

WOAH Collaborative Centre Reports Activities 2022

Activities in 2022

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Title of WOA Collaborating Centre	Veterinary Public Health
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Name of the writer:	Dr. Baldomero Molina Flores, Specialist in Diagnosis, Surveillance and Control of Zoonotic Diseases molinab@paho.org

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

DISEASE CONTROL (FOOT AND MOUTH DISEASE)

Title of activity	Scope
49th Meeting of the South American Commission for the fight of FMD (COSALFA)	The 49th Ordinary Meeting of the South American Commission for the fight of Foot-and-Mouth Disease (COSALFA 49) was held in August 25 and 26 as a virtual event. In the meeting was analysed the current FMD situation in South America according

	with the Hemispheric Program for the Eradication of FMD (PHEFA) Action plan 2021-2025.
as above	
Title of activity	Scope
International Seminar pre-COSALFA	The seminar was focused on the tools needed in an epidemiological context of Foot-and-Mouth Disease free: the goal of PHEFA Plan of Action 2021-2025(August 23-24, virtual event)
as above	
Title of activity	Scope
Sustainability of the FMD free status in countries of the Region	PANAFTOSA has provided technical cooperation to Colombia, Bolivia, and Ecuador to support the country FMD programs, assisting the countries in maintain their status of FMD free.
as above	
Title of activity	Scope
Restoration of the FMD control program in Venezuela	PANAFTOSA provided technical cooperation to INSAI and the associations of livestock producers in Venezuela. The Centre has facilitated the implementation of the public-private entity FUNVESSA, the Venezuelan Foundation for Animal Health Services, with the main objective of enhancing the vaccination strategy of the country and to give continuity and effectiveness to the FMD program.
as above	
Title of activity	Scope
Facilitating the creation of a Regional Antigen/vaccine bank for FMD (BANVACO)	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 already officially on board in the initiative and other countries already demonstrating their interest, during 2022 the Centre implemented a number of activities contribute to define the way of work and scope of BANVACO.
as above	
Title of activity	Scope
Chairing the Global Coordination Committee on FMD (GCC-FMD)	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 phase of the FMD Global Strategy for final endorsement by the GF-TADS. During 2022 the GCC has work to define the priorities and the action plan.

EPIDEMIOLOGY, SURVEILLANCE, RISK ASSESSMENT, MODELLING	
Title of activity	Scope
Support to countries in the design and implementation of epidemiological studies for FMD	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.
as above	
Title of activity	Scope
Support to countries in the design and implementation of epidemiological studies for Avian Influenza	Provided technical cooperation to PAN in the design of AI sero-surveys for poultry farms.
as above	
Title of activity	Scope
Development of IVVO information system	PANAFTOSA/PAHO completed the development of the Interface for Official Veterinary Surveillance (IVVO), an online information system to support official veterinary (both passive and active) of animal diseases surveillance at national and regional level, which was launched in 2021, and is working to engage the countries in its utilization. The new system includes modules to capture surveillance data from companion animals and it has been trialled in Brazil
TRAINING, CAPACITY BUILDING	
Title of activity	Scope
Training and capacity building in the Americas	Through 2022 PANAFTOSA/PAHO has provided several training and capacity building services to the countries of the Americas region (check section 8).
ZOOZOSES	
Title of activity	Scope
World Rabies Day 2022	PANAFTOSA/PAHO has worked on rabies awareness with the countries of the region during the World Rabies Day 2022, with several events organized in each country that can be reached at: https://www.paho.org/es/campanas/dia-mundial-contra-rabia-2022
as above	
Title of activity	Scope
	Within the framework of the Americas Region's Network of National Rabies Control Programs Directors (REDIPRA),

REDIPRA Network	PANAFTOSA/PAHO has provided direct technical cooperation and followed the advances in each country of the region, promoting several virtual meetings (check section 8).
as above	
Title of activity	Scope
Paralytic rabies transmitted by hematophagous bats to livestock	Development and launch of a self-evaluation tool, in the Regional Information System for the Epidemiological Surveillance of Rabies in the Americas (SIRVERA), for the assessment of gaps and strengths of national programs in the control of the disease.
as above	
Title of activity	Scope
RELAPA Network consolidation	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).
as above	
Title of activity	Scope
Antivenom neutralization capacity project	PANAFTOSA jointly with RELAPA laboratories elaborated and started a project to evaluate the neutralization capacity of the antivenom serums produced in the region of the Americas.
as above	
Title of activity	Scope
Cystic Echinococcosis Virtual Training	Virtual Training for public health and animal health agents, on epidemiology, diagnosis, control and prevention, treatment and future perspectives upon the diseases: https://www.campusvirtualsp.org/es/curso/curso-virtual-de-actualizacion-profesional-sobre-hidatidosis-equinococosis-quistica-2021
as above	
Title of activity	Scope
United Against Rabies (UAR) Forum	PANAFTOSA is participating in the UAG, a tri partite initiative (FAO, WOA, WHO) to promote efforts, political will, and additional resources to end human deaths from dog-mediated rabies by 2030. The participation is mainly on Working group 2- to generate, innovate, and measure impact, but also contributes in the other WG1 - Effective use of vaccines, medicines, tools, and technologies and WG3 Generating sustained commitment and resources.

as above	
Title of activity	Scope
Comprehensive approach for the surveillance, control and prevention of brucellosis	PANAFTOSA/PAHO has provided direct technical cooperation to several countries of the region, such as PAN, COL and MEX, regarding the surveillance and control of human and animal brucellosis, promoting and participating in some virtual meetings, seminars and courses.
as above	
Title of activity	Scope
Surveillance and control of bovine tuberculosis in Panama.	PANAFTOSA/PAHO has been working with the Ministry of Agriculture (MIDA) and the Ministry of Health (MIDA) of Panama to develop and implement a comprehensive approach for the surveillance and control of bovine tuberculosis. Several meeting to discuss surveillance and control programmes in place have taken place during 2022 and a national study to understand the epidemiological situation of the diseases is currently under implementation.
as above	
Title of activity	Scope
Elimination of taeniasis/cysticercosis in the Americas	PANAFTOSA is collaborating with PAHO/CDE in the Regional Program for the Elimination of taeniasis/cysticercosis complex (<i>Taenia solium</i>) in the Americas, particularly regarding the implementation of control actions (treatment and vaccination) in pig populations.
as above	
Title of activity	Scope
Bovine taeniasis/cysticercosis	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.
as above	
Title of activity	Scope
Zoonosis regional and international initiatives	PANAFTOSA/PAHO has been involved in the development, planning and proposal submission of several zoonosis-related regional and international initiatives, such as the "Preventing Zoonotic Disease Emergence (PREZODE)", the "Zoonotic Disease Integrated Action (ZODIAC)", the German "Global Programme for Pandemic Prevention and Control - One Health (GV PPOH)", the "Shoulder to Shoulder: Accompanying Ministries of Health in Central America in Strengthening Local and Global Health Security (CDC-RFA-GH21-2164), and the "International Climate Initiative of the German Federal Ministry for the Environment,

Nature Conservation and Nuclear Safety (IKI)”. AVIAN DISEASES	
Title of activity	Scope
Technical cooperation during the emergency response to AI in the countries of South America	PANAFTOSA has assisted the countries in the decision and implementation of the actions for the control of AI outbreaks: Through the technical cooperation, providing update information on the pathogen and its epidemiology, promoting training to manage high mortality (depopulation techniques and carcass disposal) and contributing to characterise the risk.
DIAGNOSIS, BIOTECHNOLOGY AND LABORATORY	
Title of activity	Scope
WOAH Reference Laboratory	PANAFTOSA is a WOAH Reference Laboratory for Foot-and-Mouth Disease and Vesicular Stomatitis and Reports Activities for 2022 can be accessed at https://www.woah.org/en/what-we-offer/expertise-network/reference-laboratories/#ui-id-5
VACCINES	
Title of activity	Scope
Provision of canine and human rabies immunobiologicals	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.
FOOD SAFETY	
Title of activity	Scope
Inter American Network of Food Analysis Laboratories	The Inter American Network of Food Analysis Laboratories (INFAL) organised the 10th General Assembly in Rio de Janeiro, Brazil, with virtual transmission, and counted on the participation of 170 laboratory members from 18 countries. During the Assembly, the network defined their biannual action plans 2023-2024 which included the provision of technical seminars and trainings, external audits and proficiency tests among others. During 2022, the INFAL organised 3 online seminars and 11 technical talks with an average participation of 100 members from approx. 20 countries in the Americas. The INFAL organized proficiency tests for the determination of indicator microorganisms in milk powder that counted on the participation of 25 laboratories from 16 countries, another for the determination of pesticides in banana with 16 participant laboratories from 4 countries and another for the determination of aflatoxin M1 in milk powder with 9 participant laboratories from 4 countries in the Region. The INFAL celebrated the World Accreditation Day focusing the technical seminar on flexible

	<p>accreditation. The seminar was attended by 704 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).</p>
as above	
Title of activity	Scope
Food Safety Capacity Building	<p>Based on the results, of an online questionnaire sent to countries in the Region to assess the food safety risk analysis capabilities, PANAFTOSA/PAHO, FAO and the University of Minnesota draft and submitted a project proposal to the Standard and Trade Development Facility (STDF) on "Improving food safety risk analysis capacity in Latin America through a South-South cooperation approach to facilitate regional trade". The project has been approved and will be implemented within 2023-2026. PANAFTOSA/PAHO has been providing technical support to Codex Trust Fund Projects beneficiary countries in Honduras, 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 training 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 with Member States. It will be used in 2023 to train authorities involved in wet markets. A food safety risk-based inspection manual with particular focus on food establishments was finalized in 2022 to guide countries in the implementation of a preventive food-safety inspection system. PANAFTOSA/PAHO has been providing technical support to Codex Trust Fund Projects beneficiary countries in Honduras, 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 risk analysis for food safety. PANAFTOSA/PAHO has trained more than 200 food safety professionals in Central America. A training manual on good practices in wet markets to prevent potential human-animal-food spillovers between the animal and human interface was developed by PANAFTOSA with Member States. It will be used in 2023 to train authorities involved in wet markets. A food safety risk-based inspection manual with particular focus on food establishments was finalized in 2022 to guide countries in the implementation of a preventive food-safety inspection system.</p>
as above	
Title of activity	Scope
	<p>PANAFTOSA/PAHO has provided trainings in Food Safety Risk</p>

Risk Communication	Communication within the activities of the Codex Trust Fund Projects in Honduras, El Salvador/Guatemala and Bolivia. Additionally, 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.
as above	
Title of activity	Scope
World Food Safety Day	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 4554 visualizations from Latin America and the Caribbean. PANAFTOSA/PAHO, FAO, WOA, CAFHSA and CARPHA jointly organized an online subregional event "Caribbean on the move for safer food, better health" to commemorate the WFSD.
as above	
Title of activity	Scope
Food Safety and Climate Change	PAHO is leading the EU funded Project "Strengthening Climate Resilient Health Systems in the 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 is identifying two pilot countries to build Climate Resilient Food Safety Plans as well as the manual on rapid methods of analysis for food and water laboratories was finalized.
OTHER: ANTIMICROBIAL RESISTANCE	
Title of activity	Scope
AMR Tripartite EU Project	To strengthen integrated AMR surveillance in the Americas, the PAHO-FAO-WOA 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 2022, 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.
as above	
Title of activity	Scope

AMR Awareness Week	<p>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;</p> <p>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.</p>
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2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable area

4. Did your Collaborating Centre maintain a network with other WOAHO 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
Caribbean Animal Health Network (CaribVET)	Virtual	Americas	PANAFTOSA/PAHO is a CaribVET Steering Committee member, involved in veterinary public health topics. Since 2021 is sharing the Technical Working Group on Antimicrobial Resistance

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

Yes

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Name of OIE CC/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.

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

Yes

NAME OF EXPERT	KIND OF CONSULTANCY	SUBJECT
Dr. Ana Paula Alvim	Advisor	Laboratory

Dr. Baldomero Molina Flores	Advisor	Zoonoses
Dr. Edviges Maristela Pituco	Advisor	Virology & FMD
Dr. Felipe Rocha	Advisor	Zoonoses
Dr. Guilherme F. Marques	Advisor	Veterinary Public Health
Dr. Manuel Sánchez Vázquez	Advisor	Epidemiology and FMD
Dr. Marco Vigilato	Advisor	Veterinary Public Health and Zoonoses
Dr. Margarita Corrales	Advisor	Food Safety and AMR
Dr. Germán Andrés Vásquez	Advisor	AMR
Dr. Monica Martini	Advisor	Technical Cooperation in Veterinary Public Health
Dr. Ottorino Cosivi	Advisor	Veterinary Public Health
Dr. Rodrigo García	Advisor	FMD

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 : 1

b) Seminars : 19

c) Hands-on training courses: 5

d) Internships (>1 month) : 0

TYPE OF TECHNICAL TRAINING PROVIDED (A, B, C OR D)	CONTENT	COUNTRY OF ORIGIN OF THE EXPERT(S) PROVIDED WITH TRAINING	NO. PARTICIPANTS FROM THE CORRESPONDING COUNTRY
c	Course on Geographic Information Systems applied to the tasks of official veterinary services in Colombia	Colombia	20 staff ICA
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, Peru, Uruguay	12 professionals from OVS
b	Importance of early warning and early response in the process of FMD eradicating	Bolivia, virtual	30 professionals from OVS SENASAG
b	Avian influenza surveillance at the human-animal interface. Introductory regional workshop on diagnostic techniques for transboundary animal diseases	In Argentina with participation from Countries from South America	40 professionals from OVS
c	FMD field simulation exercise	Colombia	50 professionals from OVS ICA
b	IX Virtual Workshop of Latin American Network of Public Antivenom Manufacturing Laboratories (RELAPA) – Control of quality, tests and	Argentina, Brazil, Colombia and Costa Rica	47

	alternatives		
b	X Virtual Workshop of Latin American Network of Public Antivenom Manufacturing Laboratories (RELAPA) – Update on the situation of the Public Antivenom Manufacturing Laboratories	Argentina, Belize, Brazil, Chile, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Nicaragua, Paraguay, Peru, Uruguay and Venezuela	16
b	XI Virtual Workshop of Latin American Network of Public Antivenom Manufacturing Laboratories (RELAPA) – Surveillance of accidents by venomous animals	Brazil	56
b	Virtual Workshop of Latin American Network of Public Antivenom Manufacturing Laboratories (RELAPA) – Legislation, planning and operating studies for stability of antivenoms	Argentina, Brazil and Costa Rica	27
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	266
b	Digital transformation of a quality management system	19	415
b	Preparation for the Proficiency Testing - Determination of pesticides in orange	14	30
b	Emerging antimicrobial resistance mechanisms in Salmonella spp. and E. coli: epidemiology, detection and characterization	16	137
b	Workshop on the procedures to establish a country position at Codex and the interrelationship between the agreements on sanitary and phytosanitary measures (SPS) and technical barriers to trade (TBT).	El Salvador Guatemala Bolivia	27, 30, 27, respectively
b	Workshop to update the Code of Hygienic Practices for Food CXC 1-1969. 2020 review.	El Salvador	29

b	Analysis of Hazard Analysis Critical Control Points	Guatemala	60
b	Food Fraud	Panama	20
b	Porkcolombia. "Primer Foro de Resistencia Antimicrobiana en el sector porcicultor para Latinoamérica y el Caribe". Presentation title: "Planes de acción nacionales de lucha contra la RAM en Latinoamérica y el Caribe, consideraciones de interés para el sector agropecuario". Colombia, 12 of July, 2022	Colombia, Argentina, Chile, Panamá, Mexico, Costa Rica, Dominican Rep.	30
c	Tripartite project RAM-UE. PANAFTOSA/VPH-PAHO Workshop: Secuenciación de patógenos emergentes y análisis bioinformáticos. Brazil, 23-26 of May , 2022.	Paraguay, Colombia, Perú, Brazil, Argentina, Uruguay, Chile	20
b	PAHO's Representative office in Colombia. Colombian WAAW event. Presentation title: Problemática y acciones básicas para mitigar la RAM en mascotas. 23 of Nov. 2022	Colombia	120
b	SADI Congress. Presentation title: Una salud y RAM, perspectiva desde el componente animal. Argentina, 15 of Sept. 2022	Argentina	50
c	Tripartite project RAM-UE. PANAFTOSA/VPH-PAHO Workshop: Detección Fenotípica y Genómica de la Resistencia a los Antimicrobianos en el Marco de "Una Salud". Uruguay, 28 of Nov - 3 of Dec 2022.	Paraguay, Colombia, Perú, Brazil, Argentina, Uruguay, Chile	30
b	CaribVET & PANAFTOSA/VPH-PAHO. Webinar series on antimicrobial resistance. 3 Sessions. Nov. 2022	At least 20 Caribbean countries and territories	140
b	FMD destock simulation exercise	Ecuador	75professionals from OVS AGROCALIDAD

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

Yes

NATIONAL/INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	WOAH ad hoc Group for FMD status		2022-10-14	Online	

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

a) Articles published in peer-reviewed journals:

3

1. Emma Taylor, Elsa Gladys Aguilar-Ancori, Ashley C Banyard, Isis Abel, Clara Mantini-Briggs, Charles L Briggs, Carolina Carrillo, Cesar M Gavidia, Ricardo Castillo-Neyra, Alejandro D Parola, Fredy E Villena, Joaquin M Prada, Brett W Petersen, Nestor Falcon Perez, Cesar Cabezas Sanchez, Moises Sihuinchu, Daniel G Streicker, Ciro Maguina Vargas, Ana Maria Navarro Vela, Marco A N Vigilato, Hui Wen Fan, Rodney Willoughby, Daniel L Horton, Sergio E Recuenco, *The Amazonian Tropical Bites Research Initiative, a hope for resolving zoonotic neglected tropical diseases in the One Health era, International Health, 2022, ihac048, <https://doi.org/10.1093/inthealth/ihac048>*

2. Marcos A. Espinal, Monica Alonso, Leandro Sereno, Rainier Escalada, Martha Saboya, Alba M. Roper, Ernesto Bascolo, Freddy Perez, Marco Vigilato, Agnes Soares, Silvana Luciani, Andrea Vicari, Luis G. Castellanos, Massimo Ghidinelli, Jarbas Barbosa. *Sustaining communicable disease elimination efforts in the Americas in the wake of COVID-19. The Lancet Regional Health - Americas, Volume 13, 2022, 100313, ISSN 2667-193X, <https://doi.org/10.1016/j.lana.2022.100313>*

3. Cabezas AH, Mapitse NJ, Tizzani P, Sanchez-Vazquez MJ, Stone M and Park M-K (2022) *Analysis of suspensions and recoveries official foot and mouth disease free status of WOAAH Members between 1996 and 2020. Front. Vet. Sci. 9:1013768. doi: 10.3389/fvets.2022.1013768*

b) International conferences:

26

c) National conferences:

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

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

12. Additional comments regarding your report: