

Maria Eugenia Sancho Santos

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EDUCATION

- Oct 2017 - Sep 2021 **Doctor of Philosophy in Zootechnics**
University of South Bohemia (Czech Republic)
Topic: "Psychoactive compounds in aquatic environment and their effects on fish".
- Sep 2015 - Sep 2016 **Master of Science in Aquaculture**
University of Barcelona, Autonomous Univ. of Barcelona, Polytechnic Univ. of Catalonia (Spain)
- Sep 2008 - Feb 2014 **Doctor of Veterinary Medicine**
University of León (Spain)

RESEARCH TRAINING

- Feb – Apr 2022; Oct-Feb 2023 **Research Scientist**, University of South Bohemia (Czech Republic)
Remote. Finishing projects, data analyses, writing scientific articles.
- 2018 - 2021 **Ph.D. Collaboration**, Czech University of Life Sciences, Prague (Czech Republic)
Ecotoxicological experiments with *Salmo trutta fario* and *Squalius cephalus* using behavioral techniques and histopathology.
- May 2018 **Ph.D. Internship**, Vetsuisse-Fakultät, Bern (Switzerland)
Training in pathology and diagnostics of aquatic animals.
- Mar - Aug 2016 **M.Sc. Thesis**, UVIGO Marine Research Centre (CIM), Vigo (Spain)
"Survivor and viability of marine pathogens after ozone exposure", in biosecurity lab level 2.
Collaboration in experimental study for the development of a vaccine for *Psetta maxima*.
- Mar 2013 **Aquaculture training**, UVIGO Marine Research Centre (CIM)
Husbandry of aquatic organisms (microalgae, artemia, rotifer, turbot).

PUBLICATIONS

- [Sancho Santos, M.E.](#), Grabicová, K., Steinbach, C., Schmidt-Posthaus, H., Šálková, E., Kolářová, J., Vojs Staňová, A., Grabic, R., Randák, T. 2020. **Environmental concentration of methamphetamine induces pathological changes in brown trout (*Salmo trutta fario*)**. Chemosphere 254, 126882. (IF 2020 = 7,086; Q1). DOI 10.1016/j.chemosphere.2020.126882.
- [Sancho Santos, M.E.](#), Horký, P., Grabicová K., Hubená, P., Slavík, O., Grabic, R., Douda, K., Randák, T. 2021. **Traces of tramadol in water impact behaviour in a native European fish**. Ecotoxicology and Environmental Safety 212, 111999. (IF 2021 = 7.129; Q1). DOI 10.1016/j.ecoenv.2021.111999.
- [Sancho Santos, M.E.](#), Šálková, E., Horký, P., Steinbach. 2021. **Comment on “Diluted concentrations of methamphetamine in surface water induce behavior disorder, transgenerational toxicity, and ecosystem-level consequences of fish” by Wang et al. [Water Research 184 (2020) 116-164]**. Water Research 197, 117007 (IF 2021 = 13.400; Q1). DOI 10.1016/j.watres.2021.117007
- Horký, P., Grabic, R., Grabicová, K., Brooks, B.W., Douda, K., Slavík, O., Hubená, P., [Sancho Santos, M.E.](#), Randák, T. 2021. **Methamphetamine abuse elicits addiction in wild fish**. Journal of Experimental Biology 224 (13). (IF 2021 = 3.312; Q2). DOI 10.1242/jeb.242145
- [Sancho Santos, M.E.](#), Horký, P., Grabicová K., Steinbach, C., Hubená, P., Slavík, O., Grabic, R., Randák, T. **From metabolism to behaviour – multilevel effects of environmental methamphetamine concentrations on fish**. Under review in Science of the Total Environment.

LANGUAGES

- Native languages **Spanish, Galician**
- Foreign languages **English** (102, TOEFL ibt), **Czech** (A2, Univ. of South Bohemia), **German** (A1, Goethe Institute)

SKILLS

Lab based	Microscopy, histology, immunohistochemistry, dissection, animal husbandry, behavioural techniques, experimental design, aseptic technique, basic microbiology, automatic lab devices.
Computer based	Excel, Word, Outlook, PowerPoint, R, Statistica, Sigma plot, NCBI BLAST.

SPECIAL ACTIVITIES

- Certificate of professional competence for designing experiments and experimental projects under Section 15d (3) of Act No 246/1992 Coll., on the Protection of Animals against cruelty, as amended. Charles University, Prague (Czech Republic), 15-19 Feb 2021.
- Workshop: "Short course on DanioVision (Noldus)", Vodňany (Czech Republic), 8 Jan 2020.
- 14th Fish Histopathology Workshop: "Skin-associated pathology", Oporto (Portugal), 8 Sep 2019.
- Introduction to CYP450 activity, Swedish University of Agricultural Sciences (SLU), Uppsala (Sweden), 22-25 Aug 2019.
- Short Course on Toxicologic Pathology in Fish, University of Heidelberg (Germany), 22-23 Jul 2019.
- Workshop: "Pit-tag methodologies for fish/pass river monitoring and aquaculture" (Biomark), Vodňany, 16-17 Apr 2018.
- Member of European Association of Fish Pathologists (EAFP) and Spanish Scientists in the US Association (ECUSA).
- Assistance in field studies related to freshwater fish management (*Thymallus thymallus* and *Salmo trutta fario* restock).

ACADEMIC PROJECTS, LEADERSHIP

- 2019 GAJU 102/2019/Z – "Fish responses to environmental cocktail of psychoactive substances" (project leader).
- Award to the best PhD presentation in the field, years 2018, 2019, 2020, and 2021, University of South Bohemia.
- Maintenance of the histology lab.
- Research mentor:
 - Consultant of a bachelor's and two master's theses; other pedagogical activities.
 - Summer School (responsible supervisor), University of South Bohemia, 24 Jun-19 Jul 2019. Students awarded with the Austrian prize "Wissenschaftspreis 2020".

SELECTED PRESENTATIONS

- Sancho Santos, M.E., Grabicová, K., Grabic R, Steinbach, C., Vojs Staňová, A., Randák, T. 2019. Methamphetamine and brown trout (*Salmo trutta fario*): bioaccumulation and metabolome effects at environmentally relevant and higher exposure levels. 40th SETAC North America Annual Meeting, Toronto (Canada), 3-7 Nov.
- Sancho Santos, M.E., Grabicová, K., Steinbach, C., Schmidt-Posthaus, H., Kolářová, J., Vojs Staňová, A., Velíšek, J., Grabic, R., Randák, T. 2019. Environmental concentration of methamphetamine affects brown trout (*Salmo trutta fario*). 19th EAFP International Conference, Oporto (Portugal), 9-12 Sep.
- Sancho Santos, M.E., Steinbach C., Grabicová, K., Schmidt-Posthaus, H., Kolářová, J., Randák, T. 2019. Selected effects of environmental psychoactive compounds in fish. XIX International Toxicological Conference, Vodňany (Czech Republic), 21-23 Aug.
- Sancho Santos, M.E., Costas Costas, D., Rivera Fernández, L., Rodríguez Quiroga, J.J., Constenla Matalobos, M. 2017. Survival and viability of marine pathogens after ozone exposure. XVI National Congress of Aquaculture, Zaragoza (Spain), 3-5 Oct.

SMALL ANIMAL HEALTH

Veterinarian. Resolution of medical cases, surgery of soft tissues, hospitalization, routine clinical care.

Practices/employment in several locations:

- Clinic "Salut Integral", Barcelona (Spain), Jan-Sep 2017.
- Vet office "Kivet", Barcelona, Sep-Dec 2016.
- Clinic "Pilar Alonso", León (Spain), Jun-Sep 2015.
- Clinic "La Bañeza", La Bañeza (Spain), Mar-May 2015; Oct 2013-Feb 2014.
- Hospital "AniCura Abros", Orense (Spain), Jul-Aug 2012.