marine amphipod (Crustacea) by agarose gel electrophoresis: exposure to X-rays and copper. *Biomarkers* 7: 451-463.
- Neuparth T\*.**, Costa F.O\*., Costa M.H. (2002). Effects of temperature and salinity on the life history of *Gammarus locusta* (Amphipoda). Implications for ecotoxicological testing. *Ecotoxicology*, 11: 61-73. (\* Neuparth, T. and Costa F.O. contributed equally for this study)
- Correia A.D., Costa F.O., **Neuparth T.**, Diniz M.E., Costa M.H. (2001). Sub-lethal effects of copper-spiked sediments on the amphipod *Gammarus locusta*. Evidence of hormesis? *Ecotoxicology and Environmental Restoration*, 4.2: 32-38.

**b) Book chapters:**

- Neuparth, T.**, Castro, L.F.C., Santos, M.M. (2017). Biological Effects of Organotins on the Marine Environment. In Barrera, T.G. & Ariza, J.G. (eds) *Environmental Problems in Marine Biology: Methodological Aspects and Applications*. CRC Press, Taylor and Francis Group 368p ISBN 9781482264500, CAT# K24422.

**c) Thesis:**

• **Ph.D.**

(2004). A genetic ecotoxicological approach using crustacean and fish as model organisms. New University of Lisbon.



- **M.Sc**

(2000). Sediment Ecotoxicology Studies with *Gammarus locusta* and *Corophium volutator* (Amphipoda): Biology and Sensitivity to Disturbed Sediment Environments. New University of Lisbon.

- **B.Sc**

(1994). Population dynamic study of the wild rabbit (*Oryctolagus cuniculus*) in Montesinho Natural Park.

#### **d) Published peer reviewed conference proceedings**

Martins, C, **Neuparth, T.** Costa, MH, Santos, MM, Costa, PM. (2013). Toxicological effects of a pharmaceutical, simvastatin, in *Gammarus locusta*: histopathological evaluation. In: Borrego, C., Miranda, A.I., Arroja, L., Fidelís, T., Castro, E.A., Gomes, A.P.

Pérez, P., Fernández, M.L., Simal, P., Pérez-Muñuzuri, V., Molina, E., Novas, A., Ayensa, G., Montero, P., Santiago, A., Barrio, M., Marques, C., Keromnes, E., Bouteau, F., Fernandes, F., **Neuparth, T.**, Reis-Henriques, M.A., Dabrowski, T., Berry, A., Mangold, J., Louchart, P., Harold, P., Russell, D., Monvoisin, N.B., Girin, M. (2011). ARCOPOL: The Atlantic Regions' Coastal Pollution Response. Proceedings of WMU-IMO Conference on Oil Spill Risk Management. 7-9 March, Malmö, Sweden.

**Neuparth T.**, Costa M.H. (1998). Alguns aspectos do ciclo de vida de *Gammarus locusta* adaptado a baixas salinidades. in Resumos do 3ª Encontro Nacional de Ecologia, Universidade do Algarve, Faro (Portugal).

#### **e) Other publications**

**Neuparth, T.**, Capela, R., Moreira, S., Santos, M.M. and Reis-Henriques, M.A. (2012). Laboratory assays for the study of chronic toxicity and decontamination kinetics of acrylonitrile in seabass (*Dicentrarchus labrax*). Technical report produced in the scope of ARCOPOL Project.

**Neuparth, T.**, Capela, R., Moreira, S., Santos, M.M. and Reis-Henriques, M.A. (2011). Laboratory ecotoxicological assays with selected chemicals and target marine organisms. Technical report produced in the scope of ARCOPOL Project.

Cunha, I., **Neuparth, T.**, Santos, M.M., Moreira, S., Reis-Henriques, M.A. (2011). Standardize procedures for management of contaminated marine marketable resources. Technical report produced in the scope of ARCOPOL Project.

**Neuparth, T.**, Moreira, S. Santos, M.M. and Reis-Henriques, M.A. (2011). Review of Ecological Risk Assessment Methodologies and Derivation of PNECs for Marine Species. Technical report produced in the scope of ARCOPOL Project.

**Neuparth, T.**, Moreira, S. Santos, M.M. and Reis-Henriques, M.A. (2010). Bibliographic review of the environmental impact of past major oil and HNS spill incidents. Technical report produced in the scope of ARCOPOL Project.

**Neuparth, T.**, Moreira, S. Santos, M.M. and Reis-Henriques, M.A. (2010). Identification of chemicals that pose major environmental risk. Technical report produced in the scope of ARCOPOL Project.

## **f) Oral communications in scientific meetings**

- Santos, M.M., Torres, T., de los Santos, C. B., **Neuparth, T.** 2015. Simvastatin: an undesired aquatic contaminant. Primo 18, Norway, 24-27 May, 2015.
- Lopes, A.I., Santos, M.M., **Neuparth, T.** 2015. Individual and biochemical responses of the amphipod *Gammarus locusta* after chronic exposure to sertraline. IJUP 2015, Porto, 13-15 May 2015.
- Lemos, J., Costa, P., L Cunha, L., Carvalho, A.P., **Neuparth, T.**, Genesisio, P., Ponte, F., Costa, P.S., Crespo, P., Metello, L.F. 2014. Assessing radiobiological effects of diagnostic level doses of ionizing radiation on zebrafish using comet assay. Society of Nuclear Medicine and Molecular Imaging Annual Meeting, June 7-11, 2014, St. Louis Missouri, USA.
- Lemos, J., Costa, P., L Cunha, L., Carvalho, A.P., **Neuparth, T.**, Vasconcelos, V., Genesisio, P., Ponte, F., Costa, P.S., Crespo, P., Metello, L.F. 2014. Study of radiobiological effects of low doses of ionizing radiation using comet assay on zebrafish model. Annual Congress of the European Association of Nuclear Medicine October 18 - 22, 2014, Gothenburg/Sweden.
- Martins. C., **Neuparth, T.** Costa, M.H., Santos, M.M., Costa, P.M. 2013. Efeitos toxicológicos de um fármaco, Sinvastatina, em *Gammarus locusta*: Avaliação histopatológica. 10ª Conferência Nacional do Ambiente (10CNA) / XII CNEA – Congresso Nacional de Engenharia do Ambiente. Universidade de Aveiro. 6-8 de Novembro de 2013.
- Neuparth, T.**, Santos, M.M., Moreira, S., Reis-Henriques, M.A. (2011). Environmental Monitoring of Oil and HNS Spills. ARCOPOL Conference. Cardiff, 7th April 2011.
- Moreira, S., **Neuparth, T.**, Santos, M.M., Reis-Henriques, M.A. (2011). WP6: Claims and compensation for small, medium and major spills (progress of the activity 6). ARCOPOL Coordination meeting. Cardiff, 5th April 2011.
- Neuparth, T.**, Santos, M.M., Moreira, S., Reis-Henriques, M.A. (2010). Environmental Monitoring of Oil and HNS Spills. Ecological Damage Meeting. Brest, 26th November 2010.
- Moreira, S., **Neuparth, T.**, Santos, M.M., Reis-Henriques, M.A. (2010). WP6: Claims and compensation for small, medium and major spills. ARCOPOL Coordination meeting (progress of the activity 6). Almonte, 5th October 2010.
- Neuparth, T.**, Moreira, S., Santos, M.M., Reis-Henriques, M.A. (2010). WP6: Claims and compensation for small, medium and major spills (progress of the activity 6). ARCOPOL Coordination meeting. Lisbon, 29th April 2010.
- Reis-Henriques, M.A., Santos, M.M., Moreira, S., Lima, D., **Neuparth, T.** (2010). Developing monitoring tools for oil and HNS spills. 6th international Conference on Marine Pollution and Ecotoxicology. Hong Kong, 31 May – 3 June 2010.
- Costa, P.M., Caeiro, S., Lobo, J., Martins, M., Chicano-Gálvez, E., **Neuparth, T.**, Diniz, M.S., Ferreira, A.M., Caetano, M., Vale, C., Lopez-Barea, J., DelValls, T.A. and Costa, M.H. (2010). Can the integration of multiple effects and responses to toxicity with sediment geochemistry resolve the complexity of sediment risk assessment? A study with a benthic fish to determine estuarine sediment ecological risk. ECSA 47 Symposium 14- 19 September, 2010.
- Neuparth, T.**, Santos, M.M., Moreira, S., Reis-Henriques, M.A. (2009). Environmental Monitoring of Oil and HNS Spills. Ecological Damage Meeting. Rennes, 17th December 2009.
- Neuparth, T.**, Moreira, S., Santos, M.M., Reis-Henriques, M.A. (2009). WP6: Claims and compensation for small, medium and major spills (progress of the activity 6). ARCOPOL Coordination meeting. Galway, 8th September 2009.

Costa, P.M., Diniz, M., **Neuparth, T.**, Caeiro, S., Lobo, J., Martins M., Ferreira, A.M. Caetano, M., Vale, C., DelValls, A. and Costa M.H. (2008). Assessing chronic effects and responses to estuarine sediment contaminants on juvenile *Solea senegalensis* Kaup, 1858 (Pleuronectiformes: Soleidae), The 7th International Flatfish Symposium, November 2-7, 2008, Sesimbra, Portugal (oral presentation).

**Neuparth, T.**, Galloway, T.S. (2006). Exploring the mechanisms behind the genotoxic effects of environmental oestrogens. Abstracts of the Society of Environmental Toxicology and Chemistry - SETAC Europe, 16th Annual Meeting, 7-11 May, Hague, The Nederland.

**Neuparth, T.**, Costa, F.O., Costa, M.H. (1999). Effects of salinity and temperature on survival, growth and reproduction of *Gammarus locusta* (Amphipoda). Abstracts of the 34th European Marine Biology Symposium, 13-17 Setembro, Universidade dos Açores, Ponta Delgada, Portugal.

**Neuparth T.**, Costa M.H. (1999). O papel dos Testes Ecotoxicológicos na Avaliação e Gestão da Qualidade Sedimentar. VI Conferência Nacional sobre a Qualidade do Ambiente 2:171-178.

### **g) Poster communications in scientific meetings**

Montes, R., Rodil, R., **Neuparth, T.**, Santos, M.M., Cela, R., Quintana, J.B. 2017. Determination of methyl farnesoate in whole arthropod specimens by matrix solid-phase dispersion. 19<sup>th</sup> International Symposium on Advances in Extraction. June 27<sup>th</sup>-30<sup>th</sup>. Santiago de Compostela (Spain)

Santos, M.M., de los Santos, C. B., Capela, R., **Neuparth, T.**, Cunha, I. 2015. The need for impact assessment and post-spill environmental monitoring. Primo 18, Norway, 24-27 May, 2015.

Ana Sofia Lavrador, A.S., Costa, V., **Neuparth, T.**, Monteiro, N. 2015. Application of cross-species microsatellite markers in sexual selection studies with *Gammarus locusta* L. IJUP 2015, Porto 13-15 May 2015.

**Neuparth, T.**, Santos, M.M., Pereira. S., Reis-Henriques, M.A. 2013. Hazardous and Noxious Substances (HNS) in the marine environment: acute and chronic toxicity of p-xylene to the *artemia franciscana*. Pollutant Responses in Marine Organisms (PRIMO 17). 4-8 May, 2013, University of Algarve, Faro, Portugal.

Diniz, M. S., Costa, P. M., **Neuparth, T.**, Pereira, R., Freitas, A. C., Rocha-Santos, T. A. P., Castro, L., Peres, I., Lodeiro, C., Capelo, J. L., Duarte, A. C. 2010. Assessment of genotoxicity in *carassius auratus* exposed to a treated bleached kraft pulp mill effluent using the micronuclei and comet assay tests. 12<sup>o</sup> encontro nacional de ecologia, Porto 18-20 Outubro 2010

Guimarães, L., **Neuparth, T.**, Gravato,C., Guilhermino, L (2009). Morphometric and biochemical variability in male populations of *Carcinus maenas* from two NW Portuguese estuaries with different pollution levels. SETAC Europe 19th Annual Meeting, Göteborg, Sweden, 31 May - 4 June 2009.

Guimarães, L., **Neuparth, T.**, Gravato,C., Guilhermino, L (2009). Lipid peroxidation and oxidative stress biomarkers in natural populations of *Carcinus maenas* (NW Portugal) with different contamination histories. The 15h international Symposium on Pollutant Responses in Marine Organisms, Bordeaux, May 17-20, 2009.

- Neuparth T.**, Costa F.O., Costa, M.H., Theodorakis C.W. (2005). Integration of genotoxicity and population genetic analyses of the mosquitofish *Gambusia affinis* from impacted sites in the Brazos River watershed (Texas, USA). Abstracts of the 6th Iberian Congress of Environmental Contamination and Toxicology, 26-28 September, Cadiz, Spain.
- Repolho T., Caeiro S., **Neuparth T.** & Costa M.H.(2004). Metodologia Integrada de Avaliação da Toxicidade Sedimentar: O Estuário do Sado como caso de estudo. 8ª Conferência Nacional de Ambiente. 27-29 Outubro, Lisboa (Portugal).
- Neuparth T.**, Costa F.O., Costa M.H., Da Costa L., Bickham J.W. (2003). Investigation of the potential of flow cytometry and micronuclei assay as biomarkers of genotoxicity in marine fish: I. Genotoxic effects of endosulfan in gilthead seabream. Abstracts of the 5th Iberian Congress of Environmental Contamination and Toxicology, 22-24 Setembro, Porto, Portugal.
- Neuparth T.**, Costa F.O., Correia A.D., Costa M.H. (2003). Chronic toxicity of estuarine sediments: integration of biochemical and population-level effects within a weight-of-evidence approach. Abstracts of the 5th Iberian Congress of Environmental Contamination and Toxicology, 22-24 Setembro, Porto, Portugal.
- Cunha I., **Neuparth T.**, Costa, M.H., Guilhermino, L. (2003). Effects of benzo[a]pyrene on enzymatic parameters of *Sparus aurata*. Abstracts of the 5th Iberian Congress of Environmental Contamination and Toxicology, 22-24 Setembro, Porto (Portugal).
- Costa F.O., Uzunova S., **Neuparth T.**, Tsanev D., Costa M.H. (2003). Species identification of amphipods combining DNA-based and morphological approaches: RAPD DNA fingerprinting of some *Gammarus* from the Black Sea. Abstracts of the 38th European Marine Biology Symposium, 8-12 Setembro, Aveiro, Portugal.
- Costa F.O., Uzunova S., **Neuparth T.**, Tsanev D., Costa M.H. (2003). Species identification of amphipods combining DNA-based and morphological approaches: RAPD DNA fingerprinting of some *Gammarus* from the Black Sea. Abstracts of the 38th European Marine Biology Symposium, 8-12 Setembro, Aveiro, Portugal.
- Costa F.O., **Neuparth T.**, Theodorakis C.W., Costa M. H., Shugart L. R. (2002) Analysis of genetic variability of southern populations of *Gammarus locusta* (Amphipoda) by RAPD DNA fingerprinting: comparison with allozyme studies. Abstracts of the Fourth European Crustacean Conference, July, 22-26, University of Lodz, Lodz, Poland.
- Neuparth T.**, Correia A.D., Costa F.O., Lima G., Costa M.H. (2002) Application of biochemical markers to assess the chronic toxicity of contaminated estuarine sediments with the amphipod *Gammarus locusta*. Abstracts of the Fourth European Crustacean Conference, July, 22-26, University of Lodz, Lodz, Poland.
- Costa F. O., **Neuparth T.**, Costa M.H., Theodorakis C.W., Shugart L. R. (2001) Detection of DNA strand breakage in a marine amphipod (Crustacea) by agarose gel electrophoresis: preliminary tests with X-rays. Abstracts of the Congress "Biomarkers of Environmental Contamination - Biomarkers' 2001". CIMAR, 23-24 de Setembro, Póvoa de Varzim, Portugal.
- Correia A.D., Lima G., Costa F.O., **Neuparth T.**, Costa M.H., Livingstone, D.R. (2001) Biomarkers of copper exposure and toxicity in a marine amphipod (Crustacea) I: Induction of metallothionein and lipid peroxidation. Abstracts of the Congress "Biomarkers of Environmental Contamination - Biomarkers' 2001". CIMAR, 23-24 de Setembro, Póvoa de Varzim, Portugal.
- Neuparth T.**, Costa M.H. (1998). Alguns aspectos do ciclo de vida de *Gammarus locusta* adaptado a baixas salinidades. in Resumos do 3ª Encontro Nacional de Ecologia, Universidade do Algarve, Faro (Portugal).

