OIE Collaborating Centers Reports Activities

Activities in 2014

This report has been submitted: 2015-04-02 17:46:35

<table>
<thead>
<tr>
<th><strong>Title of collaborating centre:</strong></th>
<th>Veterinary Epidemiology and Public Health</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address of Collaborating Centre:</strong></td>
<td>EpiCentre P/Bag 11 222 Palmerston North 4442 NEW ZEALAND</td>
</tr>
<tr>
<td><strong>Tel.:</strong></td>
<td>+64-6 35.05.195</td>
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<tr>
<td><strong>Fax:</strong></td>
<td></td>
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<tr>
<td><strong>E-mail address:</strong></td>
<td><a href="mailto:T.E.Carpenter@massey.ac.nz">T.E.Carpenter@massey.ac.nz</a></td>
</tr>
<tr>
<td><strong>Website:</strong></td>
<td>epicentre.massey.ac.nz</td>
</tr>
<tr>
<td><strong>Name of Director of Institute (Responsible Official):</strong></td>
<td>Professor Paul Kenyon</td>
</tr>
<tr>
<td><strong>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</strong></td>
<td>Professor Tim Carpenter</td>
</tr>
<tr>
<td><strong>Name of writer:</strong></td>
<td>Professor Tim Carpenter</td>
</tr>
</tbody>
</table>
**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

<table>
<thead>
<tr>
<th>Disease control</th>
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</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>National Epidemiological Investigation Plan and Performance Scheme in Major Animal Diseases in China</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Epidemiology, surveillance, risk assessment, modelling</th>
</tr>
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<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>&quot;Knowledge, attitude, believe and practice&quot; (KABP) study on Brucellosis in countryside, Inner Mongolia, Jilin, Beijing, China.</td>
</tr>
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<tr>
<th>Training, capacity building</th>
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<tbody>
<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>China Field Epidemiology Training for Veterinaries, all over China.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Proposal title</th>
<th>Scope/Content</th>
<th>Applicable area</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Epidemiological Investigation Plan and Performance Scheme in Major Animal Diseases in China</td>
<td>Drafted the plan</td>
<td>☐Surveillance and control of animal diseases  ☐Food safety  ☐Animal welfare</td>
</tr>
</tbody>
</table>
**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?

Yes

<table>
<thead>
<tr>
<th>Name of OIE CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instituto Zooprofilattico Sperimentale della Venezia</td>
<td>Venice, Italy</td>
<td>Africa, Americas, Asia and Pacific, Europe, Middle East</td>
<td>Delivered an OIE training course of GIS management and spatial analysis in veterinary public health</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name of expert</th>
<th>Kind of consultancy</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Carpenter</td>
<td>Develop Activity Design Document to obtain funding from the New Zealand Ministry of Foreign Affairs for OIE.</td>
<td>Foot-and-mouth disease control in Southeast Asia</td>
</tr>
</tbody>
</table>

**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: 0
c) Hands-on training courses: 10
d) Internships (>1 month): 0

<table>
<thead>
<tr>
<th>Type of technical training provided (a, b, c or d)</th>
<th>Content</th>
<th>Country of origin of the expert(s) provided with training</th>
<th>No. participants from the corresponding country</th>
</tr>
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<tbody>
<tr>
<td>c Presented a workshop entitled, “Analysis of time-to-event (survival) data” – Mar. 4-8, 2014; presented in Palmerston North, New Zealand</td>
<td>Chile (1); China (1); France (1); Japan (1); Netherlands (1); Lebanon (1); New Zealand (11); Republic of Korea (2); Saudi Arabia (1); South Africa (1); United Kingdom (1); USA (1); Zambia (2)</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

**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?

No

**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: 70


Clark, G and Rosanowski, S. 2014. Modeling the spread of bacterial disease, New Zealand Kiwifruit Journal


Irshad, H., Cookson, A., Prattley, D.J., Dufour, M., & French, N.P. 2014. Distribution of Escherichia coli strains harbouring Shiga toxin-producing E. coli (STEC)-associated virulence factors (stx1, stx2, eae, ehxA) from very young calves in the North Island of New Zealand. Epidemiology and Infection. doi: http://dx.doi.org/10.1017/S0950268814000089


Preziuso, S., Pinho, M.D., Attili, A.R., Melo-Cristino, J., Acke, E., Midwinter, A.C., Cuteri, V., Ramirez, M. 2014. PCR based differentiation between Streptococcus dysgalactiae subsp. equisimilis strains isolated from humans and horses. Comparative Immunology, Microbiology and Infectious Diseases. doi: http://dx.doi.org/10.1016/j.cimid.2014.04.001


Van Wormer, E, P Singh, WW Wallender, K Shapiro, PA Conrad, J Largier, JAK Mazet, TE Carpenter. Changing land use and precipitation patterns drive land to sea pathogen pollution, PLOS Neglected Tropical Diseases, in press.


Yi Zhang, XuejingGuo, Juan Qi, et al. 2014. Complete Genome Sequence of an H9N2 Influenza Virus Lethal to Chickens. Genome Announcements, 2: e00929-14.


b) International conferences: 12
Tim Carpenter – Invited presentation entitled, “The use of cost-benefit analysis in animal disease control, including practical examples from the region,” to the OIE sponsored 28th Conference of the OIE Regional Commission for Asia, the Far East and Oceania, Cebu, Philippines, 19 Nov., 2014.


Cord Heuer delivered a half-day workshop at the annual conference of the Society for Veterinary Epidemiology and Preventive Medicine:


Zhang Yi- Invited presentation entitled, “AIV Animal Infections and Surveillance in China” to the LinkTADs Epidemiology Workshop, 14 April, 2014, Shanghai, China.

Li Yin- Invited presentation entitled, “The role of live poultry movement and live bird market biosecurity in the epidemiology of influenza A (H7N9)” to the OIE reference lab for NDV sponsored Symposium on Newcastle Disease and Peste des Petits Ruminants, 6th November 2014, Qingdao, Shandong, China.

Nigel French – Invasive Salmonella in Africa Consensus Meeting 2014’ that will be held at the Malawi Liverpool Wellcome Trust Clinical Research Programme (MLW), in Blantyre, Malawi 18-19 November 2014.

Nigel French – Invitation to the Campylobacter and Salmonella source attribution workshop in Canberra, 8-9 December 2014 at Food Standards Australia New Zealand, Barton, ACT

Nigel French – DLT Smith Lecture, University of Saskatchewan, Saskatoon, Canada. Controlling zoonoses: how advances in microbial genetics and evolutionary biology and modelling are transforming epidemiology and public health, 2014

Nigel French – Center for Disease Control, Atlanta, USA. Enteric zoonoses: how advances in microbial genetics, evolutionary biology and modelling are contributing to their control in New Zealand, 2014

c) National conferences: 14
Sarah Rosanowski – Oral presentation entitled “Open Standing Castration in Racehorses in Hong Kong (2007 to 2012)” at the New Zealand Veterinary Association Conference, 19th June 2014, New Zealand


Cord Heuer was invited by Beef&Lamb NZ to deliver a presentation about “Johne’s disease in mixed species farming systems” at a farmer information day “B+LNZ AgInnovation”, to dry stock farmers on 12 May 2014 at Mansfield Park, Fielding, New Zealand

Cord Heuer was invited by Zoetis to deliver an “Update on latest research on sheep leptospirosis in NZ with regard to disease and production effects and occupational safety and health” to industry representatives on Thursday 15 May 2014 at the Coachman Hotel, Palmerston North, New Zealand.
Cord Heuer was invited by the Vet Club Rotorua to deliver a presentation about leptospirosis in humans and animals in New Zealand titled “Leptospirosis – what’s the pain?”, to 60 farmers in two sessions on Tuesday, 20 May 2014, Rotorua, New Zealand.

Nigel French – Invited seminar, University of Otago, Christchurch seminar series. 'Epidemiology, evolution and control of Campylobacter spp. in NZ: What we learned over the last decade?', University of Otago, Christchurch Medical School, 2014.

Nigel French – Plenary, General Practice Conference and Medical Exhibition, Rotorua, 'Waterborne zoonoses in New Zealand', 2014.

Nigel French – Presented “Raw Milk” talk at NZVA conference Hamilton June 2014


David Hayman – Presented a talk entitled, “Diagnostic challenges of emerging bat viruses: implications for the study of wildlife infectious diseases,” Molecular Diagnostics Workshop (2014), National Centre for Biosecurity and Infectious Diseases, New Zealand


d) Other

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