

WOAH Collaborative Centre Reports Activities 2022

Activities in 2022

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Centre Information

Title of WOA Collaborating Centre	Identification of animal pathogens of potential concern for global health and development of tools for their detection and characterization
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Name Director of Institute (Responsible Official):	Pr Stewart COLE
Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Dr Jean-Claude MANUGUERRA, Research director, Head of the Unit 'Environment and infectious risks'
Name of the writer:	Jean-Claude MANUGUERRA

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

TOR3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus

area for which you were designated

Proposal title	Scope/Content	Applicable area
Definition of guidelines for mobile laboratory deployment	Member states of the WHO European Region hold the highest Rapid Response Capacity, including Rapid Response Mobile Laboratories (RRML), to address Health Emergencies. RRML played a crucial role during several outbreaks of viral haemorrhagic fevers (VHFs) in Africa. In addition, Strengthening of the mobile diagnostic capacities is a key part and a prerequisite for the implementation of evidence-based measures for outbreaks control.	Laboratory expertise

4. Did your Collaborating Centre maintain a network with other WOAHA 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
Friedrich-Loeffler-Institut, Institute of Novel and Emerging Infectious Diseases	Insel Riemsermany, Germany	Europe	Think tank on orthohantaviruses
Friedrich-Loeffler-Institut,(FLI) Institute of Novel and Emerging Infectious Diseases	Insel Riemsermany, Germany	Europe	FLI and I. Pasteur are 2 core members of the new project for the European Health Emergency Preparedness and Response Authority (HERA): Delivering a Unified Research Alliance of Biomedical and public health Laboratories against Epidemics

TOR4 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?

TOR6: EXPERT CONSULTANTS

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

TOR7: 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 WOAAH, to personnel from WOAAH Members?

Yes

a) Technical visit : 3

b) Seminars : 0

c) Hands-on training courses: 3

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,c	Scientific and technical training to personnel from WOAAH Member Countries for viral haemorrhagic fever and arboviruses, serological screenings in human and animal populations. - February 2022 : on the use of multiplex serology assay for VHF, arboviral and coronavirus serodiagnosis	Central African Republic	7
a,c	Scientific and technical training to personnel from WOAAH Member Countries for viral haemorrhagic fever and arboviruses, serological and molecular screenings in animal populations. - October 2022 : on the use of NGS and ELISA for RVFV and CCHFV serodiagnosis	Mauritania	4
a,c	Scientific and technical training to personnel from WOAAH Member Countries for viral haemorrhagic fever and arboviruses, molecular screenings in animal populations. - December 2022 : on the use of qRT-PCR for RVFV and LASV diagnosis	Bénin	4

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?

No

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:

1: *Temmam S, Vongphayloth K, Baquero E, Munier S, Bonomi M, Regnault B, Douangboubpha B, Karami Y, Chrétien D, Sanamxay D, Xayaphet V, Paphaphanh P, Lacoste V, Somlor S, Lakeomany K, Phommavanh N, Pérot P, Dehan O, Amara F, Donati F, Bigot T, Nilges M, Rey FA, van der Werf S, Brey PT, Eloit M. Bat coronaviruses related to SARS-CoV-2 and infectious for human cells. Nature. 2022 Apr;604(7905):330-336. doi: 10.1038/s41586-022-04532-4. Epub 2022 Feb 16. Erratum in: Nature. 2022 Jul;607(7920):E19. PMID: 35172323.*

2: *Bratuleanu B, Anita A, Temmam S, Dascalu A, Crivei L, Cozma A, Pourquier P, Savuta G, Eloit M, Anita D. Seroprevalence of Crimean-Congo Hemorrhagic Fever Among Small Ruminants from Southern Romania. Vector Borne Zoonotic Dis. 2022 Jul;22(7):397-401. doi: 10.1089/vbz.2021.0091. Epub 2022 Jun 30. PMID: 35772004.*

3: *Bratuleanu BE, Temmam S, Munier S, Chrétien D, Bigot T, van der Werf S, Savuta G, Eloit M. Detection of Phenuiviridae, Chuviridae Members, and a Novel Quaranjavirus in Hard Ticks From Danube Delta. Front Vet Sci. 2022 Apr 13;9:863814. doi: 10.3389/fvets.2022.863814. PMID: 35498749; PMCID: PMC9044029.*

4: *Bratuleanu BE, Temmam S, Chrétien D, Regnault B, Pérot P, Bouchier C, Bigot T, Savuta G, Eloit M. The virome of Rhipicephalus, Dermacentor and Haemaphysalis ticks from Eastern Romania includes novel viruses with potential relevance for public health. Transbound Emerg Dis. 2022 May;69(3):1387-1403. doi: 10.1111/tbed.14105. Epub 2021 Apr 27. PMID: 33840161.*

5: *Regnault B, Evrard B, Plu I, Dacheux L, Troadec E, Cozette P, Chrétien D, Duchesne M, Vallat JM, Jamet A, Leruez M, Pérot P, Bourhy H, Eloit M, Seilhean D. First Case of Lethal Encephalitis in Western Europe Due to European Bat Lyssavirus Type 1. Clin Infect Dis. 2022 Feb 11;74(3):461-466. doi: 10.1093/cid/ciab443. PMID: 33991184.*

b) International conferences:

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:

2022 was a catch up year to wrap in 12 months what should have been done in 2020 and 2021 and was not achieved because of the Covid-19 pandemic.