

WOAH Collaborative Centre Reports Activities 2023

Activities in 2023

This report has been submitted : 26 juin 2024 16:16

Centre Information

Title of WOA Collaborating Centre	Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health - PANAFTOSA/VPH
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Name Director of Institute (Responsible Official):	Ottorino Cosivi
Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Ottorino Cosivi, Director of the Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health - PANAFTOSA/VPH
Name of the writer:	Alexandre Moraes Leite

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-Sustainability of the FMD free status in countries of the Region 2-Restoration of the FMD control program in Venezuela 3-Facilitating the creation of a Regional Antigen/vaccine bank for FMD (BANVACO) 4-Chairing the Global Coordination Committee on FMD (GCC-FMD) 5-Field Simulation for Foot and Mouth Disease Emergency	1-PANAFTOSA has provided technical cooperation to Brazil, Colombia, Bolivia, Paraguay, and Ecuador to support the country FMD programs, assisting the countries in maintaining their status of FMD free. 2-PANAFTOSA provided technical cooperation to INSAI and Funvessa. The Centre provided the technical cooperation with the main objective of enhancing the vaccination strategy of the country and to give continuity and effectiveness to the FMD program. 3-PANAFTOSA is working very close with the countries of the Region to kick off the launching of BANVACO; an essential strategy for the prevention and control of potential incursions of FMD in the Region. With Paraguay and Ecuador already officially on board in the initiative and other countries already demonstrating their interest, during 2023 the Centre implemented several activities contribute to defining the way of work and scope of BANVACO. 4-With a key role of PANAFTOSA as chair, the GCC-FMD started in 2021. The main objectives are sharing experiences and lessons learned, facilitate coordination and alignment of regional FMD control initiatives, and to develop a harmonized 5-year global FMD action plan for the last

		<p>phase of the FMD Global Strategy for final endorsement by the GF-TADS. During 2023 the GCC has work to define the priorities and the action plan. 5- PANAFTOSA provided field simulation for FMD emergency in Ecuador.</p>
<p>Epidemiology, surveillance, risk assessment, (true)</p>	<p>1-Support to countries in the design and implementation of epidemiological studies for FMD. 2-Support to countries in the implementation of transmission models to simulate foot-and-mouth disease epidemics and the implementation of control actions. 3- Strengthen the analytical capacity of official veterinary services in epidemiology and risk analysis.</p>	<p>1-PANAFTOSA/PAHO provided technical cooperation to COL, ECU and BOL in the design of FMD NSP and SP studies to detect/rule out FMDv transmission and to evaluate the post vaccination immunity. 2- PANAFTOSA/PAHO provided technical cooperation to BOL to implementation of transmission model to simulate foot-and-mouth disease epidemics and the implementation of control actions. PANAFTOSA/PAHO provided capacity building training on modeling tools for the introduction and dissemination of FMD in countries (ARG, BOL, BRA, ECU, PRY, URY). 3-PANAFTOSA/PAHO provided geographic information systems (GIS) courses for the official veterinary services of ECU and BOL, to strengthen their capacities in epidemiology and contributing to the tasks of surveillance, control, and prevention of diseases, and risk analysis.</p>
	<p>1-World Rabies Day 2022 2-REDIPRA Network 3- Paralytic rabies transmitted by hematophagous bats to livestock 4-RELAPA Network consolidation</p>	<p>1-PANAFTOSA/PAHO has worked on rabies awareness with the countries of the region during the World Rabies Day 2023: https://www.paho.org/es/campanas/dia-mundial-contra-rabia-2023 2-Within the framework of the Americas Region's Network of National Rabies Control Programs Directors (REDIPRA), PANAFTOSA/PAHO has coordinated and organized the 17th RDIPRA, in Bogotá, Colombia, with the national rabies program from both public health and agriculture from 27 countries of the region. During the meeting it was approved the updated regional plan for canine rabies elimination, and the regional program for livestock rabies was discussed and the countries had committed to follow up. https://www.paho.org/en/panaftosa/redipra/redipra-17 3-Assessment of regional situation based on the self-evaluation tool of SIRVERA, in accordance with the regional program for the control of livestock rabies transmitted by hematophagous bat. 4-This network is responsible for sharing experiences, articulating among National laboratories producers of antivenom and promoting training and exchange of experiences in GMP practices (check section 8). 5-PANAFTOSA jointly with RELAPA laboratories continued the project to evaluate the neutralization capacity of the antivenom serums produced in the region of the Americas. 6-Virtual Training for public health agents, on epidemiology, diagnosis, control and prevention, prophylaxis and future perspectives upon the diseases: https://campus.paho.org/es/curso/profilaxis-rabia 7- PANAFTOSA/PAHO has provided direct technical cooperation to several countries of the region, such as COL and MEX, regarding the surveillance and control of human and animal brucellosis, promoting and participating in some virtual meetings, seminars and courses. 8-PANAFTOSA/PAHO has been working with the Instituto Colombiano Agropecuario (ICA) to develop and implement a comprehensive approach for the surveillance and control of bovine brucellosis. Several meeting to discuss surveillance and control programmes in place have taken place during 2023 and a national study to understand the epidemiological situation of the diseases is currently</p>

<p>Zoonoses (true)</p>	<p>5-Antivenom neutralization capacity project 6- Rabies Prophylaxis Virtual Training 7- Comprehensive approach for the surveillance, control and prevention of brucellosis 8- Surveillance and control of bovine brucellosis in Colombia. 9-Elimination of taeniasis/cysticercosis in the Americas 10-Bovine taeniasis/cysticercosis 11-Elimination of fasciolosis in the Americas 12-Zoonosis regional and international initiatives 13- Tungiasis 14-Provision of canine and human rabies immunobiologicals 15-Monitoring of the outbreak of Western equine encephalitis in Southern Cone</p>	<p>under implementation. 9-PANAFTOSA is collaborating with PAHO/CDE in the Regional Program for the Elimination of taeniasis/cysticercosis complex (Taenia solium) in the Americas, particularly regarding the implementation of control actions (treatment and vaccination) in pig populations. During 2023, PANAFTOSA was specifically involved in the organizations of a workshop in Peru with the participations of different stakeholders. 10- PANAFTOSA has collaborated, with state and national authorities, in the next steps of the project in the State of Mato Grosso do Sul, Brazil, a project to analyse risk factors associated with the occurrence of the disease in bovine herds. 11-PANAFTOSA is collaborating with PAHO/CDE in the Regional Program for the Elimination of fasciolosis in Americas, particularly regarding the implementation of control actions in animal populations. During 2023, PANAFTOSA was specifically involved in the organizations of a workshop in Peru with the participations of different stakeholders. 12-PANAFTOSA/PAHO has been involved/participating in several zoonosis-related regional and international initiatives, such as the "Preventing Zoonotic Disease Emergence (PREZODE)", the "Zoonotic Disease Integrated Action (ZODIAC)", the "One Sustainable Health for all Foundation" (OSH), etc. 13-PANAFTOSA, in collaboration with the unit of Neglected, Tropical and Vector-borne Diseases of the Department of Communicable Diseases, Prevention, Control, and Elimination had published the document "Experiencias en la vigilancia, la prevención, la atención y el control de la tungiasis en Brasil y Colombia". https://iris.paho.org/handle/10665.2/58686 14-PANAFTOSA is responsible for the technical analysis of all canine and human rabies immunobiological provided to the countries of the Region of the Americas by the PAHO Revolving Fund in support to the national rabies programs, including canine rabies vaccine doses for dog mass vaccination programs; immunoglobulin for PEP; and human rabies vaccine doses for PEP and PrEP. 15-Monitoring of the outbreak of Western equine encephalitis that hit Argentina, Uruguay, and southern Brazil starting in November 2023, including: systematic monitoring of the epidemiological situation in the countries of the region, internal monitoring in conjunction with the PAHO Emergency Department, coordination with experts and researchers for technical support to the countries, laboratory support, conducting a webinar with 571 participants, bilateral meetings with Argentina and Uruguay, involving animal health and human health authorities</p>
<p>Avian diseases (true)</p>	<p>Technical cooperation during the emergency response to AI in the countries of South America</p>	<p>PANAFTOSA /PAHO has assisted the countries in the decision and implementation of the actions for the control of AI outbreaks: Through technical cooperation, providing updated information on the pathogen and its epidemiology, promoting training to manage high mortality (depopulation techniques and carcass disposal), contributing to characterize the risk and on the strengthening of intersectoral initiatives to deal with the disease.</p>
<p>Diagnosis, biotechnology and laboratory (true)</p>	<p>WOAH Reference Laboratory</p>	<p>PANAFTOSA is a WOAH Reference Laboratory for Foot-and-Mouth Disease and Vesicular Stomatitis and Reports Activities for 2023 can be accessed at</p>

<p>Food security (true)</p>	<p>1-Inter American Network of Food Analysis Laboratories 2-Food Safety Capacity Building 3-Risk Communication 4-World Food Safety Day 5-Food Safety and Climate Change</p>	<p>https://www.woah.org/en/what-we-offer/expertise-network/reference-laboratories/#ui-id-5</p> <p>1-The Inter American Network of Food Analysis Laboratories (INFAL) organized proficiency tests for the determination of foodborne pathogens E. Coli, L. Monocytogenes, and Salmonella in meat products with 58 participant laboratories from 12 countries and the determination of pesticides in pineapple that count on the participation of 7 laboratories from 5 countries. The INFAL celebrated the World Accreditation Day focusing on the technical seminar on flexible accreditation. The seminar was attended by 723 participants from 19 countries in the Americas. Bolivia and Cuba laboratories are receiving technical support to implement a pilot study for the assessment of AMR in Salmonella spp. from foodstuffs under a One Health approach. (in course). Technical staff from INFAL's laboratories received specialized training in qualification of liquid chromatography equipment, food microbiology, risk analysis according to the ISO 17025:2017 and lead auditor. A total of 110 participants from 16 countries joined the trainings. 2- PANAFTOSA/PAHO has been providing technical support to Codex Trust Fund Projects beneficiary countries in El Salvador/Guatemala, Bolivia, and Guyana to develop their national Codex Alimentarius Strategic Plans and has provided technical face-to-face and online trainings in HACCP, SPS measures, food labelling and food safety risk analysis. PANAFTOSA/PAHO has trained more than 200 food safety professionals in Central America. A manual on good practices in wet markets to prevent potential human-animal-food spillovers between the animal and human interface was developed by PANAFTOSA/PAHO jointly with Member States. The manual and the diagnostic tool could be implemented in selected markets of Colombia and Paraguay. A food safety risk-based inspection manual with particular focus on food establishments was published in 2023 to guide countries in the implementation of a preventive food-safety inspection system. A regional training on food safety risk management "establishment of food contaminants maximum limits" was conducted in Quito Ecuador with the participation of technical representatives from ARG, BRA, CHL, CUB, HON, GTM, ELS, ECU, PAN, PAR, PER and URU. PANAFTOSA/PAHO has been improving the capacity of food testing laboratories in Guyana for the analysis of heavy metals and foodborne pathogens and their resistant variants in food. In addition, PANAFTOSA/PAHO supported authorities to create their food sampling plans for monitoring of foodborne pathogens along the poultry value chain. 3-PANAFTOSA/PAHO created a great number of infographics, brochures, videos and other communication materials to increase awareness about food safety and AMR in the Americas. 4- PANAFTOSA/PAHO, FAO, IICA, OIRSA and CCLAC jointly organized an online regional event "Safer food, better health" to commemorate the World Food Safety Day (WFSD) in Latin America to increase awareness on Food Safety and emphasize the importance of safe food markets. The event counted with 1050 visualizations from Latin America and the Caribbean. 5-PAHO is leading the EU funded Project "Strengthening Climate Resilient Health Systems in the</p>
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		<p>Caribbean". The project includes a Food Safety component that aims to increase awareness and prevent the spread of environmental contaminants derived from the food value chain. PANAFTOSA/PAHO in cooperation with CARPHA conducted three online seminars on the impact of climate change on food safety and supported Trinidad and Tobago and Barbados to build their Climate Resilient Food Safety Plans.</p>
<p>Antimicrobial Resistance (true)</p>	<p>1-AMR Tripartite EU Project 2-AMR Awareness Week 3-Actions for Guyana improve their risk-based food inspection system and AMR surveillance</p>	<p>1-To strengthen integrated AMR surveillance in the Americas, the PAHO-FAO-WOAH Tripartite was awarded the project "Working Together to Combat Antimicrobial Resistance" funded by the EU to help selected countries implement their National Action Plans (NAP), share experiences, advocate for best practices and stimulate collaboration. During 2023, PANAFTOSA the three organizations have been jointly managing the project under the overall supervision of PAHO. The beneficiary countries of the project are Argentina, Brazil, Chile, Colombia, Paraguay, Peru and Uruguay. Multiple activities were performed under PANAFTOSA responsibility through the year, and different collaborating tasks were performed jointly with the Tripartite group. 2-PANAFTOSA/SPV-PAHO supported the development of a series of communication materials related to One Health and AMR that are of public domain and are accessible in the following websites: https://www.paho.org/en/together-fight-antimicrobial-resistance; https://www.paho.org/es/panaftosa/resistencia-antimicrobiana-produccion-animal. To mark the World Antimicrobial Awareness Week, PANAFTOSA/PAHO organised and participated in different activities with third parties and other Networks. PANAFTOSA and the CaribVET Network organized a round of 3 online webinar series around this week thematic, to promote awareness and capacities of some countries in the Caribbean region. Besides, there was an active participation with PAHO's Representative office in Colombia, with a live presentation about AMR in pets and the home environment. 3-Since 2022, PAHO and the Government of Guyana have had an agreement between the parties to strengthen the national public health preparedness and response system. The Project is being implemented through a Project Implementation Unit with the participation of the Ministry of Health, Ministry of Agriculture, and other institutions. One of the objectives of the terms of the agreement is to strengthen laboratory capacities to assess the microbiological risks from food and animal sources and antimicrobial resistance (AMR) along the food value chain. In 2023, theoretical and hands-on training was provided for sampling, detection and identification techniques for pathogens in the poultry production chain, as well as training in molecular AMR techniques for characterizing these pathogens.</p>

TOR4 AND 5: NETWORKING AND COLLABORATION

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

Yes

Name of WOAHC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
WOAH Reference Laboratory for avian influenza and Newcastle disease	LFDA-SP/MAPA, Rua Raul Ferrari, s/n° Jardim Santa Marcelina CEP 13100-105 Campinas SP BRASIL	Americas	Collaborating work on avian Influenza diagnosis capacity building
WOAH Reference Laboratory on Rabies	Poxvirus and Rabies Branch, Division of High-Consequence Pathogens and Pathology National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, 1600 Clifton Road, NE, Mail Stop G33, Atlanta, GA 30 333 UNITED STATES OF AMERICA	Americas	Collaboration in the Regional rabies Elimination Program in Americas.
WOAH Reference Laboratory on Rabies	Centre of Expertise for Rabies CFIA/ACIA, Ottawa Laboratory Fallowfield, Animal Diseases Research Institute 3851 Fallowfield Road, P.O. Box 11300, Station H, Nepean, Ontario K2H 8P9 CANADA	Americas	Collaboration in the Regional rabies Elimination Program in Americas.
WOAH Reference Laboratory on Rabies	ANSES (French Agency for Food, Environmental and Occupational Health & Safety) Laboratory for Rabies and Wildlife (Nancy), Technopôle agricole et vétérinaire Domaine de Pixérécourt, B.P. 40009, 54220 Malzéville Cedex FRANCE	Americas	Collaboration in the Regional rabies Elimination Program in Americas.

TOR6: EXPERT CONSULTANTS

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

Yes

NAME OF EXPERT	KIND OF CONSULTANCY	SUBJECT
Dr. Ana Paula Alvim	Advisor	Laboratory
Dr. André Luis de Sousa dos Santos	Advisor	Food Safety/AMR
Dr. Baldomero Molina Flores	Advisor	Zoonosis
Dr. Daniel Magalhães Lima	Advisor	Epidemiology & Modeling
Dr. Edviges Maristela Pituco	Advisor	Laboratory & FMD
Dr. Felipe Rocha	Technical Officer	Zoonosis and Veterinary Public Health
Dr. Guilherme F. Marques	Advisor	Veterinary Public Health

Dr. Lia Buzanovsky	Advisor	Risk Analysis & GIS
Dr. Manuel Sánchez Vázquez	Advisor	Epidemiology and FMD
Dr. Marco Vigilato	Advisor	Veterinary Public Health & Zoonosis
Dr. Margarita Corrales	Advisor	Food Safety/AMR
Dr. Monica Martini	Advisor	Technical Cooperation
Dr. Ottorino Cosivi	Advisor	Veterinary Public Health
Dr. Rodrigo García	Advisor	FMD
Dr. Germán Andrés Vásquez	Advisor	AMR

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

The very reason of PANAFTOSA's existence is to provide Technical Cooperation (TC) to the countries of the Pan American Health Organization. In this regard, PANAFTOSA's TC interventions to countries include to: (a) mobilize resources (financial, physical, human, information, political, institutional); (b) disseminate information; (c) provide training; (d) promote norms, plans, policies; (e) promote applied research; and (f) provide direct technical advice. PANAFTOSA's TC is provided to our countries' Ministries of Health and Ministries of Agriculture/Official Veterinary Services

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

Yes

a) Technical visit : 17649

b) Seminars : 1264

c) Hands-on training courses: 807

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
B	Workshop "The use of transmission models to simulate foot-and-mouth disease epidemics and the implementation of control actions" at PANAFTOSA	Brazil, Ecuador, Paraguay, Argentina, Bolivia, Uruguay	14

C	FMD field simulation exercise	Ecuador	80
C	Course on Geographic Information Systems applied to the tasks of official veterinary services in Ecuador	Ecuador	27
C	Course on Geographic Information Systems applied to the tasks of official veterinary services in Bolivia	Bolivia	29
B	Regional consultation for strengthening intersectoral work in the human-animal interface of influenza	Argentina, Brazil, Canadá, Chile, Colombia, United States, Guatemala and México	63
C	Workshop for the management of high mortality in animals in avian influenza emergencies	Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, Guatemala, Panamá, Perú, El Salvador, Uruguay	20
A	Strengthening intersectoral work in the human-animal interface of zoonotic influenza, Bolivia	Bolivia	22
A	Participation as an expert in the WOAHP FMD mission to Kazakhstan	Kazakhstan	1
B	Workshop participation: Strengthening scientific knowledge for the management of public policy to control, prevent and eradicate glanders in Brazil	Brazil	15
B	Subregional Meeting of the International Health Regulations IHR (2005) for Central America, Cuba and the Dominican Republic	6 Central America countries, Cuba and the Dominican Republic	50
A	Self-assessment of SPAR capacity C12: "Zoonotic diseases" of the State Party self-assessment Annual Reporting (SPAR) tool under the International Health Regulations	Guyana	21
C	National workshop for the development of the national plan pandemic influenza vaccination and plan simulation exercise national vaccine rollout	Bolivia	15
B	One Health Regional Workshop: Regional consultation for the strengthening intersectoral work in the human-animal-environment interface of zoonotic influenza	México, Guatemala, Belice, El Salvador, Honduras, Nicaragua, Costa Rica, Panamá and Dominican Republic	56
B	Annual monitoring of IHR capabilities and multi-sector consultation of One Health	Dominican Republic	51
B	One Health in the Americas: The importance of inter-institutional collaboration in the hemisphere and its rural communities	Argentina, Canadá, Colombia, Costa Rica, United States, Guatemala, México and Perú	48

B	Training in strategic equipment to confront Zoonosary Emergencies	Brazil	50
A	Facilitate the self-assessment of capacity 12 "Zoonotic diseases" of the State Party self-assessment Annual Reporting (SPAR) tool under the International Health Regulations	Surnam	24
C	Workshop on Modeling the Dissemination of Foot-and-Mouth Disease in Bolivia	Bolivia	11
C	Workshop on Modeling the Dissemination of Foot-and-Mouth Disease in South American Countries	Argentina, Bolivia, Brazil, Ecuador, Paraguay and Uruguay	14
C	Workshop to develop a guide for surveillance of avian influenza in humans in the context of One Health	Brazil	50
B	Virtual course in the qualification of liquid chromatography and gas chromatography equipment	Argentina, Bolivia, Brazil, Chile, Ecuador, Honduras, Mexico, Panama, Paraguay, Peru, Dominican Republic, Uruguay and Venezuela	23
B	Virtual course in water and food microbiological analysis. Steps towards ISO 17025:2017 accreditation	Argentina, Chile, Colombia, Cuba, El Salvador, Guatemala, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela	22
B	Virtual course in risk analysis for food analysis laboratories according to ISO 17025:2017	Argentina, Bolivia, Brazil, Chile, Costa Rica, Cuba, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela	45
B	Virtual course for lead auditors ISO/IEC 17025:2017 & ISO 19011:2018	Argentina, Brazil, Chile, Costa Rica, El Salvador, Honduras, Mexico, Nicaragua, Paraguay, Peru, Uruguay and Venezuela	22
C	Workshop in principles of risk analysis in food safety, 30 Jan-2Feb.	El Salvador	30
C	Regional workshop on evidence-informed decision on food safety risk management. Establishment of maximum levels of chemical contaminants in food (MLs), 19-23 Jun,	Argentina, Brazil, Chile, Cuba, Honduras, Guatemala, El Salvador, Ecuador, Panama, Paraguay, Peru and Uruguay.	40
C	Analysis of Hazard Analysis Critical Control Points, 12-14 Dec.	Panama	30
C	Application of diagnostic tool and training in good practices in food traditional markets, 20-30 Jun.	Colombia	50
C	Application of diagnostic tool and training in good practices in food traditional markets, 20-24 Oct.	Paraguay	1

C	Regional workshop on Good Practices in Food Traditional Markets, 8-10 Nov.	Brasil, Chile, Colombia, Peru, Paraguay and Uruguay.	25
C	Tripartite project RAM-UE. PANAFTOSA/VPH-PAHO Workshop: Theoretical-practical workshop on phenotypic and genotypic methodologies and standardization applied to antimicrobial resistance for important pathogens in food producing animals.	Paraguay, Colombia, Perú, Brazil, Argentina, Uruguay, Chile	22
C	Tripartite project RAM-UE. PANAFTOSA/VPH-PAHO Workshop: Theoretical-Practical Workshop On "Phenotypic and Genotypic Methodologies Applied To Resistant Pathogens Of Importance In Food and Food Animals"	Paraguay, Colombia, Perú, Brazil, Argentina, Uruguay, Chile	48
C	Strengthen the sampling plans for foodborne pathogens and their resistant variants in the poultry value chain, 17-21 July.	Guyana	15
C	Hands-on-training on Testing Foodborne Pathogens and their resistant variants, 6-16 Nov.	Guyana	20
C	Implementation of methods for the determination of trace elements in food matrices by AAS-Flame, 6-16 Nov.	Guyana	10
B	CaribVET & PANAFTOSA/VPH-PAHO. Webinar series on antimicrobial resistance. 3 Sessions. Nov. 2023	At least 20 Caribbean countries and territories	140
B	XII Virtual Workshop of Latin American Network of Public Antivenom Manufacturing Laboratories (RELAPA) – Preclinical studies	Argentina, Brasil, Bolivia, Colombia, Costa Rica, Ecuador, Perú, Venezuela, México	79
A	Curso Virtual de Actualización Profesional sobre Hidatidosis/Equinococosis Quística	Argentina, Mexico, Peru, Ecuador, Chile, Bolivia, Colombia, Uruguay, Paraguay, Panama, Honduras, Costa Rica, Cuba, Venezuela, El Salvador, Nicaragua, Mauritius, Angola, Brazil, España, Republica Dominicana, Dominica, Francia, Estados Unidos	3086
A	Curso Virtual Profilaxis de la Rabia	Mexico, Ecuador, Chile, Colombia, Peru, Argentina, Venezuela, Republica Dominicana, Bolivia, Uruguay, Paraguay, Honduras, Panama, El Salvador, Brasil, Cuba, Costa Rica, Guatemala, Nicaragua, España, Estados Unidos, Dominica, Angola, Portugal, Grecia, Mauritania, Serbia, Australia, Suriname	14495
C	Sampling and diagnosis of rabies in domestic animals	Venezuela	10
C	Semanario nacional para rabia de herbívoros de Peru	Peru	60

B	Webinar sobre Encefalites Equina	Alemania, Antigua y Barbuda, Argentina, Belice, Bolivia, Brasil, Chile, Colombia, Costa Rica, Dominica, El Salvador, Ecuador, Estados Unidos, Guatemala, Haití, Honduras, Jamaica, México, Nicaragua, Panamá, Paraguay, Perú, República Dominicana, Santa Lucía, San Cristóbal y Nieves, Surinam, Uruguay, Venezuela	571
B	Presentación del tema "Una salud y enfermedades zoonóticas" en el marco del curso MOPECE (Módulo de Principios de Epidemiología para el Control de Enfermedades)	Paraguay	15

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 WOA?H

Yes

NATIONAL/INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	WOAH ad hoc Group for FMD status	N/A	2023-10-01	Paris	1

TOR9: DATA AND INFORMATION DISSEMINATION

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

a) Articles published in peer-reviewed journals:

2

1. *Vigilato MAN, Belotto AJ, Tamayo H, Rocha F, Molina-Flores B, Pompei JCA, Zanetti L, Cosivi O (2023). Towards the Elimination of Canine Rabies in the Americas: Governance of a Regional Program. In: Rupprecht, C.E. (eds) History of Rabies in the Americas: From the Pre-Columbian to the Present, Volume I. Fascinating Life Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-25052-1_13*

2. *Chuquiستا-Alcarraz O, Falcón N, Vigilato MAN, Rocha F, Toledo-Barone G, Amorim-Conselheiro J, Recuenco SE, Castillo-Neyra R. Dog Population Rabies Immunity before a Mass Vaccination Campaign in Lima, Peru: Vulnerabilities for Virus Reestablishment. Am J Trop Med Hyg. 2023 Jul 10;109(2):420-428. doi: 10.4269/ajtmh.22-0530. PMID: 37429572; PMCID: PMC10397462.*

b) International conferences:

9

1. *Vieira J. Primer congreso nacional de sanidade e inocuidad agroalimentaria. Evento paralelo "Enfoque de Una Salud em los mercados de productos agropecuarios. Sep. 2023.*

2. *Corrales M. Pulsenet Asia-Pacific. Oct. 2023.*

3. *Corrales M. Pulsenet and PAHOGen Meeting. Nov. 2023.*

4. *Corrales M. INFOSAN. Dec 2023.*

5. *Taller Marco de Planificación "Strengthening regional strategic and operational cooperation for the protection of the Selva Maya". Chetumal, México. March 2022. Lecture: Una Salud: visión y experiencias de PANAFTOSA/OPS.*

6. *America's Governance in Rabies Elimination: recommendations form REDIPRA 17. Rabies In The Americas – RITA Conference 2023.*

<https://ritaconference2023.org/en/home.asp?lng=EN>

7. *Rabies epidemiology in Latin America and the Caribe. Rabies In The Americas – RITA Conference 2023. <https://ritaconference2023.org/en/home.asp?lng=EN>*

8. *Advances to achieve Zero in 2030 in the Americas. Rabies In The Americas – RITA Conference 2023. <https://ritaconference2023.org/en/home.asp?lng=EN>*

9. *Situation of livestock rabies and the use of contact network to support hematophagous bat and rabies surveillance. Rabies In The Americas – RITA Conference 2023.*

<https://ritaconference2023.org/en/home.asp?lng=EN>

c) National conferences:

6

1. *World Food Safety Day. Jun. 2023. Inocuidad de los Alimentos. Virtual, Ecuador.*

2. *World Food Safety Day. Jun. 2023. Las normas alimentarias salvan vidas. Costa Rica.*

3. *World Food Safety Day. Jun. 2023. Normas alimentarias salvan vidas. Gastromotiva. Presential. Brasil.*

4. *World Food Safety Day. Jun. 2023. Normas alimentarias, comunicación eficaz y claves para fortalecer la confianza del consumidor y proteger la salud. Online, Spain.*

5. World Food Safety Day. Jun. 2023. Buenas prácticas en mercados tradicionales de alimentos. Virtual. Brasil

6. World AMR Awareness Week. Nov. 2023. Prevenamos juntos la Resistencia a los Antimicrobianos" organizado por el Servicio Nacional de Sanidad Agropecuaria e Inocuidad Alimentaria, Virtual, Bolivia.

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

1

Foot-and-Mouth Disease: Comparative Analysis of Disease-Free Status with and Without Vaccination, 11 May 2023 (<https://iris.paho.org/handle/10665.2/57733>)

REDIPRA 17. Regional Plan for the Elimination of Canine Rabies 2024-2030. 2023. (<https://iris.paho.org/handle/10665.2/58961>).

REDIPRA 17. Inform of the Livestock Rabies Programs 2021-2022. 2023. (<https://iris.paho.org/handle/10665.2/58955>).

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

During 2023 PANAFTOSA has upgraded its local premises in Duque de Caxias, including the construction of a new BSL3 laboratory, which should be functioning by the end of 2024.

12. Additional comments regarding your report:

PANAFTOSA also cooperates through instruments such as conventions and cooperation agreements on foot-and-mouth disease, zoonoses and food safety with Brazil, Ecuador and Paraguay.