

WOAH Collaborative Centre Reports Activities 2024

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CENTRE INFORMATION

*Title of WOAHCollaborating Centre	Veterinary Services Capacity Building (Americas)
*Address of WOAHCollaborating Centre	Center for Animal Health and Food Safety
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*Name Director of Institute (Responsible Official):	Andres Perez
*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Andres Perez, Director
*Name of the writer:	Maria Sol Perez Aguirreburualde, CAHFS Deputy Director

TOR 1 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 WOAHC

Category	Title of activity	Scope
		"Two 2nd year Residency in Veterinary

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Disease control (true)	Veterinary Public Health and Preventative Medicine Residency Program - Resident Advising and Mentoring	Public Health, and onboard three new residents in July. The residency has trained 55 residents since 2002 and currently has 5 residents enrolled. Residents and residency involved in the public health, zoonosis and epidemiology training of DVM students within the CVM program Program Director: Melinda Wilkins Resident mentors: Tiffany Wolf, Jeff Bender, Andres Perez, Scott Wells, Katey Pelican, Melinda Wilkins, Victoria Hall, Sol Perez, Mary Katherine Obrien, "
Epidemiology, surveillance, risk assessment, (true)	Graduate Student Advising and Mentoring	5 PhD and MsSc students.
Training, capacity building (true)	ProgRESSVet	10 months training program for mid-career officials across LATAM (14 countries), Africa (23 countries), Eastern Europe (11 countries), and South East Asia (2 countries).
Feed safety (true)	FS@Risk	Collaboration with FAO and PAHO in Latin America - implementation of training for food safety agents - funding from STDF program.

TOR 3: HARMONISATION OF STANDARDS

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

Proposal title	Scope/Content	Applicable Area
Evaluating the sensitivity of US surveillance system for tier-1 foreign animal diseases of swine.	USDA - APHIS	Health Management
A near-real time global surveillance system for swine diseases (renewal)	Swine Health Information Center	Health Management
Improving national capacity		



<p>for early detection of foreign animal disease incursions: critical evaluation of field accuracy, standard of procedures, risks, challenges, and opportunities for the implementation of point of care platforms for NAHLN target diseases</p>	<p>USDA - Farm Bill - NAHLN NADPRP</p>	<p>Laboratory Expertise Health Management</p>
<p>Capacity building in laboratory diagnostics and risk assessment to support international trade of U.S. pork products in the Philippines and Vietnam</p>	<p>USDA - FAS-EMP</p>	<p>Training and Education Health Management</p>
<p>Cooperative Agreement between UMN and USDA-APHIS for Building Local Capacity on the Evaluation Of Factors Associated With The Spread Of African Swine Fever in the Dominican Republic</p>	<p>USDA, APHIS</p>	<p>Health Management</p>
<p>Applied epidemiological approaches to evaluate the Progressive Control Pathway for FMD (PCP-FMD) in endemic regions</p>	<p>ARS, APHIS</p>	<p>Training and Education Health Management</p>
<p>Prioritizing measures to mitigate the risk for African Swine Fever incursions into the US from hypothetical epidemics in selected countries of Latin America and the Caribbean</p>	<p>USDA, APHIS</p>	<p>Training and Education Health Management</p>

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

No

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

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Centro Regional para el Entrenamiento de los Servicios Veterinarios (CRESVet)	Buenos Aires, Argentina	América	Capacity building in the context of WOA?H learning platform.
Veterinary Public Health Centre for Asia Pacific (VPH-CAP)	Chiang Mai, Thailand	Asia y el Pacífico	Capacity building in the context of WOA?H learning platform.
Ecole Nationale des Services Veterinaires	Lyon, France	Europa	Capacity building in the context of WOA?H learning platform.
Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale"	Teramo, Italy	Europa	Capacity building in the context of WOA?H learning platform.
Iowa State University - Center for Food Security and Public Health (CFSPH)	Ames (IA), United States	América	Capacity building in the context of WOA?H learning platform.
Ecole Inter-Etats des Sciences et Médecine Vétérinaires	Dakar, Senegal	África	Capacity building in the context of WOA?H learning platform.
Centre National de Veille Zoosanitaire (CNVZ)	Tunis, Tunisia	África	Capacity building in the context of WOA?H learning platform.

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Reference Laboratory for ASF and AHS	Univ Complutense de, Madrid, Spain	Europa	Collaboration for supporting capacity building on ASF
Center for Epidemiology and Animal Health (CEAH)	Fort Collins, US	América	Animal Disease Surveillance Systems, Risk Analysis and Epidemiological Modelling
Organismo Internacional Regional de Sanidad Agropecuaria (OIRSA)	El Salvador, El Salvador	América	Support the development of animal health plans and the strengthening member countries quarantine systems.
USDA Foreign Agriculture Service (FAS)	Washington, DC	América	Enhance export opportunities and global food security.
Global FMD Research Alliance (GFRA) and Global Alliance for ASF control (GARA)	Multiple	África América Asia y el Pacífico Europa Oriente Medio	Coordinate research activities between and among multiple reference laboratories on ASF and FMD control globally
Centre of Excellence for Sustainable Food Systems Global Burden of Animal Diseases Programme (GBADS)	Liverpool, UK	Europa	Economics of Animal Health
The Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH)	Rio de Janeiro, Brazil		Specialized center of the Pan American Health Organization/World Health Organization (PAHO/WHO) linked to the Communicable Diseases Prevention, Control, and Elimination Department (CDE).

TOR 4 AND 5: NETWORKING AND COLLABORATION

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

Yes

Name of WOAHA CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Centro Regional para el Entrenamiento de los Servicios Veterinarios (CRESVet)	Buenos Aires, Argentina	Americas	Capacity building in the context of WOAHA learning platform.
Veterinary Public Health Centre for Asia Pacific (VPH-CAP)	Chiang Mai, Thailand		Capacity building in the context of WOAHA learning platform.
Ecole Nationale des Services Veterinaires	Lyon, France	Europe	Capacity building in the context of WOAHA learning platform.
Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale"	Teramo, Italy	Europe	Capacity building in the context of WOAHA learning platform.
Iowa State University - Center for Food Security and Public Health (CFSPH)	Ames (IA), United States	Americas	Capacity building in the context of WOAHA learning platform.
Ecole Inter-Etats des Sciences et Médecine Vétérinaires	Dakar, Senegal	Africa	Capacity building in the context of WOAHA learning platform.
Centre National de Veille Zoosanitaire (CNVZ)	Tunis, Tunisia	Africa	Capacity building in the context of WOAHA learning platform.
Reference Laboratory for ASF	Univ Complutense de	Europe	Collaboration for supporting capacity building on ASF

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	Madrid, Spain		
Center for Epidemiology and Animal Health (CEAH)	Fort Collins, US	Americas	Animal Disease Surveillance Systems, Risk Analysis and Epidemiological Modelling
Organismo Internacional Regional de Sanidad Agropecuaria (OIRSA)	El Salvador, El Salvador	Americas	Support the development of animal health plans and the strengthening member countries quarantine systems.
USDA Foreign Agriculture Service (FAS)	Washington, DC	Americas	Enhance export opportunities and global food security.
Global FMD Research Alliance (GFRA) and Global Alliance for ASF control (GARA)	Multiple	Africa Americas Asia and Pacific Europe Middle East	Coordinate research activities between and among multiple reference laboratories on ASF and FMD control globally
Centre of Excellence for Sustainable Food Systems Global Burden of Animal Diseases Programme (GBADS)	Liverpool, UK	Europe	Economics of Animal Health
The Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH)	Rio de Janeiro, Brazil	Americas	specialized center of the Pan American Health Organization/World Health Organization (PAHO/WHO) linked to the Communicable Diseases Prevention, Control, and Elimination Department (CDE).

TOR 6: EXPERT CONSULTANTS

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

Yes

Name of expert	Kind of consultancy	Subject
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Emilio León	Consultant	PVS Pathway Missions and Risk Analysis Assessments
Sergio Duffy	Consultant	Member of the OIE ad hoc Group on Evaluation of Foot and Mouth Disease Status of Members. Virtual meeting throughout November, 2023.
Mary Katherine O'Brien	Consultant	Provided eLearning and pedagogical expertise toward the development of the WOAHE Learning platform and related guidelines.

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

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

No

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

Yes

a) Technical visit : 2

b) Seminars : 30

c) Hands-on training courses: 7

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
A	Facilitation Development of ASF Control Plan	Dominican Republic	10
A	Risk assessment related to the current FMD control area in the border with Venezuela	Colombia	5
B	Over 30 seminars online throughout the year of ProgRESSVet training iterations during 2024	Multiple (14 countries from LATAM; 23 countries from Africa; 11 countries from Eastern Europe; Philippines)	170

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C	Launching ProgRESSVet workshop - Development and Assessment of Animal Disease Interventions	Uganda	29
C	Launching ProgRESSVet workshop - Development and Assessment of Animal Disease Interventions	Kenya	26
C	ProgRESSVet workshop: Surveillance of TADs (FMD, CSF, HPAI)	Brazil, Argentina, Uruguay, Peru, Ecuador, Bolivia, Venezuela, Colombia	25
C	ProgRESSVet workshop: Surveillance of TADs (FMD, CSF, HPAI)	Panama, El Salvador, Guatemala, Mexico, Honduras, Nicaragua	25
C	Launching ProgRESSVet workshop - Risk-based approaches for the Development and Assessment of Animal Disease Interventions	Multiregional Africa (23 countries from North, Eastern, Southern, and West Africa)	81
C	Launching ProgRESSVet workshop - Development and Assessment of Animal Disease Interventions	Poland, Romania, Ukraine, Serbia, North Macedonia, Montenegro, Albania, Kosovo, Turkey, Georgia	34
C	ProgRESSVet workshop: Control of ASF in the Philippines	The Philippines	47

TOR 8: 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	Location	No. Participants
Internationally	ProgRESSVet Multi- regional Africa	WOAH Regional Office, USDA International Services	2024-06-26	Nairobi, Kenya	132

TOR 9: 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

a) Articles published in peer-reviewed journals:

8

Gunasekera U, VanderWaal K, Arzt J, Perez AM. *Methods to Estimate the Between-Population Level Effective Reproductive Number for Infectious Disease Epidemics: Foot-And-Mouth Disease (FMD) in Vietnam. Transboundary and Emerging Diseases*

Hsu C-H, Montenegro M, Miclat-Sonaco R, Torremorell M, Perez AM. *Effectiveness of the repopulation protocol following African swine fever outbreaks in the Philippines. Frontiers in Veterinary Science.*

Ibáñez-Porras P, de la Torre A, Gómez-Pérez JI, Tomás-Tenllado C, García E, Cáceres G, Perez A., Iglesias I. *DiFLUision: A novel space-time alert system for IAAP. German Journal of Veterinary Research.*

Mukhanbetkaliyeva AA, Kabzhanova AM, Kadyrov AS, Mukhanbetkaliyev YY, Bakishev TG, Bainiyazov AA, Tleulessov RB, Korennoy FI, Perez AM, Abdrakhmanov SK. *The application of geoinformation methods to reveal spatio-temporal patterns of animal rabies in the Kazakhstan. Geospatial Health.*

Hsu C-H, Yang CH, Perez AM. *Google Trends as an early indicator of African Swine Fever outbreaks in Southeast Asia. Frontiers in Veterinary Science.*

Lozano Calderon LC, Cabanne GS, Marcos A, Galdo Novo S, Torres C, Perez AM, Pybus OG, König GA. *Analisis filodinamico de la evolución del virus de la fiebre aftosa en Mar Chiquita, Argentina. Archives of Virology.*

Hsu C-H, Chang C-Y, Otake S, Molitor T, Perez A. *Strategies for Transboundary Swine Disease Management in island countries of Asia: Foot and Mouth Disease, Classical Swine Fever and African Swine Fever in Taiwan, Japan, and the Philippines. Veterinary Science.*

Kadyrov A, Usenbayev A, Kurenkeyeva D, Abdrakhmanova A, Mukhanbetkaliyev Y, Adilbekov Z, Perez A, Abdrakhmanov S. *Challenges and opportunities for online education of veterinary sciences in Kazakhstan. Frontiers in Computer Sciences.*

b) International conferences:

13

1. Hsu JCH, Montenegro M, Perez AM. *Analyzing key factors and dynamics of African Swine Fever spread: Philippine insights. Conference of Research Workers in Animal Diseases. Chicago, January 2024.*

2. Gomez-Buendia A, Pozo P, Picasso-Risso C, Branscum A, Perez AM, Alvarez J. *Rethinking Animal Tuberculosis Diagnostics: Unveiling the power of the Bayesian approach. COST Association meeting. Brussels, Belgium, February 2024.*

3. Hsu JCH, Montenegro M, Perez AM. *Space-time dynamics and risk factors for African Swine Fever in the Philippines. ISVEE. Sydney, Australia, November 2024*

4. Gomez-Buendia A, Pozo P, Picasso-Risso C, Branscum A, Perez AM, Alvarez J. *Rethinking Animal Tuberculosis Diagnostics: Unveiling the power of the Bayesian approach. COST Association meeting. Brussels, Belgium, February 2024.*

5. Schambow, R., Syed Hussain, Nianet Carrasquillo, Maria Celia Antognoli, Silvia Kreindel, Raysa Reyes, and Andres M. Perez. *"Epidemiological evaluation of African Swine Fever outbreaks in the Dominican Republic from 2022-2024." 17th International Symposium of Veterinary Epidemiology and Economics, 2024. Sydney, Australia.*

6. Bakke, H., Schambow, R., Perez, A.D, Miclat-Sonaco, R., and Perez, A.M. *"Public Health and Economic Impacts Of African Swine Fever Outbreaks In The Philippines." 17th International Symposium of Veterinary Epidemiology and Economics, 2024. Sydney, Australia.*

7. Das, M., Perez, M. S., Kipkemoi, J. R., Nakadio, E. L., Perez, A. M., Wilkins, M. *Insights into Dog Rabies in Turkana, Kenya: Assessing Veterinary Professionals' Perspectives on Dog Owners' Knowledge, Attitudes, and Practices. The International Conference on One Health: Social Dimension. Ukraine, December 2024 (Oral)*

8. Das, M., Yustyniuk, V., Perez, A. M., Perez, M. S. *Global Perspectives on Rabies Control and Elimination: A Scoping Review of Dog Owners' Knowledge, Attitudes, and Practices. ISVEE. Sydney, Australia, November 2024 (Oral)*

9. Das, M., Kipkemoi, J. R., Long'or, B., Nakadio, E. L., Perez, A. M., Perez, M. S., Wilkins, M. *Evaluation of Vaccination Strategies for Controlling Rabies in Domestic Dogs in Turkana, Kenya. ISVEE. Sydney, Australia, November 2024 (Poster)*

10. Umanga Gunasekera, Miranda R. Bertram, Nguyen Van Long, Phan Quang Minh, Vo Dinh Chuong, Nguyen T. Phuong, Vo V. Hung, Nguyen Thi Diep, Jonathan Arzt, Kimberly VanderWaal, Andres Perez, *Epidemiological Dynamics of Foot and Mouth Disease in Vietnam, 2024. Sydney, Australia. (Oral)*

11. Umanga Gunasekera, Moh A. Alkhamis, Moumita Das, Sumathy Puvanendiran, Pradeep L. Kumarawadu, Munawar Sultana, Anwar Hossain, Jonathan Arzt, Andres Perez, *Use of machine learning to detect Foot and Mouth Disease risk in Sri Lanka and*

Bangladesh, 2024. Sydney, Australia. (Oral)

12. Sylvester Ochwo, Raysa Reyes, Ting-Yu Cheng, Andréia Arruda, Maria Sol Pérez, and Andres Perez. Bayesian Estimation of the diagnostic accuracy of a Point-of-need test and the Prevalence of PRRSV in The Dominican Republic. 17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia, November 2024 (Poster).
13. Sylvester Ochwo, Raysa Reyes, Ting-Yu Cheng, Andréia Arruda, Andres Perez and Maria Sol Perez Aguirreburualde. Implementing the FIT-REASSURED Criteria: Insights from a Pilot Evaluation of ASF Point-of-Care Tests. 17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia, November 2024 (Poster).

c) National conferences:

1. Jesper Chia-Hui Hsu, Rachel Schambow, Maximino Montenegro, Ruth Miclat-Sonaco and Andres Perez. "Analyzing Key Factors and Dynamics of African Swine Fever Spread: Philippine Insights". The Conference of Research Workers in Animal Diseases, 2024, Chicago, IL. (Oral)
2. Jesper Chia Hui Hsu, Maximino Montenegro, Ruth Miclat Sonaco and Andres Perez. "Assessing the Efficacy of Repopulation Strategies Post African Swine Fever Outbreaks in the Philippines." Allen D. Leman Swine Conference, 2024. St. Paul, MN. (Poster)
3. Schambow, R., Syed Hussain, Nianet Carrasquillo, Maria Celia Antognoli, Silvia Kreindel, and Andres M. Perez. "An evaluation of African Swine Fever outbreaks in the Dominican Republic from 2022-2024." Allen D. Leman Swine Conference, 2024. St. Paul, MN.
4. Mikayla G. Schlosser, Rachel A Schambow, Amit K. Pradhananga, Amy C. Kinsley, Ruth Miclat-Sonaco, and Andres M. Perez. "Qualitative stakeholder mapping of the environmental impact of African Swine Fever outbreaks in the Philippines." Allen D. Leman Swine Conference, 2024. St. Paul, MN.
5. Bakke, H., Schambow, R., Perez, A.D, Miclat-Sonaco, R., and Perez, A.M. "African Swine Fever outbreaks and its impact on the wellbeing of Filipino veterinarians." Allen D. Leman Swine Conference, 2024. St. Paul, MN.
6. Schambow, R and Perez, A.M.. "Vets to Vets: African Swine Fever. Lessons Learned from an International Education Program Pilot." Oral Presentation. Transboundary and Emerging Diseases Committee. American Association of Swine Veterinarians 55th Annual Meeting, 2024. Nashville, TN.
7. Schambow, R., and Perez, A.M. "Vets to Vets Meeting on African Swine Fever: February 2024 Final Report". 2024. University of Minnesota Center for Animal Health and Food Safety. https://cahfs.umn.edu/sites/cahfs.umn.edu/files/2024-02/v2v_summary_2024_0.pdf
8. Schambow, R. and Perez, A.M. "Overview of CAHFS Research Projects and Activities." USDA Agricultural Research Service Geospatial Environmental Epidemiology Workshop, 2024.
9. Sylvester Ochwo, Andres M. Perez, María Sol Pérez Aguirreburualde. Assessing the Usability of a Point-of-Care test for African swine fever: Implementing the System Usability Scale as a Standardized Evaluation Tool. 2024 Leman Swine Conference, St. Paul, MN. (Poster).

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

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

Invested in a program management platform to enhance coordination across multiple iterations of ProgRESSVet being implemented simultaneously.

Worked intentionally on developing standard operating procedures (SOPs) for the program's development and implementation, aimed at facilitating its transfer to local partners. Launched the first pilot of which is currently in progress in the Philippines.

12. Additional comments regarding your report:

