WOAH Collaborative Centre Reports Activities 2023
Activities in 2023
This report has been submitted : 7 juin 2024 11:22

Centre Information

<table>
<thead>
<tr>
<th>Title of WOAH Collaborating Centre</th>
<th>Health of Marine Mammals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address of WOAH Collaborating Centre</td>
<td>Istituto Zooprofilattico Sperimentale PLVA, via Bologna 148, 10154, Torino; Facultad de Veterinaria, IULPGC, Campus Universitario Cardones de Arucas, 35413 Arucas, Las Palmas-Spain</td>
</tr>
<tr>
<td>Tel:</td>
<td>+ 39 0112686261; +34 928454333</td>
</tr>
<tr>
<td>E-mail address:</td>
<td><a href="mailto:cristina.casalone@izsto.it">cristina.casalone@izsto.it</a>; <a href="mailto:credima@izsto.it">credima@izsto.it</a>; <a href="mailto:antonio.fernandez@ulpgc.es">antonio.fernandez@ulpgc.es</a></td>
</tr>
</tbody>
</table>

Website:

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 WOAH

<table>
<thead>
<tr>
<th>Category</th>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disease control (true)</td>
<td>1. Avian influenza in cetaceans 2. Emergent viral diseases in cetaceans: pathologic and molecular diagnostic 3. Cetaceans as One Health indicators</td>
<td>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</td>
</tr>
<tr>
<td>Epidemiology, surveillance, risk assessment, (true)</td>
<td>1. Phylo-geographic analysis of Brucella ceti strains in marine mammals of Italy (WGS) by WOAH 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</td>
<td>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 Andalucia, 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</td>
</tr>
</tbody>
</table>
## Training, capacity building (true)

<table>
<thead>
<tr>
<th>Procedures</th>
<th>Collaboration with the government for the development and implementation of appropriate stranding and necropsy protocols.</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>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 the European Cetacean Society meeting in April 2023. 5. Program dedicated to the training of veterinarians in the zoonotic diseases of wild animals</td>
</tr>
</tbody>
</table>

## 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)


## 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

<table>
<thead>
<tr>
<th>Proposal title</th>
<th>Scope/Content</th>
<th>Applicable area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syndromic Surveillance for UMEs</td>
<td>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)</td>
<td>health management</td>
</tr>
</tbody>
</table>

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

No

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

Yes

<table>
<thead>
<tr>
<th>Name of WOAH CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetaceans’ strandings Emergency Response Team (CERT) of the University of Padua, Italy</td>
<td>Padua, Italy</td>
<td>Europe</td>
<td>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.</td>
</tr>
<tr>
<td>Istituti Zooprofilattici Sperimentali diagnostic network (IIZZSS)</td>
<td>Italy</td>
<td>Europe</td>
<td>Coordination of diagnostic investigations and data collection on stranded marine mammals and by catch events recorded in Italy.</td>
</tr>
<tr>
<td>International Whaling Comission (IWC)</td>
<td>Impigton, Cambridge, UK</td>
<td>Europe</td>
<td>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</td>
</tr>
<tr>
<td>Cetaceans strandings Emergency Response Team of the University of Las Palmas de Gran Canaria</td>
<td>Las Palmas, Canary Islands</td>
<td>Europe</td>
<td>Response to the cases of cetacean strandings in the Canary Islands archipelago, performing the necropsy and managing the disposal of the carcass.</td>
</tr>
</tbody>
</table>

**TOR4 AND 5: NETWORKING AND COLLABORATION**

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

Yes

<table>
<thead>
<tr>
<th>Name of WOAH CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>WOAH Avian Influenza</td>
<td>Spain</td>
<td>Europe</td>
<td>Development of a guide for the detection of Avian Influenza in marine mammals</td>
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<tr>
<td>----------------------</td>
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<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>WOAH Brucella</td>
<td>Italy</td>
<td>Europe</td>
<td>Brucella cety Typing</td>
</tr>
<tr>
<td>WOAH BSE</td>
<td>Italy</td>
<td>Europe</td>
<td>Neuropathological investigations and diagnostic tools</td>
</tr>
<tr>
<td>WOAH scrapie</td>
<td>Italy</td>
<td>Europe</td>
<td>Neuropathological investigations and diagnostic tools</td>
</tr>
<tr>
<td>WOAH Coll. Centre Animal/Human interface</td>
<td>Italy</td>
<td>Europe</td>
<td>Diagnosis of zoonotic agents</td>
</tr>
</tbody>
</table>

**TOR6: EXPERT CONSULTANTS**

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

*Yes*

<table>
<thead>
<tr>
<th>NAME OF EXPERT</th>
<th>KIND OF CONSULTANCY</th>
<th>SUBJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antonio Fernández</td>
<td>Training</td>
<td>Necropsy and cetacean pathology theoretical and practical training. Servicio Nacional de Pesca y Acuicultura (SERNAPESCA), Chile</td>
</tr>
<tr>
<td>Paula Alonso Almorox</td>
<td>Collaboration</td>
<td>Sanitary control of marine mammals in the province of Chubut: emerging diseases, zoonosis and health/disease indicators.</td>
</tr>
<tr>
<td>Yara Bernaldo de Quirós</td>
<td>Training</td>
<td>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.</td>
</tr>
<tr>
<td>Carla Fiorito</td>
<td>Collaboration / training</td>
<td>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.</td>
</tr>
<tr>
<td>Paula Alonso Almorox</td>
<td>Research stay</td>
<td>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,</td>
</tr>
</tbody>
</table>
Raquel Puig Lozano
Research stay

- Health of Marine Mammals -


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

Temas de trabajo:
- C:
  - Theoretical and practical training in the necropsy procedure in cetaceans for the detection of avian influenza
  - Chile
  - 230

Torres: Scientific and Technical Training

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAH, to personnel from WOAH Members? Yes
   a) Technical visit: 0
   b) Seminars: 0
   c) Hands-on training courses: 230
   d) Internships (>1 month): 0

Torres: 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 WOAH? Yes

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

WOAH Collaborative Centre Reports Activities 2023
TOR9: DATA AND INFORMATION DISSEMINATION

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

a) Articles published in peer-reviewed journals:


Authors: Sambolino, A., Rodríguez, M., De la Fuente, J., Arbele, M., Fernández, A., Kaufmann, M., Cordeiro, N., Díaz, A.
Title: Optimization and validation of a micro-QuEChERS method for phthalates detection in small samples of cetacean blubber
Citations: 0
IF: 1.9

Title: Mass mortality event in South American sea lions (Otaria flavescens) correlated to highly pathogenic avian influenza (HPAI) H5N1 outbreak in Chile
Citations: 0
IF: 6.4 (Q1)

Authors: Segura-Góthlin, S., Fernández, A., Arbelo, M., Andrade, M., Felipe-Jiménez, I., Colom-Rivera, A., Fiorito, C., Sierra, E.
Title: Viral skin diseases in odontocete cetaceans: gross, histopathological, and molecular characterization of selected pathogens
Citations: 0
IF: 3.2 (Q1)

Authors: Lilaor-Garzón, J., Brito-Casillas, Y., Quesada-Canales, O., Wögner, 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/10.1038/s41477-022-00418-8
Citations: 0
IF: 3.8 (Q2)

Title: Advanced Technologies for Cetacean Monitoring: A One-Health and Multidisciplinary Approach for Ocean Effective Surveillance
Citations: 0
IF: 2.9 (Q1)

Title: Biomarkers related to gas embolism: Gas score, pathology, and gene expression in a gas bubble disease model
Citations: 0
IF: 3.7 (Q2)

Title: First skeletochronological analysis on loggerhead yearlings (Caretta caretta) in the Canary Islands
Citations: 0
IF: 2.4 (Q2)

Title: Cetacean Intracytoplasmic Eosinophilic Globules: A Cytomorphological, Histological, Histochemical, Immunohistochemical, and Proteomic Characterization
Citations: 0
IF: 3.0 (Q1)

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., Caballera, M. J., Quintana-Montesdeoca, M.D.P., Espinosa de Los Monteros, A., Rivera, M.A., Castra, A., Pérez, V., & Andrada, M.
Title: Morphological Assessment of Concomitant Lesions Detected in Goat Herds Naturally Infected with Paratuberculosis (Johne's Disease)
Citations: 0
IF: 3.0 (Q1)

Title: Ciguatoxin-like toxicity distribution in flesh of amberjack (Seriola spp.) and dusky grouper (Epinephelus marginatus)
Citations: 2
IF: 8.3 (Q1)

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
Citations: 0
IF: 3.7 (Q1)

Authors: Rodríguez, J., Santanta, A., Andrad, M., Herráez, P., Killick, D. R., & Espinosa de Las Montras, A.
Title: Epidemiology of canine cutaneous round cell tumours on the Canary archipelago in Spain
Journal: Veterinary and Comparative Oncology (2023); https://doi.org/10.1171/vca.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 nasitremiasis 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., Arbela, 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-Rivera, A., Navarro-Sarmiento, J., Segura-Gothlin, S., Castro-Alonso, A. & Quesada-Canales, O.
Title: Infection due to Buteo buteo herpesvirus in a common buzzard (Buteo buteo insularum)
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
Citations: 1
IF: 3.7 (Q1)

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)

Title: Genomics reveals the role of admixture in the evolution of structure among sperm whale populations within the Mediterranean Sea
Citations: 1
IF: 4.9 (Q1)
Authors: Meyer, G., Puig-Lazano, 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
Citations: 0
IF: 8.9 (Q1)

Title: Fish mortality associated to volcanic eruptions in the Canary Islands
Citations: 0
IF: 3.7 (Q1)
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: 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
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 Quirós, Y., Arregui, M., Fernández, A., Arbelo, M., Cámara, N., Consoli, F., Fáñez, A., Palomino-Schätzlein, M., Puig-Lozano, R., Rivera, 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
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
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-Góthlin, 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: Fusaro, 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 Quirós, 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-Gothlin, 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
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., Sannmartín, 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
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., Arbeloa, M., Andrade, M., Almunia, J., Felipe-Jiménez, I., Calam-Rivera, 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 al. Type of participation: poster presentation
Name of conference/meeting: Congresso Nazionale Società di Diagnostica di Laboratorio Veterinaria (SIDLVI)
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 (SIDLVI)
Publication: Conference Proceedings
Location and date: Brescia, 11-13 ottobre 2023
Title: Aggiornamento sull’attività diagnostica degli IIZZSS sui cetacei spiaggiati in Italia (2022–2023)
Authors: Giorda F
Type of participation: Oral presentation
Name of conference/meeting: Convegno Nazionale del Credima
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: 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: 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: Convegno Nazionale del Credima
Type of participation: Oral presentation
Location and date: Ancona 25-26 Ottobre 2024
Title: Attività svolte dal Credima e dalla Rete nazionale degli IIZZSS in Italia
Authors: Casalone
Name of conference/meeting: Convegno Nazionale del Credima
Type of participation: Oral presentation
Location and date: Ancona 25-26 Ottobre 2024
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 las Monteros, A., Fernández, A., Rivera, M., Andrado, M.
Type of participation: Poster Presentation
Name of conference/meeting: XXVI Edición del Simposio Nacional AVENTILAR
Publication: Conference Proceedings
Location and date: Elche-Orihuela, Spain. 19th-21st November 2023
Title: Serología y estudio anatomo patológico para el diagnóstico de paratuberculosis caprina en infección natural
Authors: Stefanova, EP, Paz-Sánchez, Y, Quesada-Canales, O, Espinosa de las Monteros, A., Fernández, A., Rivera, M., Andrado, M.
**Health of Marine Mammals**

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., Rivera, M., Pérez, V., Andrado, 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 Elasmobranquios  
Publication: Conference Proceedings  
Location and date: Valencia, Spain, 28th January – 29th January 2023.

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

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
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: