

WOAH Collaborative Centre Reports Activities 2023

Activities in 2023

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Centre Information

Title of WOA Collaborating Centre	Health of Marine Mammals
Address of WOA Collaborating Centre	Istituto Zooprofilattico Sperimentale PLVA, via Bologna 148, 10154, Torino; Facultad de Veterinaria, IULPGC, Campus Universitario Cardones de Arucas, 35413 Arucas, Las Palmas-Spain
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Name Director of Institute (Responsible Official):	Claudio Ghittino (IZSPLVA); Fernando Real Valcarel (IUSA)
Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Dr Cristina Casalone. Head of Neuropathology Department - IZSPLVA; Prof. Antonio Fernandez. Director of University Institute of Animal Health and Food Safety IUSA-ULPGC
Name of the writer:	Cristina Casalone

TOR1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Disease control (true)	1. Avian influenza in cetaceans 2. Emergent viral diseases in cetaceans: pathologic and molecular diagnostic 3. Cetaceans as One Health indicators	1. Development of a procedure protocol in case of the appearance on avian influenza in cetacean populations. 2. Histopathologic and molecular analysis of samples from stranded animals in the Canary Islands 3. Control of cetacean diseases as indicators for different environmental conditions and animal and human diseases situation
Epidemiology, surveillance, risk assessment, (true)	1. Phylo-geographic analysis of Brucella ceti strains in marine mammals of Italy (WGS) by WOA Reference Laboratory for Brucellosis (IZSAM, Italy) recovered by C.Re.Di.Ma. Diagnostic coordination activity, Italy 2. Genomic sequencing of morbillivirus strains in marine mammals of Italy, recovered by C.Re.Di.Ma. diagnostic coordination activity, Italy 3. Implementation of the International Whaling Commission (IWC) National Progress Report (PR) 4. Andalucía stranding network collaboration 5. GLOBICAN 6. Cetacean stranding	1. Investigation on Brucella ceti infection in marine mammals in Italy, giving insights on the phylogenetic structure of Mediterranean isolates 2. Investigation on morbillivirus infection in marine mammals in Italy, giving insights on genome sequences of strains circulating 3. Implementation of the National Progress Report (PR) with data related to C.Re.Di.Ma database and 2022 ship strike and by catch events recorded in Italy 4. Histopathologic and molecular analysis of samples from stranded animals in the coasts of Andalucía, Spain 5. Sanitary evaluation of the local groups of G. macrorhynchus in the Canary Islands, as well as of the risk factors for their conservation associated with the anthropic action on their areas of residency 6.

	procedures	Collaboration with the government for the development and implementation of appropriate stranding and necropsy protocols.
Training, capacity building (true)	<p>1. Training course on "Necropsy procedures and diagnostic evaluation of stranded cetaceans" 2. Training course "First aid for stranded cetaceans in the Liguria region" 3. Necropsy training in cetaceans 4. Workshop: What is new in cetacean pathology? 5. Fauna Zoonosis training</p>	<p>1. This training was organized by C.Re.Di.Ma. in collaboration with the University of Padua, on January 17-19, in Agripolis (PD). The aim was to increase the participants' knowledge on necropsy procedures and diagnostic techniques to be applied on carcasses of stranded cetaceans. Participants: Italian Network of Istituti Zooprofilattici Sperimentali- Italian National Public Health Services - Italian Universities 2. This training was organized in collaboration with the Cetacean Strandings Emergency Response Team (CERT) of the University of Padua, in Imperia, on 6-7 June 2023. The aim was to increase the participants' knowledge on the management, monitoring and release of cetaceans, with a specialized approach to the assessment of the state of health, the intervention on subjects trapped in fishing gear or anthropogenic waste, the application of rehabilitation, sedation and/or euthanasia, based on different contexts and skills. Participants: veterinarians, biologists, naturalists, professionals involved in regional stranding network 3. Theoretical and practical workshop on the necropsy procedures on cetaceans, with special attention to the detection of avian influenza 4. Participation with a number of informative sessions on different cetacean pathology subjects during de European Cetacean Society meeting in April 2023. 5. Program dedicated to the training of veterinarians in the zoonotic diseases of wild animals</p>
Zoonoses (true)	Emerging and re-emerging zoonosis surveillance in marine mammals (i.e. brucellosis, salmonellosis, toxoplasmosis, etc) in Italy	Coordination of surveillance and control activities performed by the Italian National Public Health Services (Istituti Zooprofilattici Sperimentali network)
Aquatic animal diseases (true)	Arterial Aging	Age-related arterial dysfunction and gut dysbiosis in mice and cetaceans
Animal welfare (true)	<p>1. Nicola Pussini, Short Specialization Course in Conservation Medicine of Aquatic Animal - Anesthesia, teleanesthesia and Euthanasia in marine mammals. Department of Comparative Biomedicine and Food Science – University of Padova. a.y. 2022/2023. 2. Nicola Pussini, Degree course in Course in Animal care- "Infectious diseases: The Management and Medical Care of Pinnipeds and aquatic flightless birds" and "First aid techniques and clinical/surgical procedures in Pinnipeds and Penguins" and "Aquatic animal care in clinical settings", Department of Comparative Biomedicine and Food Science – University of Padova. a.y. 2022/2023. 3. Encouragement of Whale Watching Activities 4. Environmentally sustainable fishing</p>	<p>1. Correct management of live stranded cetaceans 2. Correct management of live pinnipeds 3. Encouragement of the ecotourist whale watching activities as a model of sustainable economic development as well as of protection and conservation of the cetacean populations in the Macaronesian Area 4. Collaboration with the government for the development of fishing methods that are friendly with the cetacean populations and the environment</p>
Diagnosis, biotechnology and laboratory (true)	Decompressive pathology in cetaceans	Development of diagnostic tools for the decompressive pathology in cetaceans, as well as study of the action mechanisms of the disease.

TOR3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable area
Syndromic Surveillance for UMEs	Monitor stranding trends along the Italian coastline; early detection of Unusual Mortality Events (UMEs) by a syndromic surveillance tool to monitor stranding trends, useful for early detection of Unusual Mortality Events (UMEs)	health management

3. In exercising your activities, have you identified any regulatory research needs* relevant for WOA?H?

No

4. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Cetaceans' strandings Emergency Response Team (CERT) of the University of Padua, Italy	Padua, Italy	Europe	Collaboration with the task force to intervene in case of stranding of live animals, large whales, mass strandings, and Unusual Mortality Events (UMEs), along the whole Italian peninsula.
Istituti Zooprofilattici Sperimentali diagnostic network (IIZZSS)	Italy	Europe	Coordination of diagnostic investigations and data collection on stranded marine mammals and by catch events recorded in Italy.
International Whaling Commission (IWC)	Impigton, Cambridge, UK	Europe	Collaboration with the panel of experts of the organization. Updating of the National Progress Report (PR) with data related to C.Re.Di.Ma database and 2022 ship strike
Cetaceans strandings Emergency Response Team of the University of Las Palmas de Gran Canaria	Las Palmas, Canary Islands	Europe	Response to the cases of cetacean strandings in the Canary Islands archipelago, performing the necropsy and managing the disposal of the carcass.

TOR4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose

WOAH Avian Influenza	Spain	Europe	Development of a guide for the detection of Avian Influenza in marine mammals
WOAH Brucella	Italy	Europe	Brucella cety Typing
WOAH BSE	Italy	Europe	Neuropathological investigations and diagnostic tools
WOAH scrapie	Italy	Europe	Neuropathological investigations and diagnostic tools
WOAH Coll. Centre Animal/Human interface	Italy	Europe	Diagnosis of zoonotic agents

TOR6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOA?H?

Yes

NAME OF EXPERT	KIND OF CONSULTANCY	SUBJECT
Antonio Fernández	Training	Necropsy and cetacean pathology theoretical and practical training. Servicio Nacional de Pesca y Acuicultura (SERNAPESCA), Chile
Paula Alonso Almorox	Collaboration	Sanitary control of marine mammals in the province of Chubut: emerging diseases, zoonosis and health/disease indicators.
Yara Bernaldo de Quirós	Training	Arterial function and arterial aging. Project Age-related arterial dysfunction and gut dysbiosis in mice and cetaceans (Arterial Aging). University of Colorado Boulder, United States.
Carla Fiorito	Collaboration / training	Field and laboratory necropsies of stranded marine mammals (pinnipeds and cetaceans) during Highly Pathogenic Avian Influenza (HPAI) H5N1 outbreak in Chubut, Argentina. Centro para el Estudio de Sistemas Marinos (CESIMAR-CONICET). Centro Nacional Patagónico (CENPAT - CONICET), Puerto Madryn, Chubut, Argentina.
Paula Alonso Almorox	Research stay	Field and laboratory necropsies of stranded marine mammals (pinnipeds and cetaceans) and histopathological diagnosis of samples obtained within the framework of the project titled "Vigilancia sanitaria de mamíferos marinos de la provincia del Chubut: Enfermedades emergentes, zoonosis e indicadores de salud/enfermedad". Centro para el Estudio de Sistemas Marinos CESIMAR-CONICET, Puerto Madryn, Chubut, Argentina.
		IIM-CSIC: Collaboration with the project MERMACIFRA. Contribution to the elaboration of reports of cetacean bycatch in Galician waters, organization of workshops (diet,

Raquel Puig Lozano	Research stay	pathology and parasitic study of stomachs of stranded cetaceans in Galician waters; study of age and sexual maturity through teeth and gonad samples of stranded cetaceans), and formation of the technicians, biologist and veterinarians of the stranding networks of the north of the Iberian Peninsula. CEMMA: Collaboration in field and laboratory necropsies of stranded marine mammals (pinnipeds and cetaceans), sea turtles, and sharks of Galician waters. Rescue and maintenance of alive stranded individuals. Whale-watching studies. Divulcation and citizen science. IMM-CSIC: Instituto de Investigaciones Marinas, Centro Superior de Investigaciones Científicas, Vigo, Pontevedra, Galicia, España. CEMMA: Coordinadora para o Estudo dos Mamíferos Mariños, Nigrán, Pontevedra, Galicia, España.
Antonio Fernández	Collaboration / training	Investigation of fisheries interaction in northern Spain and development of a cetacean necropsy protocol. Ministerio de Agricultura, Pesca y Alimentación (MAPA), Spain
Antonio Fernandez Cristina Casalone Carla Fiorito Carla Grattarola Eva Sierra Virginia Mattioda	Elaboration of guidelines	Working group in the elaboration of practical guidelines for IA in marine mammals
Antonio Fernandez Cristina Casalone	Participation to WOAHP Group	Being part of WOAHP Wildlife Collaborating Centre Network Group. First meeting in Paris 20-21 November 2023

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

No

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAHP, to personnel from WOAHP Members?

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 230

d) Internships (>1 month) : 0

TYPE OF TECHNICAL TRAINING PROVIDED (A, B, C OR D)	CONTENT	COUNTRY OF ORIGIN OF THE EXPERT(S) PROVIDED WITH TRAINING	NO. PARTICIPANTS FROM THE CORRESPONDING COUNTRY
C	Theoretical and practical training in the necropsy procedure in cetaceans for the detection of avian influenza	Chile	230

TOR8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOAHP?

Yes

NATIONAL/INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	International River Dolphin Veterinary Assessment Workshop	NOT PRESENT	2023-12-11	Valencia, Spain and Gran Canaria, Spain	25
	Avian Influenza in marine				

International	mammals; Pathology, Epidemiology and conservation	SERNAPESCA	2023-05-09	Andrés Belo National University, Chile	150
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TOR9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOAAH that may be useful to Members of WOAAH

a) Articles published in peer-reviewed journals:

28

-Grattarola, C.; Petrella, A.; Lucifora, G.; Di Francesco, G.; Di Nocera, F.; Pintore, A.; Cocumelli, C.; Terracciano, G.; Battisti, A.; Di Renzo, L.; et al. *Brucella ceti* Infection in Striped Dolphins from Italian Seas: Associated Lesions and Epidemiological Data. *Pathogens* 2023, 12, 1034. <https://doi.org/10.3390/pathogens12081034>

-Vargas-Castro I, Peletto S, Mattioda V, Gorla M, Serracca L, Varello K, Sánchez-Vizcaíno JM, Puleio R, Nocera FD, Lucifora G, Acutis P, Casalone C, Grattarola C and Giorda F (2023) Epidemiological and genetic analysis of Cetacean Morbillivirus circulating on the Italian coast between 2018 and 2021. *Front. Vet. Sci.* 10:1216838. doi: 10.3389/fvets.2023.1216838

-Grattarola, C.; Minoia, L.; Giorda, F.; Consales, G.; Capanni, F.; Ceciari, I.; Franchi, E.; Ascheri, D.; Garibaldi, F.; Dondo, A.; et al. Health Status of Stranded Common Bottlenose Dolphins (*Tursiops truncatus*) and Contamination by Immunotoxic Pollutants: A Threat to the Pelagos Sanctuary—Western Mediterranean Sea. *Diversity* 2023, 15, 569. <https://doi.org/10.3390/d15040569>

-Mattioda, V.; Benedetti, V.; Tessarolo, C.; Oberto, F.; Favole, A.; Gallo, M.; Martelli, W.; Crescio, M.I.; Berio, E.; Masoero, L.; et al. Pro-Inflammatory and Cytotoxic Effects of Polystyrene Microplastics on Human and Murine Intestinal Cell Lines. *Biomolecules* 2023, 13, 140. <https://doi.org/10.3390/biom13010140>

-Romani-Cremaschi U, Zoppi S, Mattioda V, Audino T, Marsili L, Varello K, Iulini B, Marra C, Zoccola R, Battistini R, Dondo A, Garibaldi F, Berio E, Pautasso A, Rosso M, Ascheri D, Casalone C, Grattarola C and Giorda F (2023) *Morganella morganii* septicemia and concurrent renal crassicaudiasis in a Cuvier's beaked whale (*Ziphius cavirostris*) stranded in Italy. *Front. Mar. Sci.* 9:1058724. doi: 10.3389/fmars.2022.1058724

-Ascheri D, Fontanesi E, Marsili L, Berio E, Garibaldi F, Gorla M, Serracca L, Dondo A, di Francesco CE, Varello K, Casalone C, Giorda F e Grattarola C., "Post-mortem examination on a striped dolphin (*Stenella coeruleoalba*) reveals a potential fatal interaction with bottlenose dolphins (*Tursiops truncatus*) in Italian waters." (accepted by *Journal of the Marine Biological Association of the United Kingdom*)

Authors: Sambolino, A., Rodriguez, M., De la Fuente, J., Arbelo, M., Fernández, A., Kaufmann, M., Cordeiro, N., Dinis, A.

Title: Optimization and validation of a micro-QuEChERS method for phthalates detection in small samples of cetacean blubber

Journal: *MethodsX*, 12, 102502, (2023) <https://doi.org/10.1016/j.mex.2023.102502>

Citations: 0

IF: 1.9

Authors: Ulloa, M., Fernández, A., Ariyama, N., Colom-Rivero, A., Rivera, C., Nuñez, P., Sanhueza, P., Johow, M., Araya, H., Torres, J. C., Gomez, P., Muñoz, G., Agüero, B., Alegría, R., Medina, R., Neira, V., & Sierra, E.

Title: Mass mortality event in South American sea lions (*Otaria flavescens*) correlated to highly pathogenic avian influenza (HPAI) H5N1 outbreak in Chile

Journal: *Veterinary Quarterly*, 43(1), 1–10. (2023) <https://doi.org/10.1080/01652176.2023.2265173>

Citations: 0

IF: 6.4 (Q1)

Authors: Segura- Göthlin, S., Fernández, A., Arbelo, M., Andrada, M., Felipe-Jiménez, I., Colom-Rivero, A., Fiorito, C., Sierra, E.

Title: Viral skin diseases in odontocete cetaceans: gross, histopathological, and molecular characterization of selected pathogens

Journal: *Frontiers in Veterinary Science*, 10 (2023) <https://doi.org/10.3389/fvets.2023.1188105>

Citations: 0

IF: 3.2 (Q1)

Authors: Lilao-Garzón, J., Brito-Casillas, Y., Quesada-Canales, O., Wägner, A.M., & Muñoz-Descalzo, S.

Title: Maternal age, obesity and hyperglycaemia are associated with a delay in preimplantation embryo development in mouse

Journal: *Reproduction* (2023) <https://doi.org/10.1101/2022.10.11.511721>

Citations: 0

IF: 3.8 (Q2)

Authors: Neves, A., Doh, Y., Sacchini, S., Delory, E., Fernández, A. & Castro-Alonso, A.

Title: Advanced Technologies for Cetacean Monitoring: A One-Health and Multidisciplinary Approach for Ocean Effective Surveillance

Journal: *Journal of Marine Science and Engineering*, 11(7), 1431 (2023) <https://doi.org/10.3390/jmse11071431>

Citations: 0

IF: 2.9 (Q1)

Authors: Velázquez-Wallraf, A., Caballero, M. J., Fernández, A., Betancor, M. B., Saavedra, P., Hemingway, H. W., & Bernaldo de Quirós, Y.

Title: Biomarkers related to gas embolism: Gas score, pathology, and gene expression in a gas bubble disease model

Journal: *PloS one*, 18(7), e0288659. (2023) <https://doi.org/10.1371/journal.pone.0288659>

Citations: 0

IF: 3.7 (Q2)

Authors: Usategui-Martín, A., Valverde, R.A., Ostiategui-Francia, P., Fariñas-Bermejo, A., Paz-Sánchez, Yania. & Liria-Loza, A.

Title: First skeletochronological analysis on loggerhead yearlings (*Caretta caretta*) in the Canary Islands

Journal: *Marine Biology*, 170, 95 (2023). <https://doi.org/10.1007/s00227-023-04239-8>

Citations: 0

IF: 2.4 (Q2)

Authors: Fernández, A., Câmara, N., Sierra, E., Arbelo, M., Bernaldo de Quirós, Y., Jepson, P., Deaville, R., Díaz-Delgado, J., Suárez-Santana, C., Castro, A., Hernández, J., Alves-Godinho, A.

Title: Cetacean Intracytoplasmic Eosinophilic Globules: A Cytomorphological, Histological, Histochemical, Immunohistochemical, and Proteomic Characterization

Journal: *Animals*, 13 (13), 2130. (2023) <https://doi.org/10.3390/ani13132130>

Citations: 0

IF: 3.0 (Q1)

Authors: González-Bareiro, E., Montesdeoca-Esponda, S., De la Fuente, J., Sosa-Ferrera, Z., Arbelo, M., Fernández, A., Santana-Rodríguez, J.

Title: Assessment of the presence of UV filters and UV stabilizers in stranded dolphin blubber

Journal: *Science of the Total Environment*, 895 (2023) <https://doi.org/10.1016/j.scitotenv.2023.165041>

Citations: 0

IF: 9.8 (Q1)

Authors: Fernández, A., Díaz-Santana, P., Andrada, M., Marrero, L., Alonso, P., Consoli, F., Navarro, J., Fiorito, C., Díaz-Santana, C.

Title: *Canarian common ravens electrocution: a post-mortem case study*

Journal: *Journal of Comparative Pathology*, 203, 87 (2023) <https://doi.org/10.1016/j.jcpa.2023.03.163>

Citations: 0

IF: 0.8 (Q1)

Authors: Stefanova, E.P., Quesada-Canales, Ó., Paz-Sánchez, Y., Caballero, M. J., Quintana-Montesdeoca, M.D.P., Espinosa de Los Monteros, A., Rivero, M.A., Castro, A., Pérez, V., & Andrada, M.

Title: Morphological Assessment of Concomitant Lesions Detected in Goat Herds Naturally Infected with Paratuberculosis (*Johne's Disease*)

Journal: *Animals*, 13(10), 1693. (2023) <https://doi.org/10.3390/ani13101693>

Citations: 0

IF: 3.0 (Q1)

Authors: Ramos-Sosa, M. J., García-Álvarez, N., Sanchez-Henao, A., Padilla, D., Sergent, F.S., Gago-Martínez, A., Diogène, J., Caballero, M.J., Fernández, A., & Real, F.

Title: Ciguatera-like toxicity distribution in flesh of amberjack (*Seriola spp.*) and dusky grouper (*Epinephelus marginatus*)

Journal: *Environmental Research*, 228, 115869. (2023) <https://doi.org/10.1016/j.envres.2023.115869>

Citations: 2

IF: 8.3 (Q1)

Authors: Segura-Göthlin, S., Fernández, A., Arbelo, M., Almunia, J., von Fersen, L., Baumgartner, K., Garcés, J.G., Llanos, A.G., Felipe-Jiménez, I., Colom-Rivero, A. & Sierra, E.

Title: Towards understanding host-pathogen dynamics of cetacean poxvirus: attainable approach through the application of a repetitive non-invasive skin sampling in bottlenose dolphins (*Tursiops truncatus*) under human care

Journal: *Frontiers in Marine Science* 10:1125629. (2023) <https://doi.org/10.3389/fmars.2023.1125629>

Citations: 0

IF: 3.7 (Q1)

Authors: Rodríguez, J., Santana, A., Andrada, M., Herráez, P., Killick, D. R., & Espinosa de Los Monteros, A.

Title: Epidemiology of canine cutaneous round cell tumours on the canary archipelago in Spain

Journal: *Veterinary and Comparative Oncology* (2023) <https://doi.org/10.1111/vco.12899>

Citations: 0

IF: 2.1 (Q2)

Authors: Felipe-Jiménez, I., Fernández, A., Bernaldo de Quirós, Y., Arregui-Gil, M., Puig-Lozano, R., Arbelo, M., & Sierra, E.

Title: Cerebral nasitremitis in a Blainville's beaked whale (*Mesoplodon densirostris*) stranded in the Canary Islands

Journal: *Research in Veterinary Science*, 158, 56–64. (2023) <https://doi.org/10.1016/j.rvsc.2023.03.009>

Citations: 0

IF: 2.4 (Q1)

Authors: Espinosa García-San Román, J., Quesada-Canales, O., Arbelo, M., Déniz Suárez, S., & Castro-Alonso, A.

Title: *Veterinary Education and Training on Non-Traditional Companion Animals, Exotic, Zoo, and Wild Animals: Concepts Review and Challenging Perspective on Zoological Medicine*

Journal: *Veterinary Sciences*, 10, 357. (2023) <https://doi.org/10.3390/vetsci10050357>

Citations: 0

IF: 2.4 (Q1)

Authors: Suárez-Santana, C.M., Sierra, E., Marrero-Ponce, L., Colom-Rivero, A., Navarro-Sarmiento, J., Segura-Göthlin, S., Castro-Alonso, A. & Quesada-Canales, O.

Title: *Infection due to Buteo buteo herpesvirus in a common buzzard (Buteo buteo insularum)*
Journal: *Frontiers in Veterinary Science*, 10: 1152920. (2023) <https://doi.org/10.3389/fvets.2023.1152920>
Citations: 0
IF: 3.2 (Q1)

Authors: Sarmiento-Lezcano, A.N., Olivar, M.P., Caballero, M.J., Couret, M., Hernández-León, S., Castellón, A., & Peña, M.
Title: *Swimbladder properties of Cyclothone spp. in the northeast Atlantic Ocean and the Western Mediterranean Sea*
Journal: *Frontiers in Marine Science*, 10. (2023) <https://doi.org/10.3389/fmars.2023.1093982>
Citations: 1
IF: 3.7 (Q1)

Authors: Morick, D., Davidovich, N., Zemah-Shamir, Z., Kroin, Y., Bigal, E., Sierra, E., Segura-Göthlin, S., Wosnick, N., Hauser-Davis, R. A., Tchernov, D., & Scheinin, A. P.
Title: *First description of a Gammaherpesvirus in a common dolphin (Delphinus delphis) from the Eastern Mediterranean Sea*
Journal: *Veterinary Research Communications*. (2023) <https://doi.org/10.1007/s11259-023-10125-x>
Citations: 0
IF: 2.2 (Q2)

Authors: Violi, B., de Jong, M.J., Frantzis, A., Alexiadou, P., Tardy, C., Ody, D., de Stephanis, R., Giménez, J., Lucifora, G., Silva, M. A.E., Oliveira, C., Alves, F., Dinis, A., Tejedor, M., Fernández, A., Arregui, M., Arbelo, M., Lopez, A., Covelo, P., & Hoelzel, A.R.
Title: *Genomics reveals the role of admixture in the evolution of structure among sperm whale populations within the Mediterranean Sea*
Journal: *Molecular Ecology*. (2023). <https://doi.org/10.1111/mec.16898>
Citations: 1
IF: 4.9 (Q1)

Authors: Meyer, G., Puig-Lozano, R., & Fernández, A.
Title: *Anthropogenic litter in terrestrial flora and fauna: Is the situation as bad as in the ocean? A field study in Southern Germany on five meadows and 150 ruminants in comparison with marine debris*
Journal: *Environmental Pollution*, 121304. (2023) <https://doi.org/10.1016/j.envpol.2023.121304>
Citations: 0
IF: 8.9 (Q1)

Authors: Caballero, M.J., Perez-Torrado, F.J., Velázquez-Wallraf, A., Betancor, M.B., Fernández, A. & Castro-Alonso, A.
Title: *Fish mortality associated to volcanic eruptions in the Canary Islands*
Journal: *Frontiers in Marine Science*, 9. (2023) <https://doi.org/10.3389/fmars.2022.999816>
Citations: 0
IF: 3.7 (Q1)

b) International conferences:

22

-Baini M., Galli M., Grattarola C., Panti C., Corazzola G., Mancusi C. et al. "Marine debris ingestion in five cetacean species stranded along the Italian coast". Conferenza "34th European Cetacean Society Conference ECS", Galicia, O Groove, 17-21 aprile 2023,

-Ascheri D., Grattarola C., Mattioda V., Battaglia F., Pedrazzini A.C., Fontanesi E. "Occurrence of tattoo skin lesions in bottlenose dolphins (*Tursiops truncatus*) related to exceptional climatic events in the Western Ligurian Sea". Conferenza "34th European Cetacean Society Conference ECS", Galicia, o Groove, 17-21 aprile 2023

-Pietrolungo G., Centelleghè C., Corazzola G., Ceolotto L., Toffan A., Rubini S. et al. "The application of the post-mortem diagnostic framework to determine fishery interaction index". Conferenza "34th European Cetacean Society Conference ECS", Galicia, o Groove, 17-21 aprile

-Mattioda V., Grattarola C., Petrella A., Lucifora G., Di Francesco G., Di Nocera F. et al., "Brucella ceti infection in cetaceans from Italian Seas: associated lesions and epidemiological data" Conferenza "34th European Cetacean Society Conference ECS", Galicia, O Groove, 17-21 aprile 2023

-Minoia L., Grattarola C., Giorda F., Cosales G., Capanni F., Ceciarini I. et al. "Contaminanti immunotossici negli esemplari di *Tursiops truncatus* del Santuario Pelagos e loro stato di salute: qual è il rischio reale?". Convegno BioDiv 2023, Ravenna, 18-19 Settembre 2023

Title: *Threats affecting the cetacean populations in Macaronesia*

Authors: De la Fuente, J

Type of participation: Oral Presentation

Name of conference/meeting: 25th From Red to Green

Publication: Conference Proceedings

Location and date: European Parliament, 14th-25th October 2023

Title: *Successful Science based Medium Frequency Active SONAR moratorium in the Canary Islands*

Authors: Fernández, A.

Type of participation: Oral Presentation

Name of conference/meeting: 25th From Red to Green

Publication: Conference Proceedings

Location and date: European Parliament, 24th-25th October 2023

Title: *Influenza Aviar en Mamíferos Marinos, Patología, Epidemiología y Conservación*

Authors: González, C., Fernández, A., Ulloa, M.

Type of participation: Oral presentation

Name of conference/meeting: Seminario Influenza Aviar en Mamíferos Marinos en Chile

Publication: Conference Proceedings

Location and date: Chile, 09-16th May 2023

Title: *Allocation and use of body energy reservoirs in striped dolphins (Stenella coeruleoalba) and Blainville's beaked whales (Mesoplodon densirostris): the snowball effect in negative energetic balances*

Authors: Bernaldo de Quiros, Y., Arregui, M., Fernández, A., Arbelo, M., Câmara, N., Consoli, F., Fahlman, A., Palomino-Schätzlein, M., Puig-Lozano, R., Rivero, M., Sierra, E., Suárez-Santana, C., Tejedor, M., Caballero, M.J.

Type of participation: Oral presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *Budd-Chiari-like pathology in dolphins*

Authors: Fernández, A., Jepson, P.D., Díaz-Delgado, J., Bernaldo de Quiros, Y., Sierra, E., Suárez-Santana, C.M., Andrada, M., Rivero, M., Espinosa de los Monteros, A., Herráez, P., Caballero, M.J., Consoli, F., Castro-Alonso, A., Quesada-Canales, O., Di Guardo, G., Arbelo, M.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *Ship strikes: two cases of fin whales stranded on the South Atlantic Spanish coast*

Authors: Fernández-Maldonado, C., Arbelo, M., Fernández, A., Díaz-Delgado, J., Bernaldo de Quiros, Y., De la Fuente, J., Arregui, M., Sierra, E.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *Herpesvirus-associated genital lesions in two short-beaked common dolphins (Delphinus delphis) stranded in Península Valdés, Argentina*

Authors: Fiorito, C., Felipe-Jiménez, I., Colom-Rivero, A., Segura-Göthlin, S., Fernández, A., Lombardo, D., Sierra, E.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *A blainville's beaked whale stranded in the Canary Islands due to an attack of orcas with a review of the strandings of the species in the archipelago* Authors: Fusar

Polí, F., Tejedor, M., Carillo, M., Fiorito, C., Arbelo, M., Fernández, A., Martín, V.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *Evaluation of the number and size of blubber adipocytes as a method to establish body condition in striped dolphins (Stenella coeruleoalba)*

Authors: Balboa Mejuto, L., Bernaldo de Quiros, Y., Castro-Alonso, A., Arbelo, M., Fernández, A.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *Design and application of a real time molecular polymerase chain reaction (PCR) for the detection of Erysipelothrix rhusiopathiae in cetaceans*

Authors: Sierra, E., Fernández, A., Felipe-Jiménez, I., Segura-Göthlin, S., Colom-Rivero, A., Díaz-Santana, P., Suárez-Santana, C.M., Fiorito, C., Arbelo, M.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: *Anatomopathological findings on harbour porpoises (Phocoena phocoena) stranded in Galician coast, NW, Spain*

Authors: Pin, X., Puig-Lozano, R., López, A., Covelo, P., Vázquez, U., González, M., Martínez, J., Arbelo, M., Sierra, E., Fernández, A.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: Stranded cetaceans provide an evidence of ongoing interactions with fisheries in Galician waters

Authors: Puig-Lozano, R., López, A., Covelo, P., Pin, X., Vázquez, U., González, M., Martínez-Cedeira, J.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: Combination of scoliosis-kyphosis-lordosis deformities and infectious processes observed in a wild adult bottlenose dolphin with by-catch evidence

Authors: Alemañ, N., Covelo, P., Puig-Lozano, R., Barreiro, J.D., Pin, X., Molpeceres-Diego, I., Fiorito, C., Sanmartin, P., López, A.

Type of participation: Poster presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: Contribution of European stranding networks to understanding and quantifying marine mammal bycatch mortality

Authors: Fariñas-Bermejo, A., Petitguyot, M., Brownlow, A., Aloha, M., Álvarez-Neche, E., Arbelo, M., Authier, M., Berrow, S., Bjørge, A., Brasseur, S., Centellas, A., Cervin, L., Claver, C., Covelo, P., Crespo, J.L., Dablin, W., Dähne, M., Deaville, R., Domingo Álvarez, M., Escribano, F., Evans, P.G.H., Fayor-Martínez, M., Fernández, A., Fernández-Maldonado, C., Freitas, L., Galatius, A., Garrido, L., Geut, M., Gilles, A., Gozalbes-Aparicio, P., Haelters, J., Halldórsson, S.D., IJsseldijk, L., Kåre Jensen, T., Kavanagh, A., Keijl, G., Leopold, M., López, A., López-Pérez, M.I., Marçalo, A., Marques, N., Martínez-Cedeira, J.A., Mikkelsen, B., Miodonsk, J., Montes, J.E., Neimanis, A., Pawliczka, I., Petersen, H.H., Persson, S., Plikshs, M., Puig-Lozano, R., Raga, J.A., Roos, A., Ruiz Sancho, L., Saavedra, C., Santos, M., Siebert, U., Solomando Marti, A., Stavenow, J., Thøstesen, C.B., van der Hiele, J., Varas, J., Verdaat, H., Verheul, D., Arnór Víkingsson, G., Villalón, J., Woodlock, J., Pierce, G.J.

Type of participation: Oral presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: Viral skin diseases in odontocete cetaceans: gross, histopathological, and molecular characterization of selected pathogens *Authors: Segura-Göthlin, S., Fernández, A.,*

Arbelo, M., Andrada, M., Almunia, J., Felipe-Jiménez, I., Colom-Rivero, A., Fiorito, C., Sierra, E.

Type of participation: Oral presentation

Name of conference/meeting: 34th Annual Conference of the European Cetacean Society

Publication: Conference Proceedings

Location and date: O Grove, Spain, 16th April – 20th April 2023

Title: El papel de los zoos y acuarios ante la sexta extinción

Authors: Fernández, A.

Type of participation: Oral presentation

Name of conference/meeting: Congreso Anual Asociación Ibérica de Zoos y Acuarios 2023

Publication: Conference Proceedings

Location and date: Las Palmas de Gran Canaria, Spain, 2nd March – 4th March 2023.

Title: Patología Veterinaria en la Conservación de los Cetáceos

Authors: Fernández, A.

Type of participation: Oral presentation

Name of conference/meeting: Congreso Anual Asociación Ibérica de Zoos y Acuarios 2023

Publication: Conference Proceedings

Location and date: Las Palmas de Gran Canaria, Spain, 2nd March – 4th March 2023.

c) National conferences:

19

Title: L'infezione da Brucella ceti nei cetacei dei mari italiani: lesioni associate ed epidemiologia

Authors: Testori C., Grattarola C, Petrella A, Lucifora G., Di Francesco G., Di Nocera F., Pintore A. et *Type of participation: poster presentation*

Name of conference/meeting: Congresso Nazionale Società di Diagnostica di Laboratorio Veterinaria (SIDILV)

Publication: Conference Proceedings

Location and date: Brescia, 11-13 ottobre 2023.

Title: Pro-Inflammatory and Cytotoxic Effects of Polystyrene Microplastics on Human and Murine Intestinal Cell Lines

Authors: Mattioda V., Benedetti V., Tessarolo C., Oberto F., Favole A., Gallo M. et al

Type of participation: poster presentation

Name of conference/meeting: Congresso Nazionale Società di Diagnostica di Laboratorio Veterinaria (SIDILV)

Publication: Conference Proceedings

Location and date: Brescia, 11-13 ottobre 2023.

Title: Aggiornamento sull'attività diagnostica degli IZZSS sui cetacei spiaggiati in Italia (2022-2023)

Authors: Giorda F

Name of conference/meeting: Convegno Nazionale del Credima

Type of participation: Oral presentation

Location and date: Ancona 25-26 Ottobre 2024

Title: Risultati preliminari Progetto "Mare in Rete"

Authors: Pussini N

Name of conference/meeting: Convegno Nazionale del Credima

Type of participation: Oral presentation

Location and date: Ancona 25-26 Ottobre 2024

Title: Esperienze nella creazione dei Rescue Team lungo le coste italiane

Authors: Grattarola C

Name of conference/meeting: Convegno Nazionale del Credima

Type of participation: Oral presentation

Location and date: Ancona 25-26 Ottobre 2024

Title: Framework diagnostici per valutazione interazione con attività antropiche: novità e loro applicazione

Authors: Grattarola C

Name of conference/meeting: Convegno Nazionale del Credima

Type of participation: Oral presentation

Location and date: Ancona 25-26 Ottobre 2024

Title: Valutazione dell'impatto di fattori biotici ed abiotici sulla neurobiologia dei cetacei ed altri organismi marini in un contesto di cambiamento climatico

Authors: Testori C

Name of conference/meeting: Convegno Nazionale del Credima

Type of participation: Oral presentation

Location and date: Ancona 25-26 Ottobre 2024

Title: Effetti citotossici e pro-infiammatori delle microplastiche in vitro

Authors: Mattioda V

Name of conference/meeting: Convegno Nazionale del Credima

Type of participation: Oral presentation

Location and date: Ancona 25-26 Ottobre 2024

Title: Update sull'attività diagnostica del C.Re.Di.Ma sui cetacei spiaggiati

Authors: Grattarola C

Name of conference/meeting: Corso di formazione "Primo soccorso di cetacei spiaggiati in Regione Liguria"

Location and date: Auditorium Museo Navale di Imperia

Title: Attività svolte dal Credima e dalla Rete nazionale degli IZZSS in Italia

Authors: Casalone

Name of conference/meeting: Cosa succede nei nostri mari: attività diagnostica sui mammiferi marini spiaggiati in Italia. Live Webinar SIDILV

Location and date: Live Webinar SIDILV 20 July 2023

Title: Diagnostica generale nei mammiferi marini

Authors: Grattarola C

Name of conference/meeting: Cosa succede nei nostri mari: attività diagnostica sui mammiferi marini spiaggiati in Italia. Live Webinar SIDILV

Location and date: Live Webinar SIDILV 20 July 2023

Title: Diagnosi e caratterizzazione neuropatologica dell'infezione da Dolphin morbillivirus(DMV) nei cetacei spiaggiati in Italia

Authors: Mattioda

Name of conference/meeting: Cosa succede nei nostri mari: attività diagnostica sui mammiferi marini spiaggiati in Italia. Live Webinar SIDILV

Location and date: Live Webinar SIDILV 20 July 2023

Title: Potenziale suscettibilità dei cetacei spiaggiati lungo le coste italiane a SARS-CoV-2: risultati della sorveglianza nazionale e prospettive di ricerca

Authors: Audino

Name of conference/meeting: Cosa succede nei nostri mari: attività diagnostica sui mammiferi marini spiaggiati in Italia. Live Webinar SIDILV

Location and date: Live Webinar SIDILV 20 July 2023

Title: Framework diagnostico per la valutazione dell'interazione con la pesca

Authors: Grattarola C

Name of conference/meeting: Cosa succede nei nostri mari: attività diagnostica sui mammiferi marini spiaggiati in Italia. Live Webinar SIDILV

Location and date: Live Webinar SIDILV 20 July 2023

Title: Accertamenti post mortem su cetacei spiaggiati

Authors: Giorda

Name of conference/meeting: Workshop SIBM (Società Italiana Biologia Molecolare) "Tecniche e tecnologie per lo studio e il monitoraggio dei cetacei"

Location and date: 29 November 2023

Title: Paratuberculosis caprina en Canarias: valoración serológica en granjas con y sin vacunación frente a Mycobacterium avium subespecie paratuberculosis

Authors: Stefanova, EP, Paz-Sánchez, Y, Quesada-Canales, O, Espinosa de los Monteros, A., Fernández, A., Rivero, M., Andrada, M.

Type of participation: Poster Presentation

Name of conference/meeting: XXVI Edición del Simposio Nacional AVEDILA

Publication: Conference Proceedings

Location and date: Elche-Orihuela, Spain. 19th-21st November 2023

Title: Serología y estudio anatomopatológico para el diagnóstico de paratuberculosis caprina en infección natural

Authors: Stefanova, EP, Paz-Sánchez, Y, Quesada-Canales, O, Espinosa de los Monteros, A., Fernández, A., Rivero, M., Andrada, M.

Type of participation: *Poster Presentation*
Name of conference/meeting: *XXVI Edición del Simposio Nacional AVEDILA*
Publication: *Conference Proceedings*
Location and date: *Elche-Orihuela, Spain. 19th-21st November 2023*

Title: *Neumonías en caprinos con infección natural de paratuberculosis.*
Authors: *Stefanova, EP, Paz-Sánchez, Y, Quintana-Montesdeoca, M.P, Quesada-Canales, O, Espinosa de los Monteros, A., Fernández, A., Rivero, M., Pérez, V, Andrada, M.*
Type of participation: *Poster Presentation*
Name of conference/meeting: *XXXIV Reunión de la Sociedad Española de Anatomía Patológica Veterinaria (SEAPV)*
Publication: *Conference Proceedings*
Location and date: *Lugo, Spain. 7-9th June 2023*

Title: *Fortalecimiento de las Redes de Protección del Angelote: Incrementando el Conocimiento y Diagnóstico Veterinario de Mortalidades de Tiburones en Canarias*
Authors: *Castro Alonso, A., Caballero, M.J.*
Type of participation: *Oral presentation*
Name of conference/meeting: *IV Jornadas de la Red Nacional de Elasmobranchios*
Publication: *Conference Proceedings*
Location and date: *Valencia, Spain, 28th January – 29th January 2023.*

d) Other (Provide website address or link to appropriate information):

23

PhD Advisors: *Manuel Arbelo Hernández and Antonio J. Fernández Rodríguez*
Title: *Patologías y causas de la muerte de los cetáceos varados en las Islas Canarias 2013-2018*
Student: *Pablo José Díaz Santana*
Qualification: -
University: *Universidad de las Palmas de Gran Canaria*
Faculty: *Facultad de Veterinaria*
Date: *2023.*

PhD Advisors: *Antonio J. Fernández Rodríguez and Eva María Sierra Pulpillo*
Title: *Evaluación Sanitaria De Los Zifios En Canarias*
Student: *Idaira del Carmen Felipe Jiménez*
Qualification: -
University: *Universidad de las Palmas de Gran Canaria*
Faculty: *Facultad de Veterinaria*
Date: *2023.*

PhD Advisors: *Antonio J. Fernández Rodríguez, María José Caballero Cansino and Yara Bernaldo de Quirós.*
Title: *Comparative Study of Gas-Bubble Lesions Using Experimental Models.*
Student: *Alicia Sofía Velázquez Wallraf*
Qualification: *"Sobresaliente Cum Laude"*
University: *Universidad de las Palmas de Gran Canaria*
Faculty: *Facultad de Veterinaria*
Date: *2023.*

Title: *Taller Simulacro Varamiento de Cetáceos*
Authors: *Raquel Puig Lozano*
Type of participation: *Workshop*
Name of Event: *La Palma Blue Experience*
Organizer: *Cabildo de La Palma*
Location and date: *Santa Cruz de La Palma, Spain, 05th December 2023*

Title: *Deepening into the anatomy and physiology of cetacean*
Authors: *Yara Bernaldo de Quirós*
Type of participation: *Oral presentation*
Name of Event: *International River Dolphin Veterinary Assessment Workshop*
Organizer: *National Marine Mammal Foundation, Oceanogràfic Valencia, ULPGC*
Location and date: *Las Palmas de Gran Canaria, Spain, 18-20th December 2023*

Title: *Introduction to Veterinary Pathology*
Authors: *Antonio Fernández Rodríguez*
Type of participation: *Oral presentation*
Name of Event: *International River Dolphin Veterinary Assessment Workshop*
Organizer: *National Marine Mammal Foundation, Oceanogràfic Valencia, ULPGC*
Location and date: *Las Palmas de Gran Canaria, Spain, 18-20th December 2023*

Title: Overview of the Necropsy Protocol for cetaceans
Authors: Antonio Fernández Rodríguez
Type of participation: Oral presentation
Name of Event: International River Dolphin Veterinary Assessment Workshop
Organizer: National Marine Mammal Foundation, Oceanogràfic Valencia, ULPGC
Location and date: Las Palmas de Gran Canaria, Spain, 18-20th December 2023

Title: Practical Cetacean Necropsy (Session 1/Session 2)
Authors: Antonio Fernández Rodríguez
Type of participation: Practical Session
Name of Event: International River Dolphin Veterinary Assessment Workshop
Organizer: National Marine Mammal Foundation, Oceanogràfic Valencia, ULPGC
Location and date: Las Palmas de Gran Canaria, Spain, 18-20th December 2023

Title: Introduction to Cetacean Histology (Optic Microscopy Session)
Authors: Eva María Sierra Pulpillo
Type of participation: Oral presentation
Name of Event: International River Dolphin Veterinary Assessment Workshop
Organizer: National Marine Mammal Foundation, Oceanogràfic Valencia, ULPGC
Location and date: Las Palmas de Gran Canaria, Spain, 18-20th December 2023

Title: Visit to the molecular biology laboratory
Authors: Eva María Sierra Pulpillo
Type of participation: Scientific guided tours
Name of Event: International River Dolphin Veterinary Assessment Workshop
Organizer: National Marine Mammal Foundation, Oceanogràfic Valencia, ULPGC
Location and date: Las Palmas de Gran Canaria, Spain, 18-20th December 2023

Title: ¿Quieres conocer el significado de una sola salud (One Health) de la mano de investigador@s en sanidad animal?
Type of participation: Workshop
Name of Event: Semanas de la Ciencia y de la Innovación en Canarias 2023
Organizer: Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI)
Location and date: Las Palmas de Gran Canaria, Spain, 13rd-22nd November 2023

Title: One Health, visita a los vigilantes de la salud humana, animal y de los ecosistemas
Type of participation: Scientific guided tours
Name of Event: Semanas de la Ciencia y de la Innovación en Canarias 2023
Organizer: Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI)
Location and date: Las Palmas de Gran Canaria, Spain, 13rd-22nd November 2023

Title: Asistencia a cetáceos varados
Type of participation: Workshop
Name of Event: Semanas de la Ciencia y de la Innovación en Canarias 2023
Organizer: Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI)
Location and date: Las Palmas de Gran Canaria, Spain, 13rd-22nd November 2023

Title: Científic@s por un día, ¿quieres conocer cómo se hace un ELISA para diagnosticar la paratuberculosis en el ganado caprino?
Type of participation: Workshop
Name of Event: Semanas de la Ciencia y de la Innovación en Canarias 2023
Organizer: Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI)
Location and date: Las Palmas de Gran Canaria, Spain, 13rd-22nd November 2023

Title: ¿Conocemos con Trapichito, el microscopio ambulante, células del aparato respiratorio?
Type of participation: Workshop
Name of Event: Semanas de la Ciencia y de la Innovación en Canarias 2023
Organizer: Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI)
Location and date: Las Palmas de Gran Canaria, Spain, 13rd-22nd November 2023

Title: Atención a Cetáceos varados en Canarias
Authors: Manuel Arbelo Hernández
Type of participation: Oral presentation
Name of Event: Feria Internacional del Mar (FIMAR) 2023
Organizer: Feria de Gran Canaria (INFECAR) y Ciudad de Mar
Location and date: Las Palmas de Gran Canaria, Spain, 16th-18th June 2023

Title: IUSA: el CSI del Mar
Authors: Raquel Puig Lozano

Type of participation: Oral presentation

Name of Event: Feria Internacional del Mar (FIMAR) 2023

Organizer: Feria de Gran Canaria (INFECAR) y Ciudad de Mar

Location and date: Las Palmas de Gran Canaria, Spain, 16th-18th June 2023

Title: AGN-PROJECT Por la conservación y protección de tiburones y rayas

Authors: Ayoze Castro Alonso

Type of participation: Oral presentation

Name of Event: Feria Internacional del Mar (FIMAR) 2023

Organizer: Feria de Gran Canaria (INFECAR) y Ciudad de Mar

Location and date: Las Palmas de Gran Canaria, Spain, 16th-18th June 2023

Title: Novas tecnologias que contribuem para a saúde e conservação dos cetáceos

Type of participation: Oral presentation

Name of Event: Jornadas de Transferência de Conhecimento MARCET II: Oceanográficas

Organizer: MARCET II Project

Location and date: Madeira, Portugal, 11st-13rd April 2023

Title: Atenção aos arrojamentos de cetáceos

Type of participation: Oral presentation

Name of Event: Jornadas de Transferência de Conhecimento MARCET II: Sanitárias

Organizer: MARCET II Project

Location and date: Madeira, Portugal, 11st-13rd April 2023

Title: Recolha dados a partir de plataformas de oportunidade para o estudo de populações de cetáceos

Type of participation: Oral presentation

Name of Event: Jornadas de Transferência de Conhecimento MARCET II: Ecológicas

Organizer: MARCET II Project

Location and date: Madeira, Portugal, 11st-13rd April 2023

Title: Novas tecnologias que contribuem para a saúde e conservação dos cetáceos

Type of participation: Oral presentation

Name of Event: Jornadas de Transferência de Conhecimento MARCET II: Oceanográficas

Organizer: MARCET II Project

Location and date: São Miguel, Azores, Portugal, 24th-25th February 2023

Title: Biología y ecología de cetáceos do arquipélago dos açores

Type of participation: Oral presentation

Name of Event: Jornadas de Transferência de Conhecimento MARCET II: Ecológicas

Organizer: MARCET II Project

Location and date: São Miguel, Azores, Portugal, 24th-25th February 2023

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

- European College of Veterinary Pathology accreditation.
- Implementation of different laboratory procedures for the detection of cetacean diseases and pathogens (*Picornaviridae*, *Hepadnaviridae*, *Nasitrema*)

12. Additional comments regarding your report: