
CURRICULUM VITAE

Marta Caballero Huertas

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Languages: Spanish, English, Catalan, French

1. Current situation

- **Permanent researcher (CDI).** Centre de coopération internationale en recherche agronomique pour le développement (Cirad). UMR Institut des Sciences de l'Évolution de Montpellier (ISEM). 34980 Montferrier-sur-Lez (France). 12 June, 2023 - Present

2. Education and training

- **Postdoctoral guidance stage.** University of Girona (UdG). 17003 Girona (Spain). 27 May, 2023 - 11 June, 2023
- **Ph.D. (*Cum laude*, International Mention, and Extraordinary Doctorate Prize) in the Variability in the body condition and reproduction of European sardine populations in Mediterranean genetic stocks. Implications for fishery management.** Doctoral Programme in the Environment. University of Girona (UdG). 17003 Girona (Spain). 1 July, 2020 - 26 May, 2023
- **International Master of Science in Marine Biological Resources (IMBRSea) (120 ECTS) (*Summa Cum Laude*) — Main Subject Marine Food Production**
University: Ghent University (UGent) (Belgium) (headquarters and coordination office); 1st Semester: University of the Algarve (UAlg) (Portugal); 2nd Semester: University of the Basque Country (UPV/EHU) (Spain), Professional Practices at IIM - CSIC (Institute of Marine Research - Spanish National Research Council) (Spain); 3rd Semester: University of Bergen (UiB) (Norway); 4th Semester: Internship at Gemmell Lab (University of Otago) (New Zealand), Master thesis at IIM - CSIC (Institute of Marine Research - Spanish National Research Council) (Spain). September, 2018 - July, 2020

Countries assigned to each university in which each semester has been taken.
- **Degree in Biology (240 ECTS).** Rey Juan Carlos University. 28933 Móstoles (Spain). September, 2014 - July, 2018

3. Research activity, including grants, scholarships and research contracts, and participation in projects and agreements

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- From February 2024, **international expert** in fish production in the European projects AMPIANA 2 and 3, and SWM project (Antananarivo, Madagascar).
 - From September 11 2023 to September 11 2024, **team member** and **proposal contributor** of the awarded project by **National Geographic Society Grant 2023** 'Cold-water coral biodiversity and distribution across oxygen minimum zones on the Galapagos and Isla del Coco'.
 - From 2022 to 2024, **researcher included in the project SARDTEMP** work plan and **supporter in proposal writing**: Convocatoria 2021 de ayudas a «Proyectos Estratégicos Orientados a la Transición Ecológica y a la Transición Digital», en el marco del Programa Estatal para Impulsar la Investigación Científico-Técnica y su Transferencia, del Plan Estatal de Investigación Científica, Técnica y de Innovación 2021-2023. Ministry of Science and Innovation.
 - From 2022 to 2024, **researcher included in the project QUALISARD** work plan and **supporter in proposal writing**: Convocatoria 2022 de ayudas a «Proyectos de Prueba de Concepto», en el marco del Plan Estatal de Investigación Científica, Técnica y de Innovación para el período 2021-2023, en el marco del Plan de Recuperación, Transformación y Resiliencia. Ministry of Science and Innovation.
 - From 2020 to 2022 **predoctoral researcher of the project CONSARVAR**: Convocatorias 2018 de Proyectos de I+D de «Generación de Conocimiento» y Proyectos de I+D+i «Retos Investigación» de la Agencia Estatal de Investigación. Ministry of Science, Innovation and Universities.
 - During 2022, participant of the working group in the **application of the teaching innovation project** granted by the Faculty of Sciences of the University of Girona (UdG): «Ajut d'innovació docent i millora de la qualitat de la Facultat de Ciències 2021».
 - From January 17 2022 to April 25, 2022, research stay at **La Sapienza University of Rome (Department of Public Health and Infectious Diseases)** focused on nematode parasitism in pelagic species. 00185 Roma (Italy).
 - From July 1 2020 to July, 2023 awarded with **University, research centre and hospital foundation grant for the contracting of new research staff (FI 2020)**.
 - From March 25 to July 1, 2020 **Master thesis 'Reproductive analysis of warm affinity fishes in a biogeographic transition zone (Galician Waters, North-east Atlantic Ocean)'**. Fisheries Ecology Group. Department of Ecology and Marine Resources. IIM - CSIC (Institute of Marine Research - Spanish National Research Council), 36208 Vigo (Spain).
 - From January 28 to March 25, 2020 **Internship 'In vitro investigation of gonadal sex change in a temperate marine fish'**. Gemmell Lab. Department of Anatomy. University of Otago, 9016 Dunedin (New Zealand).
 - From August 12 to December 20, 2019 awarded with **Mobility grant at University of Bergen** from the **Grant agreement for Erasmus+ Studies within Programme Countries KA I03** - Higher Education. University of Bergen, 5007 Bergen (Norway).
 - From April 29 to June 12, 2019 **Master's professional practices in Reproductive biology: application in fishery science**. Fisheries Ecology Group. Department of Ecology and Marine Resources. IIM - CSIC (Institute of Marine Research - Spanish National Research Council), 36208 Vigo (Spain).

- From October 22 to December 21, 2018 **Methods of laboratory in aquaculture nutrition**. AquaGroup (Aquaculture Research Group). CCMAR - EMBRC (Centre for Marine Sciences - European Marine Biological Resource Centre), 8005-139 Faro (Portugal).
- From May 1 to July 31, 2018 awarded with **Collaboration grant 2017 - 2018 from the Ministry of Education, Culture and Sports in the application of new materials in the preparation of samples**. GQAA - MAF (Group of Research in Analytical Chemistry applied to the environment, food and drugs). Department of Chemical and Energy Technology, Chemical and Environmental Technology, and Mechanical Technology and Analytical Chemistry. Rey Juan Carlos University, 28933 Móstoles (Spain).
- From January 22 to May 1, 2018 **Extracurricular internship and Degree thesis 'Efectos de la inmunoestimulación durante la diferenciación sexual del pez cebra (*Danio rerio*)'**. Group of Physiology and Genomic of fish, fish farming applications. Department of Renewable Marine Resources. ICM - CSIC (Institute of Marine Sciences - Spanish National Research Council), 08003 Barcelona (Spain).
- From July 10 to August 18, 2017 **Degree's professional practices in Analysis and sampling of pH in the oceanographic campaign RREX 2017** aboard the oceanographic vessel *L'Atalante* with the Department of Oceanography of the IIM - CSIC in collaboration with IFREMER (Institut Français de Recherche pour l'Exploitation de la Mer). Group of Oceanology. Department of Oceanography. IIM - CSIC (Institute of Marine Research - Spanish National Research Council), 36208 Vigo (Spain).

4. Other scientific and academic merits to consider

4.1. Publications in scientific journals

- Frigola-Tepe, X., Ollé-Vilanova, J., Schull, Q., **Caballero-Huertas, M.**, Viñas, J., & Muñoz, M. (2025). Phenotypic plasticity in the health status of western Mediterranean sardines. Estimation of spawning quantity and quality. *Frontiers in Marine Science*, 12, 1576148.
- Caballero-Huertas, M.**, Canonne, M., Rakotomanana, D., Tianandriatsiferana, R. J. C., Andrianjafisoa, T., Rasoloariniana, J. R., & Mortillaro, J. M. (2024). New insights into the reproductive physiology and culture approaches of *Paratilapia* sp., a Malagasy cichlid with potential interest for sustainable aquaculture. *Journal of the World Aquaculture Society*, e13103. <https://doi.org/10.1111/jwas.13103>
- Caballero-Huertas, M.**, Salazar-Moscote, M., & Ribas, L. (2024). Sex is a Crucial Factor in the Immune Response: An Ichthyological Perspective. *Reviews in Fisheries Science & Aquaculture*, 1–21. <https://doi.org/10.1080/23308249.2024.2390965>
- Frigola-Tepe, X., Pérez-Bielsa, N., **Caballero-Huertas, M.**, Ollé-Vilanova, J., Muñoz, M., & Viñas, J. (2024) A new threat to *Sardina pilchardus* in the northwestern Mediterranean: Genetic validation of the presence of lethal parasites in pelagic eggs and ovaries. *Mediterranean Marine Science*, 5(1), 151–159. <http://doi.org/10.12681/mms.35580>
- Gozlan, R. E., Bommarito, C., **Caballero-Huertas, M.**, Givens, J., Mortillaro, J. M., Pepey, E., Ralaifarison, R. P., Senff, P., & Combe, M. (2024). A one-health approach to non-native species, aquaculture, and food security. *Water Biology and Security*, 3(2), 100250. <https://doi.org/10.1016/j.watbs.2024.100250>

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- Valdivieso, A.¹, **Caballero-Huertas, M.**¹, Moraleda-Prados, J., Piferrer, F., & Ribas, L. (2024). Exploring the Effects of Rearing Densities on Epigenetic Modifications in the Zebrafish Gonads. *International Journal of Molecular Sciences*, 24(21), 16002. <https://doi.org/10.3390/ijms242116002>
- Caballero-Huertas, M.**, Frigola-Tepe, X., Viñas, J., & Muñoz, M. (2023). From west to east: Heterogeneity in the life history traits of a small pelagic fish (*Sardina pilchardus*) throughout the Mediterranean. *Frontiers in Marine Science*, 10, 1187071. <https://doi.org/10.3389/fmars.2023.1187071>
- Caballero-Huertas, M.**, Palomba, M., Frigola-Tepe, X., Muñoz, M., Mattiucci, S., & Viñas, J. (2023). Ascaridoid parasites in European sardine throughout the annual cycle: Variability in parasitic load according to host stock features. *International Journal for Parasitology: Parasites and Wildlife*, 20, 1-11. <https://doi.org/10.1016/j.ijppaw.2022.12.001>
- Frigola-Tepe, X., **Caballero-Huertas, M.**, Viñas, J., & Muñoz (2022). Influence of thermal regimes on the relation between parasitic load and body condition in European sardine along the Catalan Coast. *Fishes*, 7(6), 358. <https://doi.org/10.3390/fishes7060358>
- Caballero-Huertas, M.**, Vargas-Yáñez, M., Frigola-Tepe, X., Viñas, J., & Muñoz, M. (2022). Unravelling the drivers of variability in body condition and reproduction of the European sardine along the Atlantic-Mediterranean transition. *Marine Environmental Research*, 105697. <https://doi.org/10.1016/j.marenvres.2022.105697>
- Caballero-Huertas, M.**, Frigola-Tepe, X., Viñas, J., & Muñoz, M. (2022). Evidence of trilobed testes in European sardine (*Sardina pilchardus*). *Cybium*, 46(1), 29-32. <https://doi.org/10.26028/cybium/2022-461-004>
- Caballero-Huertas, M.**, Frigola-Tepe, X., Viñas, J., & Muñoz, M. (2022). Somatic Condition and Reproductive Potential as a Tandem in European Sardines: An Analysis with an Environmental Perspective in the Northern Adriatic (Gulf of Trieste). *Fishes*, 7(3), 105. <https://doi.org/10.3390/fishes7030105>
- Caballero-Huertas, M.**, Frigola-Tepe, X., Muñoz, M., Mattiucci, S., & Viñas, J. (2022). Exploring Parasitic Load in European Sardine: Applying Two Methodological Approaches along the Catalan Coast. *Biology and Life Sciences Forum*, 13(1), 43. <https://doi.org/10.3390/blsf2022013043>
- Caballero-Huertas, M.**, Frigola-Tepe, X., Coll, M., Muñoz, M., & Viñas, J. (2022). The current knowledge status of the genetic population structure of the European sardine (*Sardina pilchardus*): uncertainties to be solved for an appropriate fishery management. *Reviews in Fish Biology and Fisheries*, 1-19. <https://doi.org/10.1007/s11160-022-09704-z>
- Caballero-Huertas, M.**, Soto, M., & Ribas, L. (2021). Reviewing *Pseudoloma neurophilia* infections in the popular zebrafish model. *Reviews in Aquaculture*, 13(4), 1816-1827. <https://doi.org/10.1111/raq.12545>
- Moraleda-Prados, J.¹, **Caballero-Huertas, M.**¹, Valdivieso, A., Joly, S., Ji, J., Roher, N., & Ribas, L. (2021). Epigenetic differences in the innate response after immune stimulation during zebrafish sex differentiation. *Developmental & Comparative Immunology*, 114, 103848. <https://doi.org/10.1016/j.dci.2020.103848>

Caballero-Huertas, M., Moraleda-Prados, J., Joly, S., & Ribas, L. (2020). Immune genes, *IL1 β* and *Casp9*, show sexual dimorphic methylation patterns in zebrafish gonads. *Fish & Shellfish Immunology*, 97, 648-655. <https://doi.org/10.1016/j.fsi.2019.12.013>

Bañón, R., **Caballero-Huertas, M.**, Alonso-Fernández, A., Barros-García, D., Otero, J., & de Carlos, A. (2020). Signals of changes in the ichthyofauna composition of Galician waters (NW Iberian Peninsula). *Regional Studies in Marine Science*, 39, 101435. <https://doi.org/10.1016/j.rsma.2020.101435>

4.2. Congress communications

5th International Symposium on the Effects of Climate Change on the World's Ocean.

Form of participation: Author on a poster. 'Is the parasitisation of the eggs an additional threat for the Mediterranean sardine?'. Authors: Frigola-Tepe, X.; Pérez-Bielsa, N.; **Caballero-Huertas, M.**; Muñoz, M.; Viñas, J. Date and place: April 17 to 21 April, 2023. Bergen (Norway).

International Symposium on Small Pelagic Fish: New Frontiers in Science for Sustainable Management. Form of participation: Oral presentation 'From west to east: heterogeneity in the life history traits of the European sardine throughout the Mediterranean'. Authors: **Caballero-Huertas, M.**; Frigola-Tepe, X.; Viñas, J.; Muñoz, M. Date and place: November 7 to 11, 2022. Lisbon (Portugal).

International Symposium on Small Pelagic Fish: New Frontiers in Science for Sustainable Management. Form of participation: Poster design and exhibition 'Variability in the ascaridoid parasites load in the European sardine along the host distribution and its reproductive cycle'. Authors: **Caballero-Huertas, M.**; Frigola-Tepe, X.; Palomba, M.; Muñoz, M.; Mattiucci, S.; Viñas, J. Date and place: November 7 to 11, 2022. Lisbon (Portugal).

SIBIC 2022 – IX Iberian Congress of Ichthyology. Form of participation: Oral presentation 'Exploring parasitic load in European sardine: applying two methodological approaches along the Catalan Coast'. Authors: **Caballero-Huertas, M.**; Frigola-Tepe, X.; Muñoz, M.; Mattiucci, S.; Viñas, J. Date and place: June 20 to 23, 2022. Porto (Portugal).

V SIBECORP 2021. Form of participation: Oral presentation 'Evolución de los parásitos según el ciclo reproductivo de la Sardina (*Sardina pilchardus*)'. Authors: Frigola-Tepe, X.; **Caballero-Huertas, M.**; Viñas, J.; Muñoz, M. Date and place: On-line. From October 1 to 15, 2021. Santa Marta (Colombia).

V SIBECORP 2021. Form of participation: Poster design and exhibition 'Dimorfismo sexual en los parámetros de condición de la sardina europea (*Sardina pilchardus*) bajo el marco de variabilidad regional'. Authors: **Caballero-Huertas, M.**; Frigola-Tepe, X.; Viñas, J.; Muñoz, M. Date and place: On-line. From October 1 to 15, 2021. Santa Marta (Colombia).

World Fisheries Congress 2021. Form of participation: Oral presentation 'A holistic view of emerging stressors in European sardine condition and health status'. Authors: Frigola-Tepe, X.¹; **Caballero-Huertas, M.**¹; Viñas, J.; Muñoz, M. Date and place: On-line. From September 20 to 24, 2021. Adelaide (Australia).

ICES Annual Science Conference 2021. Form of participation: Oral presentation 'On fat and skinny sardine: regional variability assessment of condition'. Authors: **Caballero-Huertas, M.**; Serrat, A.; Frigola-Tepe, X.; Viñas, J.; Muñoz, M. Date and place: On-line. From September 6 to 9, 2021. Copenhagen (Denmark).

ICES Annual Science Conference 2021. Form of participation: Oral presentation 'Comparative study of the health status and the reproductive cycle of sardine in two different thermal regime areas of the Catalan coast'. Authors: Frigola-Tepe, X.; **Caballero-Huertas, M.**; Serrat, A.; Viñas, J.; Muñoz, M. Date and place: On-line. From September 6 to 9, 2021. Copenhagen (Denmark).

2nd International Webinar on Environmental Sustainability and Climate Change. Coalesce Research Group. Form of participation: Oral presentation 'Comparative study of the energetic and reproductive condition of the European pilchard between two nearby water bodies: the Atlantic Ocean and the Mediterranean Sea (south of the Iberian Peninsula)'. Authors: **Caballero-Huertas, M.**; Frigola-Tepe, X.; Fernández-Iniesta, C.; Viñas, J.; Muñoz, M. Date and place: On-line. From March 29 to 30, 2021. Coalesce Research Group LLC 33 Market Point Dr, Greenville, SC 29607 (USA).

2nd International Webinar on Environmental Sustainability and Climate Change. Coalesce Research Group. Form of participation: Oral presentation 'Pressure of parasitism, microplastics and thermal regimes on the state of health of European sardine along the Catalan Coast'. Authors: Frigola-Tepe, X.; **Caballero-Huertas, M.**; Gispert-Fontanet, N.; Viñas, J.; Muñoz, M. Date and place: On-line. From March 29 to 30, 2021. Coalesce Research Group LLC 33 Market Point Dr, Greenville, SC 29607 (USA).

Webinar on Environmental Sustainability and Climate Change. Coalesce Research Group. Form of participation: Oral presentation 'Energetic and reproductive condition analysis of European sardine during the spawning season from three Mediterranean water bodies'. Authors: **Caballero-Huertas, M.**; Frigola-Tepe, X.; Viñas, J.; Muñoz, M. Date and place: On-line. From November 9 to 10, 2020. Coalesce Research Group LLC 33 Market Point Dr, Greenville, SC 29607 (USA).

Webinar on Environmental Sustainability and Climate Change. Coalesce Research Group. Form of participation: Oral presentation 'Potential relationships between parasitism, condition and water temperature in sardines along the Catalan Coast'. Authors: Frigola-Tepe, X.; **Caballero-Huertas, M.**; Viñas, J.; Muñoz, M. Date and place: On-line. From November 9 to 10, 2020. Coalesce Research Group LLC 33 Market Point Dr, Greenville, SC 29607 (USA).

Aquaculture Europe 2019: Our Future Growing from Water. Form of participation: Experimental contribution and results discussion in thematic session: 'Zebrafish and LPS, model tools for deciphering epigenetic changes during sex differentiation'. Authors: Moraleda-Prados, J.; **Caballero-Huertas, M.**; Joly, S.; Roher, N.; Ribas, L. Date and place: from October 7 to 10, 2019. DE-10827 Berlin (Germany).

AIEC 2019 - XII Congress of the Iberian Association for Comparative Endocrinology. Form of participation: Experimental contribution, results discussion and poster design: 'Epigenetic crosstalk between immune and reproduction systems in zebrafish'. Authors: Moraleda-Prados, J.; **Caballero-Huertas, M.**; Joly, S.; Roher, N.; Ribas, L. Date and place: from September 26 to 28, 2019. University of Algarve, 8005-139 Faro (Portugal).

IMBRSea Annual Symposium: Diving into Marine Minds - Edition 2019. Form of participation: Poster design and exhibition showing the procedures and results of the Master's professional practices: 'Reproductive biology: application in fishery science'. Authors: **Caballero-Huertas, M.**; Supervisor: Alonso-Fernández, A. Date and place: from June 24 to 28, 2019. IUEM Technopôle Brest-Iroise, 29280 Plouzané, Brest (France).

4.3. Supervision and lecturing

Co-direction of the Doctoral thesis 'Adaptation des systèmes de production d'alevins de carpe commune en rizière face aux changements climatiques' - Nantenaina Patrick. University of Antananarivo.

Supervision and direction of the Master thesis 'Optimisation zootechnique d'une espèce endémique malgache en captivité : *Paratilapia* sp.' - Bénédicte Mac Carty Ramoranosandaina. ISTR.

Organizer and lecturer of the Seminar 'Le processus de publication : de la conception de la recherche à sa communication dans des revues scientifiques' **(40 h)** for PhD students from the doctoral programmes of the University of Tananarive. 22, 23, 24, 29 and 30th April, 2024.

Lecturer in Zoology: Practices (2.00 ECTS) and Animal Diversity: Practices (1.55 ECTS) for the Degree of Biology, Degree of Environmental Sciences, and Dual Degrees of Biology/Environmental Sciences and Biology/Biotechnology. University of Girona (UdG). From September to December, 2022.

Supervision and direction of the Degree Thesis in Biology 'Reserves energètiques de la sardina en funció de l'estadi reproductiu a l'oest de la Mediterrània' by Pere Amills Conesa. June 21, 2023.

Supervision and direction of the Degree Thesis in Biology 'Molecular characterization of nematode species present in the European Sardine of the Catalan Coast throughout its annual cycle' by Mireia Casas Cat. July 20, 2022.

Co-supervision of the Degree Thesis 'Estudi comparatiu de la condició energètica i estat de reproducció de la sardina en diferents àrees mediterrànies durant els mesos d'estiu' by Carla Fernández Iniesta. June 1, 2021

Seminar 'La carrera investigadora en Ciències Pesqueres en el context de canvi ambiental: testimonis, passos a seguir i recomanacions' to the Master's Degree in Environmental Change: Analysis and Management. Place and date: April 12, 2023. University of Girona, 17003 Girona (Spain).

Seminar 'Diferents camins per arribar al doctorat: recerca a nivell ambiental' to the Master's Degree in Environmental Change: Analysis and Management. Place and date: March 16, 2022. University of Girona, 17003 Girona (Spain).

Seminar on the world of Research: effects of environmental change on our fisheries ('Seminari sobre el món de la Recerca: efectes del canvi ambiental en les nostres pesqueries') to the Master's Degree in Environmental Change: Analysis and Management. Place and date: March 19, 2021. University of Girona, 17003 Girona (Spain).

5. Other relevant academic and/or scientific merits

- From September 14 to 22, 2023 '**Design or implementation of experimental procedures on an aquatic model**'. CNRS, 13009 Marseille (France).
- From February 13 to June 30, 2023 '**University Teaching Course: initial training. Itinerary A' (35 hours)**'. Institut de Ciències de l'Educació Josep Pallach (ICE), 17003 Girona (Spain).
- From October 8 to December 31, 2019 '**Thesis Preparation Course - Research Design, Data Management and Data Communication' (6 ECTS)**'. Ocean Teacher Platform from the Oceanographic Data and Information Exchange - IOC/UNESCO.
- From January 28 to February 1, 2019 **International Postgraduate Course 'Research in Marine Environment and Resources (RiMER 1 - 2019)' (3 ECTS)**. MER Consortium (Erasmus Mundus Master in Marine Environment UPV/EHU - SOTON - Ubx - ULiège). Aquarium - Sea Palace, 20003 Donostia - San Sebastián (Spain).
- In 2017 **Course and title 'Assessing Species' Extinction Risk Using IUCN Red List Methodology accredited by IUCN at an International and Regional level'**. IUCN (International Union for Conservation of Nature and Natural Resources).
- In June 2014 **Baccalaureate Scientific-Technological with honors** and the exemption of payment of the rates of the first year of Degree in Biology. IES Libertad, 45216 Carranque (Spain).
- In 2013 **Course and title of Monitor of Environmental Education**. Animal Record, 28939 Arroyomolinos (Spain).

6. Organization of outreach events

- 8 October, 2021 Member of the organization of the **multisectoral day 'La Sardina a la Costa Catalana'**. Universitat de Girona. 17003 Girona (Spain).
- In March 2017 Member of the organization of the **II Professional Conference of Biology**. Rey Juan Carlos University, 28933 Móstoles (Spain).

7. Volunteering and divulgation activities

- Divuligation in Prismàtic (Plataforma de Coneixement per a la Gestió del Patrimoni Natural i la Biodiversitat.): '**Tenir en compte la connectivitat de la sardina europea al llarg de la transició atlàntica-mediterrània és clau pel seu futur**'.
- Interviewed for **Dones de Mar, El Far**.
- February 2021, Participation in the podcast for the **International Day of Women and Girls in Science** at the University of Girona.

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- Interviewed at **Power Monday Podcast** (#69): Ecosistemes marins, ciència, viatjar i art amb Marta Caballero Huertas.
 - Interviewed at **Spanish Rock Shot Radio** ('Nunca es tarde').
 - From January 23 to 24, 2020 Organization of the **I Days of Science in 'La Almazara'**. Biochemistry workshops for primary school students. Cultural tourist center 'La Almazara', 45200 Illescas (Spain).
 - March 24, **Scientific session** 'Impactes del canvi climàtic i la sobrepesca a la sardina del Mediterrani' to 4^o year of primary school. Escola Les Falgueres, 17460 Celrà (Spain).
 - Periodically, **Lectures on scientific dissemination and motivation in Science and university career** to high school students (IES Libertad (45216 Carranque), IES Josefina Aldecoa (28925 Alcorcón) (Spain)).
 - Since January, 2020 **Scientific dissemination program on Radio Illescas 107.8 MHz FM 'Ciencia en la Onda'**. House of Culture, 45200 Illescas (Spain).

Signature and date: France, 26th August 2025

Marta Caballero Huertas