

OIE Collaborating Centres Reports Activities

Activities in 2018

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Title of collaborating centre:	Training, Epidemiology, Food Safety and Animal Welfare
Address of Collaborating Centre:	Via Campo Boario 64100 Teramo ITALY
Tel.:	+39 0861 33.22.05
Fax:	+39 0861 33.22.51
E-mail address:	g.migliorati@izs.it
Website:	www.izs.it
Name of Director of Institute (Responsible Official):	Dr. Nicola D'Alterio, Acting General Director
Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):	Dr Giacomo Migliorati - Head of Food Safety Department
Name of writer:	G. Migliorati, D. Morelli, P. Dalla Villa, B. Alessandrini

ToR: To provide services to the OIE, in particular within the region, in the designated specialty, in support of the implementation of OIE policies and, where required, seek for collaboration with OIE Reference Laboratories

ToR: To identify and maintain existing expertise, in particular within its region

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

Epidemiology, surveillance, risk assessment, modelling	
Title of activity	Scope
<p>OIE BT lab Net: Bluetongue reference laboratories network</p>	<p>The worldwide network of OIE Bluetongue Reference Laboratories has been instituted to improve the knowledge of bluetongue epidemiological situation and to facilitate international trade of live ruminants. OIE-CC-IZSAM has performed the following activities:</p> <ul style="list-style-type: none"> • exchange of diagnostic materials, with emphasis on harmonization, standardization and validation of laboratory tests; • assistance to the national reference laboratories with regard to the diagnosis of BT and identification of carriers; <p>collection, analysis and dissemination of epidemiological information.</p>

<p>Anhiwa (EpiRisk) - Integrated epidemiological models for risk-based surveillance approaches.</p>	<p>This project aims to develop scientific methods for the assessment of main risk factors influencing the diseases occurrence and spread, to properly facilitate the design and implementation of risk-based surveillance activities. A Consortium of Institutes from 4 countries, with extended experience in epidemiology, statistics, mathematics, GIS, modelling and veterinary field investigations, will develop</p> <p>an integrated decision tool, based on different epidemiological modelling approaches and risk assessment techniques, for the design of cost-effective, risk-based surveillance systems</p>
<p>Anhiwa Project (ERA-Net) - Epidemiological models for control of arboviral disease for Europe (ARBONET).</p>	<p>The project has the following specific objectives: 1) to develop epidemiological models of possible scenarios of vectorborne infections spread in Europe, evaluating possible risk-based surveillance approaches and control strategies, 2) to promote epidemiological studies on distribution of viral genetic subpopulations, 3) to increase the knowledge of virus-vector and virus-vertebrate host interactions, and 4) to support dissemination of knowledge on the epidemiology, surveillance and control of these diseases.</p>
<p>PALE-Blu Project: Understanding pathogen, livestock, environment interactions involving bluetongue virus.</p>	<p>PALE-Blu project is investigating the interactions between bluetongue virus, its ruminant hosts and insect vectors that are relevant to the European ecosystem. The project is focused on genetic and environmental factors that can influence virus replication and transmission, and therefore the incidence, spread and control of different BTV strains in different regions. It also explores the basis for improved control strategies, including better models of disease spread, better diagnostic assays, antivirals and vaccines.</p>
<p>Project EFSA "VectorNet: A European network for sharing data on the geographic distribution of arthropod vectors, transmitting human and animal disease agents." (VECTOR-NET).</p>	<p>The project supports the collection of data on vectors and pathogens in vectors, related to both animal and human health.</p>
<p>Progetto EJP UEH2020118G OneHealth COHESIVE - Promoting One Health in Europe through joint actions on foodborne zoonoses, antimicrobial resistance and emerging microbiological hazards.</p>	<p>The project aims at stimulating sustainable One Health approaches at the national level within EU countries, building a roadmap towards zoonoses risk-assessment structure, designing and testing a common platform for the collection and analysis of surveillance and outbreak data</p> <p>on foodborne zoonoses. In the framework of the project IZSAM is dealing with the establishment of a data platform to facilitate risk analysis and outbreak control.</p>
<p>Twinning OIE OIETWAUH116 - "OIE reference network of Istituti Zooprofilattici Sperimentali (IIZZSS) in Italy and the Abu Dhabi Food control Authority (ADFCA), UAE for the establishment and development of an OIE Collaborating Centre on camel diseases"</p>	<p>In the framework of the project the OIE-CC-IZSAM has performed a specific training on epidemiological surveillance and risk assessment and it is supporting the ADFCA in designing a multi-national survey on camel brucellosis.</p>

<p>MediLabSecure</p>	<p>The MediLabSecure project aims at consolidating a Laboratory Network on the emerging viruses that are pathogens for humans and/or animals.</p> <p>The MediLabSecure (http://www.medilabsecure.com/) initiative aims at strengthening One Health implementation for the prevention and control of arbovirus infections in the Mediterranean and Sahel Regions through the coordination and collaboration between human and veterinary public health officers.</p>
<p>eLearning course on Geographic Information System (GIS) in the veterinary field</p>	<p>The increasing growth and use of GIS facilitated the development and application of spatial analysis in the field of veterinary activities and strongly contributed to the development of sophisticated tools for the implementation of surveillance systems. GIS application in public health facilitates the measurement of communities health parameters and, on the basis of the information scientifically collected, makes it possible to consider possible interventions.</p> <p>This activity involves the following technical area: epidemiology and statistics.</p>
<p>Training, capacity building</p>	
<p>Title of activity</p>	<p>Scope</p>
<p>Provision of modules for eLearning training courses under the "Better Training for Safer Food" initiative</p>	<p>OIE-CC-IZSAM has been entrusted with the provision of 10 eLearning modules devoted to official veterinarians and other professionals of the National Competent Authorities of Member States, Candidate and third Countries in the framework of 2 projects funded under the "Better Training for Safer Food" initiative.</p> <p>This activity involves also the following technical areas: disease control, food safety, animal welfare, feed safety, aquatic animal diseases.</p>
<p>ZOE - ZoonosesOnlineEducation - Online courses with videos for the field of veterinary communication dealing with prevention, diagnosis and treatment of diseases transferable from animals to humans</p>	<p>The EU Erasmus + project aims to create open digital educational resources in the field of veterinary medicine based on developing innovative guidelines on zoonotic diseases study and veterinary, medical, pedagogical, linguistic and raise awareness intervention related to identify, monitor and control malaria and dirofilaria, useful for the academic, professional and general beneficiaries</p>
<p>Harmonisation & Recognition of LAS education and training in Member States - HERMES</p>	<p>The EU Erasmus + project "HERMES" aims to contribute to the harmonisation and mutual recognition of Laboratory Animal Science (LAS) Education & Training (E&T) in the EU Member States, facilitating professional mobility and increasing the protection animals used for scientific purposes.</p> <p>The The project intends to provide a possible solution to the fragmentation of the LAS E&T system designing, testing, validating, and promoting a new model to plan and manage education and training on LAS in Europe.</p>

Learning GenOmics for food safety (LEGO)	The EU Erasmus + project LEGO aims to define, train and promote the recognition in Europe of a new professional profile at the crossroad between different disciplines, the Food Microbial Bioinformatician, in order to address contemporary societal needs for a Better and Safer Food and meet labour market demands
Animal welfare	
Title of activity	Scope
OIE twinning project on “Capacity building on Animal Welfare in South Africa to improve compliance with OIE Standards in the Region	The Twinning project has been implemented, with the main goal of improving the technical knowledge and skills of FVS staff, and support the Candidate Institute in the process that will eventually lead to acquire the status of OIE Collaborating Centre for Animal Welfare. Within the framework of this project, the FVS was asked to provide scientific support to other centers or institutions in the neighboring countries of the SADC region. The FVS personnel has been trained by the OIECC experts in the following areas: <ul style="list-style-type: none"> •Animal welfare and human-animal relationship; •OIE TAHC standards on animal welfare(slaughter and transport of animals by land and stray dog population control)and related EU legislation; •Drafting of animal welfare legislation in accordance with the OIE standards.
Standardisation of data collected in different EU Member States about broiler welfare (iMBData project)	The key aims of iMBData project are to use data on broiler welfare already being routinely collected across the EU in order to create a software tool to be tested on farm, during transport and slaughter of broiler chickens. The iMBData system will allow producers and officials to obtain updated information on factors affecting the health and welfare of broiler flocks, to improve flock performance and efficiency by better managing health and welfare.
Sustainable Techniques for reducing the Abundance of Stray Dogs (STRAYS) project	The University of Leeds UK, IZSAM Italy and VIER PFOTEN International are conducting a study on the stray dog populations in Europe and internationally. Stray dog overpopulation is a global problem which is of public health, animal welfare and environmental concern. The STRAYS project has been developed to determine the most sustainable, effective and efficient method of controlling the number of stray dogs by comparing different approaches to stray dog population control.
Development of a cat management system for Flemish cities and communities	Many European cities and communities are facing public health and animal welfare issues determined by a growing number of stray cats and have developed a policy to control these animals in a sustainable manner. The purpose of this project, funded by the Flemish Government and leaded by the University of Ghent in collaboration with the IZSAM, is to develop a cost-benefit model for the sustainability (societal acceptance, environmental impact and economic burden) of different cat population management approaches at local level.

Management of veterinary activities during non-epidemic emergencies	<p>On the occasion of non-epidemic emergencies, web-GIS based Information Systems are recognized as fundamental operational tools that guarantee a coherent and harmonized data collection on the main criticalities assessed by Veterinary Services at farm, food establishments and feed industries level. Following to the experience gained in the occasion of non-epidemic emergencies that repeatedly occurred in Italy, the Italian MoH has funded a research project for the creation of a new Veterinary Information System for Non-Epidemic Emergencies (SIVENE). The innovations introduced in the new SIVENE currently allow:</p> <ul style="list-style-type: none"> •the use of the application on mobile devices (tablets and smartphones) •the possibility of dynamically generating inspection check-lists defined during emergencies •a natural integration with a web-GIS application
EU DG SANTE pilot project on Animal Transport Guides	<p>Aim of this EU DG SANTE pilot project - carried out in partnership with 16 European research institutions and stakeholders - is to support the industry to improve animal welfare, through the development of Guides to Good Practice for animal transport. The project is articulated into four main phases: collection and collation of appropriate good/best practices implemented and supported by scientific evidence; development of practical guidelines for cattle, pigs, horses, sheep and poultry; dissemination of these guidelines through the networks of the main European stakeholder groups involved; verification of whether these new transport guidelines reached the end-users</p>
Food safety	
Title of activity	Scope
Determination of Salmonella prevalence in slaughtered chicken carcasses in Zambia	A collaboration agreement between Central Veterinary Laboratory and IZSAM to check the prevalence of Salmonella at slaughterhouses
OIE Twinning between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Republican Veterinary Laboratory of Azerbaijan	The project aims to improve technical knowledge and skills of RVL staff, to enable RVL to become a reference laboratory for food safety and eventually to acquire OIE Collaborating Centre status.
Determination of Listeria monocytogenes prevalence in Ready to eat food in Namibia	A collaboration agreement between Central Veterinary Laboratory and IZSAM to check the prevalence of L. monocytogenes in food at national level
Med-Vet European Joint Program (EJP) Project LISTADAPT (Adaptive traits of Listeria monocytogenes to its diverse ecological niches)	The project "Listdapat" aims to decipher genes and molecular mechanisms that underlie adaptation of Lm to its different ecological niches. This project will enhance our basic understanding and allow application of new knowledge to control the risks related to Lm and to improve food safety.
Med-Vet European Joint Program (EJP) Project NOVA (Novel approaches for design and evaluation of cost-effective surveillance across the food)	The project NOVA strives to develop new surveillance tools and methods and to harmonise and optimise the use of existing surveillance system data to prevent foodborne outbreaks. The project group consist of a network of 19 Med and Vet institutions from 10 European countries

Med-Vet European Joint Program (EJP) Project MedVetKlebs (Klebsiella pneumoniae: from ecology to source attribution and transmission control)	It is a multidisciplinary international project that aims at defining the ecology of Klebsiella pneumoniae (Kp) and the sources of infections of humans and animals in order to investigate transmission routes and to find an optimal way to control them.
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ToR : To propose or develop methods and procedures that facilitate harmonisation of international standards and guidelines applicable to the designated specialty

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the surveillance and control of animal diseases, food safety or animal welfare

Proposal title	Scope/Content	Applicable area
OIE Regional Platform on Animal Welfare for Europe/ OIE Regional Platform on Animal Welfare for Middle East	Experts from the OIE-CC-IZSAM contributed to implement the activities designed in the Platform action plan 2017-2019 after the previous three year action plan, providing their expertise to address the established priorities	<input type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare
Development of guidelines of the European Reference Laboratory for Listeria monocytogenes	Participation in EURL Lm working groups for 1) the development of the draft amendment 1 of the EURL Lm Technical Guidance Document for conducting shelf-life studies on Listeria monocytogenes in RTE: changes of the temperature to conduct the studies; 2) the development of a new version of European guidelines to evaluate the competence of laboratories implementing challenge tests on the growth potential of Listeria monocytogenes in ready-to-eat foods. 3) setting up of a training tool for training of the competent authorities involved in the evaluation of challenge tests.	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input checked="" type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare
The SHELTER QUALITY Protocol and for Android and iOS	Two research projects funded by the Italian Ministry of Health, the "Shelter Quality protocol" for the assessment of dog welfare in long term shelters have been developed and validated. An application for Android and iOS operating system devices was developed and integrated with Shelter Quality protocol scoring system, allowing to collect AW data on field both on on-line and off-line mode.	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare
Contribution to the activities of the European Commission on Food Safety	Two experts of the OIE-CC-IZSAM have been members of the DG SANTE WG on "Microbiological Criteria". The aim of the WG is to discuss and propose rules to be set or modified in the framework of the EU legislation on microbiological criteria in foodstuffs. Main issues discussed during 2018 were: amendment of the document conducting shelf-life studies on Listeria monocytogenes, Bacteriophages, Salmonella, presentation of the new version of the guideline for evaluation of the competence of laboratories performing challenge tests, microbiology sampling method	<input type="checkbox"/> Surveillance and control of animal diseases <input checked="" type="checkbox"/> Food safety <input type="checkbox"/> Animal welfare

ToR: To establish and maintain a network with other OIE Collaborating Centres designated for the same specialty, and should the need arise, with Collaborating Centres in other disciplines

ToR: To carry out and/or coordinate scientific and technical studies in collaboration with other centres, laboratories or organisations

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

Yes

Name of OIE CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
OIE CC on Reduction of the Risk of Disasters in Animal Health, Centro Nacional de Sanidad, Agropecuaria, (CENSA), CUBA	San José de las Lajas	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East	Development of guidelines and risk-based approaches in disasters
University of California, Davis, USA	Davis, USA	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East	Epidemiological activities - Agreement
VIER PFOTEN International	Austria	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	Study on the sustainability of the CNR approach to stray dog control
Universit of Ghent Odisee Ogheschool	Belgium	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	Development of a cat management system for the Flemish cities and communities - Collaboration agreement
Campania Region Reference Centre on Non-Epidemic Veterinary Emergencies (CeRVENE)	Italy	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	Non-Epidemic Veterinary Emergencies

European Reference Laboratories for <i>Listeria monocytogenes</i>	France	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	1) Genomic studies on <i>L. monocytogenes</i> CC7 strains and non haemolytic strains; 2) TLC meeting with ECDC, EFSA e EURL Lm on multicountry listeriosis outbreak due to frozen corn. 3) Urgent inquiries related to multicountries outbreak of Listeriosis
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4. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of OIE CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
OIE CC University of Pretoria, National Central Veterinary Laboratories, and some Faculties of Veterinary Science of other African countries: Angola, Mozambique, Namibia, Tanzania, Zambia and Zimbabwe	Pretoria, South Africa	<input checked="" type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East	ERFAN is a network to facilitate and strengthen collaboration among countries of the SADC Region and Arab Maghreb Union (UMA) as well as IZSAM in the Animal health and food security domains. Its main task is to allow the Parental Laboratory to continue to support the Candidate Laboratory once the OIE Twinning Project is concluded, and the aims are to tackle some issues, as Efficiency of "Regional Pole of excellence" and Sustainability post OIE Twinning Project.
FAO Technical Working Group (TWG)	FAO, Rome	<input checked="" type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input checked="" type="checkbox"/> Middle East	Revision of the FAO Guide on Good Emergency Management Practice (GEMP Essentials)

ToR: To place expert consultants at the disposal of the OIE.

5. Did your Collaborating Centre place expert consultants at the disposal of the OIE?

Yes

Name of expert	Kind of consultancy	Subject
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Silvia D'Albenzio, Paolo Dalla Villa	Expertise on animal welfare, epidemiology, risk analysis, training and knowledge management	Tenth Meeting of the Steering Group (SG10) of the OIE Platform on AW in Europe, Berlin, 3-4 May 2018
Paolo Dalla Villa, Luigi Iannetti, Barbara Alessandrini	Expertise on training and knowledge management	Participation in the activities foreseen in the framework of the OIE TW project on AW with the University of Pretoria., Pretoria, 9-13 April, 2018; Teramo, 9- 13 July, 2018; Pretoria, 13-14 November, 2018 (Final Meeting)
Barbara Alessandrini, Silvia D'Albenzio, Annamaria Conte, Diana Palma, Paolo Dalla Villa	Expertise on training and knowledge management	Participation in the First OIE regional workshop on the role of Veterinary Services on animal welfare in natural disasters for Balkan countries, 26-28 November 2018, Teramo, Italy
Paolo Dalla Villa	Expertise on emergency management	Informal Side Meeting on "Strengthening Cooperation and Capacity for Emergency Management" - OIE General Session, 22 May 2018, Paris
Paolo Dalla Villa	Expertise on animal welfare	OIE Animal Welfare Global Forum "Supporting implementation of OIE Standards" Paris, 28-29 March 2018
Paolo Dalla Villa	Expertise on emergency management	Informal meeting on 'OIE network on veterinary emergencies" between the OIE CCs on Reduction of the Risk of Disasters in Animal Health (CENSA, Cuba), Veterinary Training, Epidemiology, Food Safety and Animal Welfare (Teramo, Italy) and Biological Threat Reduction (IIAD, Texas A and M, USA); Teramo, 26-27 November 2018

ToR: To provide, within the designated specialty, scientific and technical training to personnel from OIE Member Countries

6. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by the OIE, to personnel from OIE Member Countries?

Yes

- a) Technical visits: 64
- b) Seminars: 170
- c) Hands-on training courses: 1649
- d) Internships (>1 month): 2

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
a	Technical visit on USUTU virus serological assays, Teramo, 15-28 January 2018	Tunisia	1

a	<p>Technical visit in the framework of the joint project SILABFA between IZSAM and National Animal Health Diagnostic and Investigation Centre (NAHDIC) of Ethiopia</p> <p>Teramo, 6 Feb - 2 March 2018</p>	Ethiopia	1
d	<p>Technical visit in the framework of the joint project SILABFA between IZSAM and National Animal Health Diagnostic and Investigation Centre (NAHDIC) of Ethiopia</p> <p>Teramo, 6 Feb - 30 March 2018</p>	Ethiopia	1
a	<p>Technical visit in the framework of the FAO project on "provision of laboratory management of samples systems", Teramo, 4-29 June 2018</p>	Kenia, Tanzania	4
a	<p>Technical visit in the framework of the training course on "Food safety hazards cleaning and disinfection" Teramo, 31 January 2018</p>	Jordan	22
a	<p>Technical visit of representatives from RAZI Institute of Teheran at OIE Reference laboratories</p> <p>Teramo, 15-16 March 2018</p>	Iran	4
a	<p>Technical visit on entomology of representatives from Veterinary Specialised Institute Kraljevo</p> <p>Teramo, 12-14 March 2018</p>	Serbia	2
a	<p>Technical visit of Phd candidates from the Department of tropical diseases of the Faculty of Veterinary Sciences of the University of Pretoria</p> <p>Teramo, 9-20 July 2018</p>	South Africa	2
a	<p>Technical visit on molecular biology and omics of an expert from the Institut de la Recherché Veterinaire de Tunisie (IRVT)</p> <p>Teramo, 18-20 July 2018</p>	Tunisia	1
a	<p>Technical visit of representatives of Universities and Central labs of Georgia, Moldavia and Ukraine in the framework of the Erasmus+ project "Improving skills in laboratory practices for agri-food specialists in Eastern Europe"</p> <p>Teramo, 13 April 2018</p>	Georgia, Moldavia, Ukraine	9

a	Visit of the Director and the Vice-Director of the State Food and Veterinary Services of Lithuania Teramo, 15 June 2018	Lithuania	2
a	Visit of the Tunisian CVO in the framework of Réseau Méditerranéen de Santé Animale (REMESA) Teramo, 31 Jan - 1 Feb 2018	Tunisia	1
a	Training activity in Quality Management System within the OIE Twinning between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Republican Veterinary Laboratory of Azerbaijan. Teramo, 12-16 March, 2018	Azerbaijan	4
a	Training activity in Food Safety within OIE Twinning between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Republican Veterinary Laboratory of Azerbaijan. Teramo, 9-13 April, 2018	Azerbaijan	5
a	Training activities as foreseen within the OIE Twinning project for Blue Tongue between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Instituto Biologico of Sao Paulo (Brazil). Teramo, 4 - 15 June, 2018 - 5 - 16 November, 2018	Brazil	2
a	Training activities as foreseen within the OIE Twinning project on the establishment of OIE collaborating centre on camel diseases in Abu Dhabi-UAE between the OIE reference network of Istituti Zooprofilattici Sperimentali and the Abu-Dhabi Food Control Authority/Animal Health Centre for Diagnostic and Research in Abu Dhabi (United Arab Emirates) Teramo, 25 June - 6 July 2018	United Arab Emirates	2
b	Strengthening ERFAN through the support of OIE Reference Laboratories/Collaboration Centres in the AMU Region. Tunis, 3 - 4 May, 2018	Various African Countries	24
b	Networking and Building Relationships to strengthen the scientific and research capacity in the SADC Region. Pretoria, 14-16 November, 2018	Various African Countries	43
b	Short-term joint staff training event Project ERASMUS +Harmonisation & Recognition of LAS education and training in Member States (HERMES). Murcia, 11-13 December 2018	Italy, Sweden, Spain, Belgium, Greece	16

b	2nd Transnational Meeting Project ERASMUS Harmonisation & Recognition of LAS education and training in Member States (HERMES). Brussels, 22 May, 2018	Italy, Sweden, Spain, Belgium, Greece	12
c	Animal welfare during transport - basic level" (BTSF initiative). Poznan (Polonia), 15-18 May, 2018	Member States	30
c	Animal welfare in pig production (BTSF initiative). Malmo (Sweden), 5-8 June, 2018	Member States	31
c	Animal welfare at poultry slaughter (BTSF initiative). Hannover, 2-5 October, 2018	Member States	31
c	Animal welfare at slaughter and in case of killing for depopulation purposes (basic level) (BTSF initiative). Thessaloniki, 22-25 October, 2018	Member States	29
c	Animal welfare in poultry production (chickens kept for meat production) (BTSF initiative). Malmo, 13-16 November, 2018	Member States	30
c (eLearning)	eLearning courses on Animal Welfare at slaughter and killing for disease control, Animal Welfare at slaughter and killing for disease control for poultry, Prevention, Eradication and Control of Transmissible Spongiform Encephalopathies, Principle of Hazard Analysis and Critical Control Point audits (HACCP), Rapid Alert System for Food and Feed (RASFF), Food Contact Materials rules (FCM), Animal nutrition, Animal health prevention and controls for Aquaculture animals, EU plant quarantine regime for imports, Food hygiene and control on fishery products and live bivalve molluscs. Geographic Information System (GIS) in the veterinary field	Various countries	1498
a	Training activities as foreseen within OIE twinning Project on Animal Welfare between IZSAM and the Faculty of Veterinary Science, University of Pretoria. Teramo, 9-13 July, 2018	South Africa	2
b	Final Meeting of the OIE twinning Project on Animal Welfare between IZSAM and the Faculty of Veterinary Science, University of Pretoria. Pretoria, 13-14 November, 2018	South Africa	25
b	Kick off meeting and preliminary assessment of the OIE Twinning between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Republican Veterinary Laboratory of Azerbaijan. Baku, 5-8 February, 2018	Azerbaijan	50
d	Internship in the framework of the The European Food Risk Assessment Fellowship Programme	Romania	1

ToR: To organise and participate in scientific meetings and other activities on behalf of the OIE

7. Did your Collaborating Centre organise or participate in the organisation of scientific meetings on behalf of the OIE?

Yes

National/International	Title of event	Co-organiser	Date (mm/yy)	Location	No. Participants
International	First OIE regional workshop on the role of Veterinary Services on animal welfare in natural disasters for Balkan countries	-	26-28 November, 2018	Teramo, Italy	25

ToR: To collect, process, analyse, publish and disseminate data and information relevant to the designated specialty

8. Publication and dissemination of any information within the remit of the mandate given by the OIE that may be useful to Member Countries of the OIE

a) Articles published in peer-reviewed journals: 35

Vhoko K., Iannetti S., Burumu J., Ippoliti C., Bhebhe B., De Massis F. 2018. Estimating the prevalence of Brucellosis in cattle in Zimbabwe from samples submitted to the Central Veterinary Laboratory between 2010 and 2014. *Veterinaria Italiana*, 54(1), 21-27. <https://doi.org/10.12834/VetIt.1111.6191.2>

Perugini M., Tulini S.M.R., Zezza D., Fenucci S., Conte A., Amorena M. 2018. Occurrence of agrochemical residues in beeswax samples collected in Italy during 2013-2015. *Science of the Total Environment*, 625, 470-476.

Diletti G. et al. 2018. Intake estimates of dioxins and dioxin-like polychlorobiphenyls in the Italian general population from the 2013-2016 results of official monitoring plans on food. *Science of The Total Environment*. Volume 627, 15 June 2018, Pages 11-19. <https://doi.org/10.1016/j.scitotenv.2018.01.181>

Savini L. et al. 2018. A Web Geographic Information System to share data and explorative analysis tools: The application to West Nile disease in the Mediterranean basin. *PLoS ONE* 13(6): e0196429. <https://doi.org/10.1371/journal.pone.0196429>.

Pérez G.E., Conte A., Garde E.J., Messori S., Vanderstichel R., Serpell J. 2018. Movement and home range of owned free-roaming male dogs in Puerto Natales, Chile. *Applied Animal Behaviour Science*, 205 (2018), 74-82. <https://doi.org/10.1016/j.applanim.2018.05.022>

Artois J. Et al. 2018. Avian influenza A (H5N1) outbreaks in different poultry farm types in Egypt: the effect of vaccination, closing status and farm size. *BMC Veterinary Research*, 14, 187. <http://doi.org/10.1186/s12917-018-1519-8>

Darbon A. et al. 2018. Network-based assessment of the vulnerability of Italian regions to bovine brucellosis. *Preventive Veterinary Medicine*, 158, 25-34. <https://doi.org/10.1016/j.prevetmed.2018.07.004>

Tucci P., Sperandii A.F., Salini R., Centorotola G., Neri D., Iannetti L., Migliorati G., Pomilio F. 2018. A new procedure for surface contamination of food products using absorbent paper. *J Food Saf.* 2018;e12461.

<https://doi.org/10.1111/jfs.12461>

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