

# OIE Collaborating Centres Reports Activities

## *Activities in 2021*

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<b>Title of collaborating centre:</b>	Economics of Animal Health
<b>Address of Collaborating Centre:</b>	Centre of Excellence for Sustainable Food Systems Global Burden of Animal Diseases Programme Institute of Infection Veterinary and Ecological Sciences Liverpool UNITED KINGDOM
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<b>Name of Director of Institute (Responsible Official):</b>	Jonathan Rushton
<b>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</b>	Jonathan Rushton
<b>Name of writer:</b>	Prof Jonathan Rushton and Dr Ben Huntington

**ToR: To provide services to the OIE, in particular within the region, in the designated specialty, in support of the implementation of OIE policies and, where required, seek for collaboration with OIE Reference Laboratories**

**ToR: To identify and maintain existing expertise, in particular within its region**

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

Other (Name the category)	
Title of activity	Scope
Global Burden of Animal Diseases	Co-leading the Global Burden of Animal Diseases programme with the OIE
Mitigating animal disease threats through sustainable laboratories biosafety and biosecurity	Economic expertise in investing in sustainable laboratories biosafety and biosecurity

**ToR : To propose or develop methods and procedures that facilitate harmonisation of international standards and guidelines applicable to the designated specialty**

**2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the surveillance and control of animal diseases, food safety or animal welfare**

Proposal title	Scope/Content	Applicable area
GBADs methods	developing methods for systematic use of economics of animal health methods to determine baseline burdens of animal diseases	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input checked="" type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare
Netherlands case study	Testing GBADs methods in dairy production system in the Netherlands, carried out by Collaborating Centre partner, University of Utrecht	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input checked="" type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare
Norway case study	Testing GBADs methods in salmon production system in Norway, carried out by Collaborating Centre partner, Norwegian Veterinary Institute	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input checked="" type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare

**ToR: To establish and maintain a network with other OIE Collaborating Centres**

**designated for the same specialty, and should the need arise, with Collaborating Centres in other disciplines**

**ToR: To carry out and/or coordinate scientific and technical studies in collaboration with other centres, laboratories or organisations**

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

No

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

Yes

Name of OIE CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Pirbright Institute	UK	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	Exploring how reference laboratory data from submitted samples and research can be used by the Global Burden of Animal Diseases programme to attribute burden to specific hazards
Emerging Aquatic Animal Diseases, Cefas	UK	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	Exploring the use of the GBADs method in farmed fish, joint bid for EU H2020 funding
Institute for Infectious Animal Diseases, Texas A&M	USA	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East	1. Collaboration on OIE sustainable laboratory project.  2. Successful bid for - assessing laboratory diagnostics and point of care tests in the face of an outbreak in the USA. UoL input - economic assessment of a policy change.

**ToR: To place expert consultants at the disposal of the OIE.**

**5. Did your Collaborating Centre place expert consultants at the disposal of the OIE?**

Yes

Name of expert	Kind of consultancy	Subject
Jonathan Rushton	Advice	The use of economics in animal health; leadership of global initiative to implement systematic approach to estimation of burden of animal diseases
Ben Huntington	Advice	Support for existing OIE programmes to link with GBADs
William Gilbert	Advice	Technical support for disease burden estimates
Marie McIntyre	Advice	Technical support for data ecosystem mapping
Wilma Steenveld	Advice	Demonstrating applicability of GBADs methods to dairy cattle in the Netherlands, including the establishment of a data sharing relationship with Royal GD.
Johannes Charlier	Advice	Demonstrating applicability of GBADs methods to dairy cattle in the Netherlands.
Jean-Baptiste Hanon	Advice	Demonstrating applicability of GBADs methods to dairy cattle in the Netherlands.
Paul Valle Steinar	Advice	Demonstrating applicability of GBADs methods to salmon in Norway

***ToR: To provide, within the designated specialty, scientific and technical training to personnel from OIE Member Countries***

**6. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by the OIE, to personnel from OIE Member Countries?**

Yes

- a) Technical visits: 0
- b) Seminars: 1
- c) Hands-on training courses: 0
- 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	technical training in economics for Ethiopian Ministry of Agriculture	Ethiopia	6

***ToR: To organise and participate in scientific meetings and other activities on behalf of the OIE***

**7. Did your Collaborating Centre organise or participate in the organisation of scientific meetings on behalf of the OIE?**

Yes

National/International	Title of event	Co-organiser	Date (mm/yy)	Location	No. Participants
International	GBADs launch webinar	UoL/OIE	01/21	virtual	301
International	Ethiopia case study launch and stakeholder engagement	UoL/OIE	03/21	in person and virtual	45
International	GBADs Annual meeting	UoL/OIE	09/21	virtual	77
International	16th Conference of the OIE Regional Commission for the Middle East	UoL/OIE	11/21	virtual	25

***ToR: To collect, process, analyse, publish and disseminate data and information relevant to the designated specialty***

#### **8. Publication and dissemination of any information within the remit of the mandate given by the OIE that may be useful to Member Countries of the OIE**

a) Articles published in peer-reviewed journals: 6

Rushton, J., B. J. McMahon, M. E. Wilson, J. A. K. Mazet, and B. Shankar. 2021. A Food System Paradigm Shift: From Cheap Food at Any Cost to Food within a One Health Framework. NAM Perspectives. Commentary, National Academy of Medicine, Washington, DC. <https://doi.org/10.31478/202111b>.

Afonso JS, Oikonomou G, Carter S, Clough HE, Griffiths BE and Rushton J (2021) Diagnosis of Bovine Digital Dermatitis: Exploring the Usefulness of Indirect ELISA. *Front. Vet. Sci.* 8:728691. doi: 10.3389/fvets.2021.728691

Huntington, B., Bernardo, T.M., Bruce, M., Devleeschauwer, B., Gilbert, W., Havelaar, A., Herrero, M., Marsh, T.L., Mesenhowski, S., Pendell, D., Pigott, D., Grace Randolph, D., Bondad-Reantaso, M., Shaw, APM, Stacey, D., Stone, M., Torgerson, P., Watkins, K., Wieland, B., & Rushton, J. (2021) Global Burden of Animal Disease: a novel approach to understanding and managing disease in livestock and aquaculture. Why is it needed, what is its theoretical basis and what will it contribute? *OIE Rev Tech Sci* 40 (2) pp 567-584

Patterson GE, McIntyre KM, Clough HE and Rushton J (2021) Societal Impacts of Pandemics: Comparing COVID-19 With History to Focus Our Response. *Front. Public Health* 9:630449. doi: 10.3389/fpubh.2021.630449

Clough HE, McIntyre KM, Patterson GE, Rushton, J. (2021) Use of routine death and illness surveillance data to provide insight for UK pandemic planning: lessons from COVID-19. *BMJ Open* 2021;11:e044707. doi:10.1136/bmjopen-2020-044707

J Rushton, B Huntington, W Gilbert, M Herrero, P R Torgerson, A P M Shaw, M Bruce, T L Marsh, D L Pendell, T M Bernardo, D Stacey, D Grace, K Watkins, M Bondad-Reantaso, B Devleeschauwer, D M Pigott, M Stone, S Mesenhowski (2021) Roll-out of the Global Burden of Animal Diseases programme *The Lancet* Published: February 04, 2021 [https://doi.org/10.1016/S0140-6736\(21\)00189-6](https://doi.org/10.1016/S0140-6736(21)00189-6)

b) International conferences: 3

OIE General Session, May 2021 - presenting the collaborating centre to the Regional Commission for Europe

DISCONTTOOLS symposium keynote, Oct 2021 - use of quantitative and qualitative information for disease

intervention prioritisation

PANVET conference keynote, Nov 2021 - the use of economics in animal health and the Global Burden of Animal Diseases programme

c) National conferences: 2

Animal Health Canada Annual Forum, Oct and Nov 2021 - Global Burden of Animal Diseases

GBADs workshop for Norwegian government and producers, Nov 2021

d) Other

(Provide website address or link to appropriate information): 0

### **9. Additional comments regarding your report:**

Collaborating Centre was initiated in June 2021 after approval at the OIE General Session in May 2021