

# OIE Collaborating Centres Reports Activities

## *Activities in 2018*

**This report has been submitted : 2019-02-04 22:19:00**

<b>Title of collaborating centre:</b>	Veterinary Drug Regulatory Programmes
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<b>Name of Director of Institute (Responsible Official):</b>	Dr. Steven Solomon
<b>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</b>	Dr. Bettye Walters, Director, International Programs and Outreach
<b>Name of writer:</b>	Jon Scheid

**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**

Veterinary medicinal products	
Title of activity	Scope
OIE Focal Points Training, Bangkok, Thailand	5th Cycle, Asian countries; included 3 of 4 OIE Collaborating Centers for VMPs were present at seminar.

**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
Antiparasitic resistance: Challenges, Awareness, and Change	Information about the development of resistance to antiparasitic drugs	<input type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input checked="" type="checkbox"/> Animal welfare
Commitment to VICH, Revision of Anthelmintics Efficacy Guidelines	Changes to guidelines on efficacy of anthelmintics	<input type="checkbox"/> Surveillance and control of animal diseases <input 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?**

No

**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
Aimee Phillippi-Taylor	Scientific training	Antiparasitic resistance
Bettye Walters	Presentations	VICH General Principles
Bettye Walters	Presentations	Update on VICH Outreach Forum Activities and 2019 Public Conference
Bettye Walters	Plenary Sessions	Good Governance
Bettye Walters	Plenary Session	Antiparasitic Resistance
Bettye Walters	Working Group Leader	Antimicrobial Use Collection using OIE's Template

**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: 3
- 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	Awareness of antiparasitic resistance	United States	25

b	Antelminitics guidelines were revised	United States	25
b	Discussion of VICH General Principles, update on Outreach Forum Activities.	United States	

***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
Internation	Focal Points Regional Training Seminar	Japan JMAFF; France's ANSES	17023 March 2018	Bangkok, Thailand	75

***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: 20

Beier, R. C., R. B. Harvey, C. A. Hernandez, M. E. Hume, K. Andrews, R. E. Droleskey, M. K. Davidson, S. Bodeis-Jones, S. Young, S. E. Duke, R. C. Anderson, T. L. Crippen, T. L. Poole, and D. J. Nisbet. "Interactions of Organic Acids with Campylobacter Coli from Swine." PLOS ONE 13, no. 8 (2018): e0202100. <http://dx.doi.org/10.1371/journal.pone.0202100>.

Buchweitz, J. P., M. Johnson, J. L. Jones, and A. F. Lehner. "Development of a Quantitative Gas Chromatography-Tandem Mass Spectrometry Method for the Determination of Pentobarbital in Dog Food." J Agric Food Chem 66, no. 42 (Oct 24 2018): 11166-69. <http://dx.doi.org/10.1021/acs.jafc.8b04178>.

Carter, L., H. R. Chase, C. M. Gieseke, N. R. Hasbrouck, C. B. Stine, A. Khan, L. J. Ewing-Peeples, B. D. Tall, and G. R. Gopinath. "Analysis of Enterotoxigenic Bacillus Cereus Strains from Dried Foods Using Whole Genome Sequencing, Multi-Locus Sequence Analysis and Toxin Gene Prevalence and Distribution Using Endpoint PCR Analysis." International journal of food microbiology 284 (2018): 31-39.

Domesle, K. J., Q. Yang, T. S. Hammack, and B. Ge. "Validation of a Salmonella Loop-Mediated Isothermal Amplification Assay in Animal Food." Int J Food Microbiol 264 (Jan 2 2018): 63-76. <http://dx.doi.org/10.1016/j.ijfoodmicro.2017.10.020>.

Jones, J. L., D. S. Rotstein, O. Ceric, S. M. Nemser, and R. Reimschuessel. "Information for Veterinarians on Reporting Suspected Animal Food Issues." J Am Vet Med Assoc 253, no. 5 (Sep 1 2018): 550-53. <http://dx.doi.org/10.2460/javma.253.5.550>.

Liu, Z., R. Screven, L. Boxer, M. J. Myers, and L. R. Devireddy. "Characterization of Canine Adipose-Derived Mesenchymal Stromal/Stem Cells in Serum-Free Medium." *Tissue Eng Part C Methods* 24, no. 7 (Jul 2018): 399-411. <http://dx.doi.org/10.1089/ten.TEC.2017.0409>.

Myers, M. J., M. Martinez, F. Li, K. Howard, H. F. Yancy, L. Troutman, and M. Sharkey. "Impact of Abcb 1 Genotype in Collies on the Pharmacokinetics of R-and S-Fexofenadine." *Journal of veterinary pharmacology and therapeutics* (2018).

Nguyen, M., S. W. Long, P. F. McDermott, R. J. Olsen, R. Olson, R. L. Stevens, G. H. Tyson, S. Zhao, and J. J. Davis. "Using Machine Learning to Predict Antimicrobial Minimum Inhibitory Concentrations and Associated Genomic Features for Nontyphoidal Salmonella." *J Clin Microbiol* (Oct 17 2018). <http://dx.doi.org/10.1128/JCM.01260-18>.

Simjee, S., P. McDermott, D. J. Trott, and R. Chuanchuen. "Present and Future Surveillance of Antimicrobial Resistance in Animals: Principles and Practices." *Microbiol Spectr* 6, no. 4 (Jul 2018). <http://dx.doi.org/10.1128/microbiolspec.ARBA-0028-2017>.

Stine, C. B., C. Li, T. C. Crosby, N. R. Hasbrouck, C. Lam, and D. A. Tadesse. "Draft Whole-Genome Sequences of *Chryseobacterium piscicola* and *Chryseobacterium shigense*." *Genome Announc* 6, no. 20 (May 17 2018): e00413-18. <http://dx.doi.org/10.1128/genomeA.00413-18>.

Tadesse, D. A., C. Li, S. Mukherjee, C. H. Hsu, S. Bodeis Jones, S. A. Gaines, C. Kabera, G. H. Loneragan, M. Torrence, D. M. Harhay, P. F. McDermott, and S. Zhao. "Whole-Genome Sequence Analysis of Ctx-M Containing *Escherichia coli* Isolates from Retail Meats and Cattle in the United States." *Microb Drug Resist* 24, no. 7 (Sep 2018): 939-48. <http://dx.doi.org/10.1089/mdr.2018.0206>.

Tadesse, D. A., M. Hoffmann, S. Sarria, C. Lam, E. Brown, M. Allard, and P. F. McDermott. "Complete Genome Sequences of 14 *Salmonella enterica* Serovar Enteritidis Strains Recovered from Human Clinical Cases between 1949 and 1995 in the United States." *Genome Announcements* 6, no. 1 (2018): e01406-17.

Tyson, G. H., S. Bodeis-Jones, H. Caidi, K. Cook, U. Dessai, J. Haro, A. E. McCullough, J. Meng, C. A. Morales, J. P. Lawrence, G. E. Tillman, A. Winslow, and R. A. Miller. "Proposed Epidemiological Cutoff Values for Ceftriaxone, Cefepime, and Colistin in *Salmonella*." *Foodborne Pathog Dis* 15, no. 11 (Nov 2018): 701-04. <http://dx.doi.org/10.1089/fpd.2018.2490>.

Tyson, G. H., J. L. Sabo, C. Rice-Trujillo, J. Hernandez, and P. F. McDermott. "Whole-Genome Sequencing Based Characterization of Antimicrobial Resistance in *Enterococcus*." *Pathog Dis* 76, no. 2 (Mar 1 2018). <http://dx.doi.org/10.1093/femspd/fty018>.

Volokhov, D. V., M. Amselle, S. Bodeis-Jones, P. Delmonte, S. Zhang, M. K. Davidson, F. M. Gulland, and V. E. Chizhikov. "*Neisseria zalophi* sp. nov., Isolated from Oral Cavity of California Sea Lions (*Zalophus californianus*)." *Arch Microbiol* 200, no. 5 (Jul 2018): 819-28. <http://dx.doi.org/10.1007/s00203-018-1499-x>.

Whitehouse, C. A., S. Zhao, and H. Tate. "Antimicrobial Resistance in *Campylobacter* Species: Mechanisms and Genomic Epidemiology." *Adv Appl Microbiol* 103 (2018): 1-47. <http://dx.doi.org/10.1016/bs.aambs.2018.01.001>.

Whitehouse, C. A., S. Young, C. Li, C.-H. Hsu, G. Martin, and S. Zhao. "Use of Whole-Genome Sequencing for *Campylobacter* Surveillance from Narms Retail Poultry in the United States in 2015." *Food microbiology* 73 (2018): 122-28.

Yang, Q., K. J. Domesle, and B. Ge. "Loop-Mediated Isothermal Amplification for *Salmonella* Detection in Food and Feed: Current Applications and Future Directions." *Foodborne Pathog Dis* 15, no. 6 (Jun 2018): 309-31. <http://dx.doi.org/10.1089/fpd.2018.2445>.

Yang, Z., M. Mammel, C. Whitehouse, D. Ngo, and M. Kulka. "Inter- and Intra-Host Nucleotide Variations in Hepatitis A Virus in Culture and Clinical Samples Detected by Next-Generation Sequencing." *Viruses* 10, no. 11 (2018): 619.

Zhao, S., S. Mukherjee, C. Li, S. B. Jones, S. Young, and P. F. McDermott. "Cloning and Expression of Novel Aminoglycoside Phosphotransferase Genes from *Campylobacter* and Their Role in the Resistance to Six Aminoglycosides." *Antimicrobial Agents and Chemotherapy* 62, no. 1 (2018): e01682-17. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5740324/pdf/e01682-17.pdf>.

b) International conferences: 0

c) National conferences: 0

d) Other

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