

La santé des écosystèmes comme contribution à l'approche "Une Seule Santé" (One Health) pour la santé des territoires

L'observatoire social-écologique biodiversité et santé de Saenthong

Serge Morand et coll.

















Maxomys surifer



Number of captures per country



4000

Number of captures per habitat (high)



ANNOTATED LIST OF SPECIES

Rattini

Nine genera, 27 species in Lao PDR.

Bandicota indica Greater Bandicoot Rat

CONSERVATION SIGNIFICANCE: Low (Globally Least Concern). DISTRIBUTION: Northern Northern Lao (one locality, GBIF), Central Northern Lao (three localities, CSIRO, CERoPath), Eastern Northern Lao (one locality, CSIRO), Western Northern Lao (one locality, CSIRO), Northern Lao Lowlands (five localities, GBIF, CSIRO, CERoPath), Central Lao Lowlands (one locality, CSIRO), Southern Lao Lowlands (one locality, CEROPath), Northern Annamites (one locality, CSIRO), Central Annamites (one locality, CSIRO). HABITATS: Grassy areas in upland conifer and broad-leaved forest (Marshall 1977). All kinds of cropland (rice field, corn, cassava, sugarcane), broad-leaved forest, fallow, orchard (CEROPath).

POPULATION STATUS AND TRENDS: Recorded from Phongsaly to Champasak. Probably present in all Tier 1 regions of Lao PDR. Locally observed in relatively high density in cropland (CER oPath).

TAXONOMY: First described by Bechstein (1800).

Bandicota indica





WILDLIFE IN LAO PDR

2023 STATUS REPORT



ORDER RODENTIA, SUPERFAMILY MUROIDEA



SERGE MORAND CNRS & Faculty of Tropical Medicine, Mahidol University (Thailand)

Changing landscapes of Southeast Asia and rodent-borne diseases: decreased diversity but increased transmission risks

SERGE MORAND,^{1,2,17} Kim Blasdell,³ Frédéric Bordes,⁴ Philippe Buchy,^{5,6} Bernard Carcy,⁷ Kittipong Chaisiri,² Yannick Chaval,⁸ Julien Claude,⁴ Jean-François Cosson,⁹ Marc Desquesnes,^{10,11} Sathaporn Jittapalapong,¹² Tawisa Jiyipong,^{10,13} Anamika Karnchanabanthoen,^{7,12} Pumhom Pornpan,^{10,14} Jean-Marc Rolain,¹³ and Annelise Tran^{15,16}







Linking changing landscape and Ro-Bo diseases



Increasing rodent-borne disease risks with agricultural extension and urbanisation

Ecol. Applicat. 2019



Observatoire social – écologique biodiversité et Santé de Saenthong



Social-ecological observatory of biodiversity & health of Saenthong (Nan, Thailand)

2008 - ongoing





	Studies (technical design)	Financial support	Date	Engagement
Technical Design	Rodent-borne zoonoses	ANR CERoPath, ANR BiodivHealthSEA	2008-2016	Animal ethics
	Tick-borne diseases	métaprogramme INRA	2014-2015	Animal ethics, ethics, consents
	Mosquito-borne diseases	FutureHealthSEA, MU Trop Med	2018-2021	Animal ethics, ethics, consents
***	Food-borne diseases	BiodivHealthSEA,FutureHealthSEA	2012-2021	Animal ethics, ethics, consents
	Antimicrobial resistance	ANR FarmResist	2018-2021	Animal ethics, ethics, consents
•••	Exposome pesticides,	FutureHealthSEA	2018-2021	Animal ethics, consents, community engagement
	Animal traditional pharmacopea	DIM Santé, IRD-Collège de France	2020-2021	Nagoya Protocol, community engagement
>	Microbiota	FutureHealthSEA, FarmResist, MU TropMed	2018-2020	Animal ethics, ethics, consents
	Rickettsial diseases	MOURU	2020-2021	Animal ethics, human ethics
	Dog & community health	ANR SEAdogSEA	2019-2021	Animal ethics

Biodiversity Information

Drivers

Spatial

Scale

Temporal



EPSG:32647 - WGS 84 / UTM zone 47N



В С Land cover % krc 19.20 -19.20 forest rubber 0 to 20 20 to 40 40 to 60 60 to 80 80 to 100 19.18 teak 19.18 orchard bamboo 19.16fallow gf 19.16 paddy rice rainfed rice Village 7 19.14 maize 19.14 fallow ginger 19.12 bare soil 19.12 urban water Orchard Paddy rice 19.10 Sub-district Sub-district 19.10 Village 2 Forest 19.08 -19.08 Village Village age 8 Village 1 100.62 100.64 100.66 100.68 100.70 100.72 100.74 100.76 100.78 100.80 100.82 100.62 100.64 100.66 100.68 100.70 100.72 100.74 100.76 100.78 100.80 100.82 Dim2 (23.1%) Urban Village 6 Soil los Е D Mean soil loss Gully index lowland 19.20 -19.20 0 to 200 200 to 400 400 to 600 (kg.m-2) upland 0 to 2 19.18 2 to 4 4 to 6 6 to 8 8 to 10 10 to 12 12 to 14 19.18 -Village 5 400 to 600 600 to 800 800 to 1,000 1,000 to 1,200 1,200 to 1,400 Bamboo 19.16 19.16 Corn Gully index 19.14 -19.1 か Rainfed rice -5.0 -19.1 19.12 -Rubber Sub-district Village Teak Sub-district Village 19.1 19.10 --Village 4 -3 -6 19.08 19.08 -3 Dim1 (48%)

100.62 100.64 100.66 100.68 100.70 100.72 100.74 100.76 100.78 100.80 100.82

Land use and soil erosion

100.62 100.64 100.66 100.68 100.70 100.72 100.74 100.76 100.78 100.80 100.82

A gradient





Biodiversity



Hsuanwien Chen



Michel de Garine Anamika Kittiyakan

-

Chuanphot Thinphovong



Domestics





Soundscape ecology







- 0.7 - 0.6 - 0.5 - 0.4 - 0.3 - 0.2 - 0.1

Retrovirus Viruses

LCMV

Cowpox



Niviventer ssp.



Berylmys ssp.

Maxomys ssp.

Protists Bacteria Helminths Hantavirus Leptospira Trypanosoma (30 species) Orientia Cryptosporidium Arenavirus Bartonella Toxoplasma

Bandicota ssp.

Arthropods Fleas lice, Chigger mites(40) ticks

Rattus ssp.



Babesia







1 2 3 4 5 6 7 8 9 10 11 12 13 14





9.15

19.13

19.11

6h00 Anthropophony

- 0.8 - 0.6

- 0.4 - 0.2



District Hospital

Parasitic infections in relation to practices and knowledge in a rural village in Northern Thailand with emphasis on fish-borne trematode infection

K. Chaisiri¹, C. Jollivet², P. Della Rossa^{2,3}, S. Sanguankiat¹, D. Wattanakulpanich¹,
C. Lajaunie⁴, A. Binot^{2,5}, M. Tanita⁶, S. Rattanapikul⁶, D. Sutdan⁷, S. Morand⁸ and A. Ribas⁹

Epidemiology and Infection



Intestinal parasites in rural communities in Nan Province, Thailand: changes in bacterial gut microbiota associated with minute intestinal fluke infection

Ajala Prommi¹, Pinidphon Prombutara^{2,3}, Dorn Watthanakulpanich¹, Poom Adisakwattana¹, Teera Kusolsuk¹, Tippayarat Yoonuan¹, Akkarin Poodeepiyasawat¹, Nirundorn Homsuwan¹, Samreong Prummongkol⁴, Malee Tanita⁵, Sungkhom Rattanapikul⁵, Chuanphot Thinphovong⁶, Anamika Kritiyakan⁶, Serge Morand^{1,6,7} ⁽¹⁾ and Kittipong Chaisiri¹ ⁽¹⁾



Parasitology



Chigger mites scrub typhus













Kittipong Chaisiri

Suchada Sumruayphol

Rawadee Kumlert

Stakeholder network







Risk factors analysis for neglected human rickettsioses in rural communities in Nan province, Thailand: A community-based observational study along a landscape gradient

Kittipong Chaisiri^{1*}, Ampai Tanganuchitcharnchai², Anamika Kritiyakan³, Chuanphot Thinphovong³, Malee Tanita⁴, Serge Morand^{1,3,5}, Stuart D. Blacksell^{2,6}*



Scrub typhus seropravalence







PLOS NEGLECTED TROPICAL DISEASES



FarmResist

Technical design



Protocols published in PLoS (2021)

Genetic / phenotypic / epidemiology 13/07/2020











Moxlist







Jean-Marc Markus Rolain Hilty

Anne Oppliger





Duangdao Visanu Thamlikitkul Sudatip

Anamika

Stakeholder network





Publication of protocols

Publication of results

A One Health approach to assessing occupational exposure to antimicrobial resistance in Thailand: The FarmResist project

Duangdao Sudatip^{1,2,3}, Kittipong Chasiri⁴, Anamika Kritiyakan⁵, Wantanee Phanprasit¹, Chuanphot Thinphovong⁴, Surapee Tiengrim⁶, Visanu Thamlikitkul⁷, Rim Abdallah⁸, Sophie Alexandra Baron⁸, Jean-Marc Rolain⁸, Serge Morand^{5,9}, Markus Hilty², Anne Oppliger³*



The risk of pig and chicken farming for carriage and transmission of *Escherichia coli* containing extended-spectrum beta-lactamase (ESBL) and mobile colistin resistance (*mcr*) genes in Thailand

MICROBIAL GENOMICS

Duangdao Sudatip^{1,2,3,4}†, Nadezda Mostacci²†, Surapee Tiengrim⁵, Visanu Thamlikitkul⁶, Kittipong Chasiri⁷, Anamika Kritiyakan⁶, Wantanee Phanprasit¹, Chuanphot Thinphovong⁵, Rim Abdallah⁸, Sophie Alexandra Baron⁸, Jean-Marc Rolain⁸, Serge Morand^{7,9}, Anne Oppliger³ and Markus Hilty^{2,*}





Technical design



Mosquitoes

ORIGINAL RESEARCH published: 17 October 2019 doi: 10.3389/fmicb.2019.02315





Monitoring Silent Spillovers Before Emergence: A Pilot Study at the Tick/Human Interface in Thailand

Sarah Temmam¹, Delphine Chrétien¹, Thomas Bigot^{1,2}, Evelyne Dufour³, Stéphane Petres³, Marc Desquesnes^{4,5,6}, Elodie Devillers⁷, Marine Dumarest¹, Léna Yousfi⁷, Sathaporn Jittapalapong⁸, Anamika Karnchanabanthoeng⁸, Kittipong Chaisiri⁹, Léa Gagnieur¹, Jean-François Cosson⁷, Muriel Vayssier-Taussat⁷, Serge Morand^{10,11}, Sara Moutailler⁷ and Marc Eloit^{1,12*}

High-Throughput Sequencing and Bioinformatics Analyses of Tick Virome

Illumina HiSeq2000

266 ticks from Village 6 (2012):

- Rhipicephalus sanguineus,
- Amblyomma sp.,
- Boophilus sp.,
- Dermacentor marginatus,
- Hyalomma sp. and
- Haemaphysalis sp

Flaviviridae-, Rhabdoviridae-, Chuviridae-, Phenuiviridae-, and Orthomyxoviridae-related viruses.





Identification of the Tembusu Virus in Mosquitoes in Northern Thailand

Rodolphe Hamel ^{1,2,3,*,†}, Ronald Enrique Morales Vargas ^{4,5,†}, Dora Murielle Rajonhson ⁴, Atsushi Yamanaka ⁶, Jiraporn Jaroenpool ^{7,8}, Sineewanlaya Wichit ^{2,3}, Dorothée Missé ¹, Anamika Kritiyakan⁹, Kittipong Chaisiri¹⁰, Serge Morand^{1,9,‡} and Julien Pompon^{1,‡}



Collection Site	Ae. bopi	al- ictus	A aeg	le. ypti	A	edes sp.	qui fa: t	Cx. nque- scia- us	Cx vipi	bre- alpis	C huto so	îx. chin- mi	C nig unct	x. rop- atus	Cu sj	lex 2.	C vish	x. nui	C trit niorh	x. tae- tynchu	Arm s s	igeres p.	Aı kes	rm. seli	Ar suba tu	m. 1lba- 1s	Anop sp	pheles p.	A subp	n. victus	Man sj	i <i>sonia</i> p.	Toxo	rhynchites sp.	Total
	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	ď	Ŷ	്	Ŷ	ď	ę	
Village 1	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	10	0	17	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	36
Village 2	0	2	0	0	0	0	1	5	0	1	0	1	0	0	1	8	1	8	0	0	0	1	0	2	0	0	0	0	0	1	0	0	0	0	32
Village 3	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	10	1	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	20
Village 4	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	96★	1	181	• 0	7	0	7	0	5	0	0	0	3	0	3	0	0	0	0	307
Village 5	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	19	0	19	0	0	0	1	0	4	0	1	0	0	0	0	0	0	0	0	47
Village 6	0	3	0	0	0	1	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Village 7	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
Village 8	1	3	0	2★	0	0	0	1	0	0	0	0	0	1	2	14	1	2	0	0	0	3	0	0	0	0	0	4	0	2	0	1	0	0	37
Forest session 1	0	15	0	0	0	3	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	6	0	1	0	0	0	0	0	0	0	0	29
Forest session 2	0	18	0	0	0	1	0	0	0	0	0	0	0	0	0	2★	0	0	0	0	0	5	0	4	0	0	0	0	0	0	0	0	0	0	30
Forest session 3	0	8	0	0	0	27★	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	4	0	0	0	0	0	0	0	0	0	1	46
Individuals	1	54	0	2	0	35	3	13	0	4	0	2	0	1	4	164	4	233	0	7	0	25	0	26	0	2	0	8	0	6	0	1	0	1	596
positive pools/Nbr of pool for each species	0/1	0/1	1 0	1 /1	0	1/8	0/2	0/6	0/1	0/2	0	0/2	0	0/1	0/3	2 /24	0/4	2 /24	0	0/1	0	0/8	0	0/7	0	0/2	0	0/3	0	0/3	0	0/1	0	0/1	6/116

Cx.



Ethics

Dogs **SEAdogSEA**

Questionnaires on owners' attitudes Molecular screening of Babesia spp., Ehrlichia spp, Hepatozoon spp., Bartonella spp.

Dog movement

DNA barcoding ticks, fleas Microbiome **GPS** collars

Technical design









Michel de Garine

Anan Phonphoem



Stakeholder network

Anamika





Khanh Bui

Chuanphot



Veterinary Parasitology: Regional Studies and Reports

Dog blood parasite infection in upland and lowland communities of northern Thailand: The role of environment and care of dog owners

Yossapong Paladsing ^a, Bui My Thuy Khanh ^b, Chuanphot Thinphovong ^a, Surapon Ketwang ^c, Kittipong Chaisiri ^d, Bernard Carcy ^e, Michel De Garine-Wichatitsky ^f, Serge Morand ^g, Tawin Inpankaew ^h, Anamika Kritiyakan ^{a,*}

Landscape effect plot 0.5 Probability of Babesia spp infection 0.4 0.3 0.2 0.1 upland forested area lowland agricultural urban Landscape type Bathe their dog Village 1 14% 79% Village 2 8% 92% Village 3 24% 76% Village 8 6% 94% Village 4 31% 69% Village 5 44% 56% Village 6 79% 21% Village 7 88% 12% 50 100 50 100 Percentage Response No Sometime Yes



Movements of dogs in Saenthong



Blood parasites



Epidemiology











Technical design



Chuanphot

Thinphovong





Pongchai Dumrongrojwatthana Tanaradee Khumya

Select 3 villages——Ban Huay Muang, Ban Huak, Ban Poh for Meeting

QGIS / Google Earth / R

Glyphosate exposure





Flavie Goutard

Villages (Muban)

(elected)



Stakeholder network



Anamika



Maps, Questionnaires, epidemiology



Participatory mapping

Crops	Glyphosate	Paraquat	Atrazine	Almix®	Butachlor	Cypermethrin	Abamectin
rice	X	X		X	X		X
corn	X	X	X				X
tobacco		X				X	
rambutan orchard	X	X					
longan orchard	X	X				X	
orange orchard	X						X
lychee orchard	X						
mango orchard	X						
rubber plantation	X	X					





Exposure to pesticides



Land use and soil erosion



Participatory mapping crops and pesticides



Animal exposure (AChE)



B. indica B. berdmorei M. surifer M. cookii R. andamanensis R. exulans R. tanezumi

Rodent species

Is rewilding (refaunation) following reforestation a health risk?





Sound recorders

area



Camera traps

Live trapping

STUDY PROTOCOL

A protocol and a data-based prediction to investigate virus spillover at the wildlife interface in human-dominated and protected habitats in Thailand: The Spillover Interface project

Chuanphot Thinphovong^{1*}, Ewan Nordstrom-Schuler¹, Pipat Soisook², Anamika Kritiyakan¹, Ronnakrit Chakngean³, Sakarin Prapruti⁴, Malee Tanita⁵, Yossapong Paladsing¹, Phurin Makaew¹, Awatsaya Pimsai², Abdulloh Samoh², Christophe Mahuzier⁶, Serge Morand^{1,7,8}, Kittipong Chaisiri⁸, Waraphon Phimpraphai⁹





PLOS ONE













Camera traps









From Protected Habitat to Agricultural Land: Dogs and Small Mammals Link Habitats in Northern Thailand

Chuanphot Thinphovong ¹, Anamika Kritiyakan ¹, Ronnakrit Chakngean ², Yossapong Paladsing ^{1,3}, Phurin Makaew ¹, Morgane Labadie ⁴, Christophe Mahuzier ⁵, Waraphon Phimpraphai ⁶, Serge Morand ^{7,*} and Kittipong Chaisiri ⁸













Research Exhition

The Saenthong Experience.

10 Years of Collaborative Projects on Biodiversity and Community Health



ขอเชิญเข้าร่วมงานนิทรรศการ

 10 ปี ความร่วมมืองานวิจัยสุขภาพและความเป็นอยู่ที่ดีในตำบลแสนทอง
 "ร่วมเรียนรู้ อนุรักษ์ และพัฒนาอย่างยั่งยืน" The Saenthong Experience.
 10 Years of Collaborative Projects on Biodiversity and Community Health.

> วันที่ 4-5 สิงหาคม 2565 ณ หอประชุม ที่ว่าการอำเภอท่าวังผา อำเภอท่าวังผา จังหวัดน่าน

Health and Well-being Animal Health and Sustainable Agriculture Conservation and Tourism

(*)



Inserm









10 ปี ความร่วมมืองานวิจัยสุขภาพและความเป็นอยู่ที่ดีในตำบลแสนทอง **"ร่วมเรียนรู้ อนุรักษ์ และพัฒนาอย่างยั่งยืน"** The Saenthong Experience. 10 Years of Collaborative Projects on Biodiversity and Community Health.

> วันที่ 4-5 สิงหาคม 2565 ณ หอประชุม ที่ว่าการอำเภอท่าวังผา อำเภอท่าวังผา จังหวัดน่าน

> > Inserm -M

Research Exhition The Saenthong Experience. 10 Years of Collaborative Projects on Biodiversity and Community Health

Health and Animal Health and Environment Well-being Sustainable Agriculture Conservation and Tourism











A Social-Ecological and One Health Observatory: Ten Years of Collaborative Studies in Saen Thong (Nan, Thailand)

This One Health case reports ten years of collaborative projects between researchers of several institutions of France and Thailand and local communities, local authorities and administrations in Saen Thong sub-district (Nan Province, Thailand). Saen Thong's experience recognizes the role of the primary care unit (PCU) as a boundary spinner and the importance of ethics at the core of the community engagement.

Authors: Kittipong Chaisiri¹, Anamika Kritiyakan², Rawadee Kumlert³, Claire Lajaunie⁴, Purin Makaew¹, Serge Morand⁵, Yossapong Paladsing², Malee Tanita⁶, and Chuanphot Thinphovong¹









Reducing pandemic risks at source

Wildlife, environment and One Health foundations in East and South Asia



A One Health prevention at the source

One Health High Level Expert Panel (OHHLEP)

In November 2020 at the Paris Peace Forum FAO, OIE, UNEP and WHO create a multidisciplinary One Health High-Level Expert Panel (OHHLEP) with the support of **France** and **Germany**

Co-chairs



Professor, Centre for Viral Zoonoses, University of Pretoria, South Africa

Wanda Markotter

Learn more >



Thomas Mettenleiter

President of the Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Germany

Learn more >



Food and Agriculture Organization of the United Nations







Professor in Health Policy, University of Director of Veterinary Laboratories Indonesia, Indonesia Division, Abu Dhabi Agriculture and Food Safety Authority, United Arab Emirates Casey Barton-Behravesh > Pépé Bilivogui > Personal capacity, United States of Technical Consultant, Project REDISSE America (World Bank/OOAS), Guinea Salome Bukachi 3 Natalia Casas 3 Associate Professor, Institute of National Zoonoses Coordinator, Ministry Anthropology, University of Nairobi, of Health of Argentina, Argentina Kenya Abhishek Chaudhary > Natalia Cediel Becerra > Lecturer and researcher, Universidad de Assistant Professor, Dept. of Civil la Salle Bogotà, Colombia Engineering, Indian Institute of Technology (IIT) Kanpur, India Janice Clacci-Zanella) Andrew Alexander Cunningham > Veterinarian researcher in the area of Deputy Director of Science, Zoological Animal Virology and Director General of Society of London, United Kingdom of Swine and Poultry Research Center Great Britain and Northern Ireland EMBRAPA, Brazil Nitish Debnath 3 Osman Dar > Team Lead, Fleming Fund Country Grant Consultant in Global Public Health, to Bangladesh, DAI Global, LLC -Public Health England / Director - One National Coordinator One Health Health Project, Chatham House, Royal Bangladesh, Bangladesh Institute of International Affairs, United Kingdom of Great Britain and Northern Ireland, Pakistan Elmoubasher Farag > Senior Infectious Disease Epidemiologist, Head of Communicable Baptiste Dungu Diseases Control Programs, Director-Chief Executive Officer, Onderstepoort One Health Projects, Qatar Ministry of Biological Products SOC (OBP), South Public Health (MOPH), Sudan Africa, Democratic Republic of the Congo David Hayman > George Fu Gao > Professor of Infectious Disease Ecology Director-General, Chinese Center for Massey University, New Zealand Disease Control and Prevention, People's Republic of China Professor Marion Koopmans > Margaret Khaitsa > Director of the WHO Collaborating Professor of International Veterinary Centre for emerging infectious diseases Epidemiology, Mississippi State at Erasmus Medical Centre, Netherlands University, Uganda Professor John S. Mackenzie > Catherine Machalaba Emeritus Professor, Curtin University, Senior Policy Advisor and Senior Perth, Australia Scientist, EcoHealth Alliance, United States of America Vyacheslav Smolenskiy > Deputy Head, Russian Federal Service Serge Morand > for Surveillance on Consumer Rights Director of Research, CNRS, Montpellier Protection and Human Wellbeing, University, France Russian Federation Lei Zhou >

Wiku Bakti Adisasmito



Salama Al Muhairi 2









Lei Zhou > Chief of Branch for Emerging Infectious Disease, China CDC, People's Republic of China



1. A definition of the One Health approach



2. A definition of prevention of zoonotic spillover to humans

PREVENTION OF ZOONOTIC SPILLOVER

ONE HEALTH HIGH-LEVEL EXPERT PANEL

FROM RELYING ON RESPONSE TO REDUCING THE RISK AT SOURCE OHHLEP whitepaper/Opinion piece



OHHLEP Term 2

26 members (13 from Term 1)

First meeting: April 2024

Dr Yewanda Alimi > One Health Unit Lead, the Africa Centers for Disease Control

Professor Salome Bukachi > Associate Professor of Anthropology, at the Institute of Anthropology, Gender and African

Studies, University of Nairobi, Nairobi, Kenya

Professor Natalia Cediel > Associate Professor and Researcher, Universidad de La Salle, Colombia

Professor Rungtip Chuanchuen >

Professor at the Department of Veterinary Public Health, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, Thailand

Dr Osman Dar >

Consultant in Global Public Health, Public Health England / Director - One Health Project, Chatham House, Royal Institute of International Affairs, United Kingdom of Great Britain and Northern Ireland, Pakistan

Dr Casey Barton Behravesh > Director of the One Health Office at the U.S. Centers for Disease Control and Prevention (CDC)

Professor Gian Luca Burci > Senior Visiting Professor of International Law at the University of Geneva, Switzerland

Dr Dominique Charron > Visiting Professor, One Health Institute, University of Guelph, Canada





Chief Scientist of the European Food Safety Authority (EFSA) in Parma, Italy





Dr Chris Degeling > Australian Centre for Health Engagement, Evidence and Values, University of Wollongong

Professor Elmoubasher Farag > Senior Infectious Disease Epidemiologist, Head

of Communicable Diseases Control Programs, Director-One Health Projects, Qatar Ministry of Public Health (MOPH)



Dr Hugo Mantilla-Meluk > Professor of Evolution, Sustainable Development and One Health, Biology Program, Universidad del Quindío, Colombia, and the Founder and Director of the Centro de Estudios de Alta Montaña

Professor Thomas Mettenleiter > President (retired) of the Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Germany

Dr Salama Al Muhairi > Manager of Research and Development at the National Emergency Crisis and Disaster Management Authority, United Arab Emirates

Dr Hung Nguyen-Viet > Co-Leader of Animal and Human Heath Program at the International Livestock **Research Institute**

Dr Abel Wilson Walekhwa > Senior Epidemiologist at the Science, Technology, and Innovation Secretariat. Office of the President, Kampala, Uganda

Professor Ryan Blake Williams > Associate Professor of Economics & Public Policy, School of Veterinary Medicine, Texas Tech University, USA

Professor Jakob Zinsstag > Deputy Head of the Department of Epidemiology and Public Health, Swiss Tropical and Public Health Institute, Basel, Switzerland

Professor Nitish Debnath >

Team Lead, Fleming Fund Country Grant to Bangladesh, DAI Global, LLC - National Coordinator One Health Bangladesh, Bangladesh



Professor of Medicine at the Institute for Health Sciences, Kunming Medical University, Kunming, China



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Public Health Specialist and One Health and Zoonotic Diseases Specialist, Johns Hopkins Center for Health Security and Georgetown University's Center for Global Health Science and Security





Professor Wanda Markotter >

Dr Catherine Machalaba >

EcoHealth Alliance, USA

Director, Centre for Viral Zoonoses, Department of Medical Virology, Faculty of Health Sciences, University of Pretoria, South Africa



Professor Serge Morand > Director of Research, CNRS, Montpellier University, France

Ms Natiela Beatriz de Oliveira >

Specialist in the One Health Technical Group, General Coordination of Surveillance of Zoonosis and Vector-borne Diseases, Department of Communicable Diseases, Ministry of Health, Brazil

Professor Maxine A. Whittaker >



Public Health Physician, Medical Anthropologist and Health Systems Researcher and Director of the WHO Collaborating Centre for Vector Borne and Neglected Tropical



Disease

Chief Scientist of Parasitic Disease Control at the Chinese Center for Disease Control, and the Director of the WHO Collaborating Centre for Tropical Diseases, China

















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Our health depends on the health of our planet





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Preventing zoonotic disease emergence





Pillar 5 – Stakeholders engagement / co-development of health networks and policies

Result 1 Stakeholders at local level understand the risks and implement actions to prevent them

Result 2 Stakeholders implement the health and biodiversity policies they have co-developed

Result 3 A real time One Health surveillance system based on user needs is operational at all levels

Result 4 The science-society-policy dialog is strong and permanent to define relevant health management strategies













University

