# OIE Collaborating Centres Reports Activities

## Activities in 2015

This report has been submitted: 2016-01-21 08:04:33

<table>
<thead>
<tr>
<th><strong>Title of collaborating centre:</strong></th>
<th>Surveillance and Control of Animal Diseases in Africa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address of Collaborating Centre:</strong></td>
<td>Agricultural Research Council Onderstepoort Veterinary Institute Private Bag X05 Onderstepoort 0110 SOUTH AFRICA</td>
</tr>
<tr>
<td><strong>Tel.:</strong></td>
<td>+27-12 529.91.06</td>
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<tr>
<td><strong>Fax:</strong></td>
<td>+27-12 565.46.64</td>
</tr>
<tr>
<td><strong>E-mail address:</strong></td>
<td><a href="mailto:mulumbam@arc.agric.za">mulumbam@arc.agric.za</a></td>
</tr>
<tr>
<td><strong>Website:</strong></td>
<td><a href="http://www.arc.agric.za">www.arc.agric.za</a></td>
</tr>
<tr>
<td><strong>Name of Director of Institute (Responsible Official):</strong></td>
<td>Dr M Mulumba</td>
</tr>
<tr>
<td><strong>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</strong></td>
<td>Dr M Mulumba Senior Manager Research: Animal Health and Protection</td>
</tr>
<tr>
<td><strong>Name of writer:</strong></td>
<td>Ms Delille Wessels</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>Epidemiology, surveillance, risk assessment, modelling</th>
</tr>
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<tbody>
<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>FMD (VI, LPBE, NSP ELISA, RT-PCR, sequencing, Ag ELISA typing)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Training, capacity building</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>Biorisk management for Veterinary laboratories</td>
</tr>
</tbody>
</table>

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<tr>
<th>Diagnosis, biotechnology and laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>AHS (AG, AGID, CFT, ELISA, VI) and hemi-nested RT-PCR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other (Name the category)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
</tr>
<tr>
<td>Recombinant RVFV nucleoprotein antigens produced for use as coating antigens in ELISA assays</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
| AHSV RT-PCR international Ring Trail Workshop | Discussion with regards to results and performance | ☐ Surveillance and control of animal diseases |
| ☐ Food safety | ☐ 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?

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>University of Alberta VIDO NCFAD</td>
<td>Canada</td>
<td>☐ Africa ☐ Americas ☐ Asia and Pacific ☐ Europe ☐ Middle East</td>
<td>Development of a LSD-RVF-PPR vaccine construct</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>
</table>
Dr C Sabetta | Electronic communication |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Nigeria: provide information on the relevant tests for assuring neutralizing antibodies in bat sera;</td>
<td>Namibia: Request for information on primers needed for the amplification of rabies viruses;</td>
</tr>
<tr>
<td>Mozambique: Available tests for rabies antibodies in lion sera</td>
<td></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: 1
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>
</thead>
<tbody>
<tr>
<td>c</td>
<td>During Biorisk management training, practical training on 3 subjects. Lab scenario setup to evaluate if training objectives are met</td>
<td>USA</td>
<td>21</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?

Yes

<table>
<thead>
<tr>
<th>National/International</th>
<th>Title of event</th>
<th>Co-organiser</th>
<th>Date (mm/yy)</th>
<th>Location</th>
<th>No. Participants</th>
</tr>
</thead>
</table>
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: 32

(FASINA F.O., BASTOS A.D., University of Pretoria).

MANS B.J., DE KLERK D.G., PIENAAR R., DE CASTRO M.H. & IBRAHIM A.A., 2015. Next-generation sequencing as means to retrieve tick systematic markers, with the focus on Nuttalliellia namaqua (Ixodidea: Nuttalliellidae).
Ticks and Tick-borne Diseases 6: 450-462.

(HORAK I.G., University of Pretoria, JORDAAN A.I., University of the Free State, NEL P.J., tourism and Environmental Affairs, Free State Province, VAN HEERDEN J., Kimberley Veterinary Clinic, VAN DALEN E.M., University of the Free State).

(MICHEL A.L., GEOGHEGAN C., University of Pretoria, GETS W.M., University of California, MARCOTTY T., Institute of Tropical Medicine, Antwerp, Belgium).

(MARIAUX J., Natural History Museum of Geneva, Switzerland, MEASEY G.J., University of Stellenbosch, South Africa, MUTAFCHIEV Y., Bulgarian Academy of Sciences, Bulgaria).

Antiviral research 123: 39-49.
(PURSE B.V., NERC Centre for Ecology and Hyrology, Oxfordshire, UK, 
CARPENTER S., The Pirbright Institute, Surrey, UK, BELLIS G., Department of Agriculture, Fisheries, and Forestry, Marrara, Australie, MULLENS B.A., Department of Entomology, University of California, USA).


(MEISWINKEL R., Private, SCHOLTZ C.H., University of Pretoria).

GORDON S.J.G., BOLWELL C., ROGERS C., MUSUKA G., KELLY P., LABUSCHAGNE K., 
(GORDON S.J.G., BOLWELL C., ROGERS C., Massey University, New Zealand, 
MUSUKA G., UNICEF Nigeria, KELLY P., Ross University, St. Kitts West Indies, GUTHRIE A.J., University of Pretoria, DENISON E., MELLOR P.S., HAMBLIN C., Pirbright Institute, UK).

(BAIN O., Muséum National d Histoire Naturelle, MUTAFCHIEV Y., Bulgarian Academy of Sciences, GUERRERO R., Universidad Central de Venezuela, MARTIN C., LEFOULON E., Muséum National d Histoire Naturelle, UNI S., Osaka City University).

(VOSLOO W., CSIRO, NSAMBA P., Makerere University, DE BEER T.A.P., European Bioinformatics Institute).

LEFOULON E., BAIN O., BOURRET J., JUNKER K., GUERRERO R., CANIZALES I. 
KUZMIN Y., CARDENAS-CALLIRGOS J.M., DE SOUZA LIMA S., RACCURT C., 
(LEFOULON E., BAIN O., BOURRET J., Natural History Museum, Paris, France, 
GUERRERO R., CANIZALES I., University of Venezuela, KUZMIN Y., National Academy of Sciences, Kiev, Ukraine, University Gadjah Mada, Indonesia, 
CARDENAS-CALLIRGOS J.M., APHIA, Peru, DE SOUZA LIMA S., Federal University of Juiz Fora, Brasil, RACCURT C., Public Health Laboratory, Haiti, 
MUTAFCHIEV Y., Bulgarian Academy of Sciences, GAVOTTE L., University of Montpellier, France, MARTIN C., Natural History Museum, Paris, France).


WEYER C.T., JOONE C., LOURENS C.E., MONYAI M.S., Equine Research Centre, Faculty of Veterinary Science, University of Pretoria, GREWAR J.D., Epidemiology, Veterinary Services (Animal Health) Western Cape Department of Agriculture, MACLACHLAN N.J., Equine Viral Disease Laboratory, Department of Pathology, Microbiology and Immunology, School of Vet, GUTHRIE A.J., Equine Research Centre, Faculty of Veterinary Science, University of Pretoria).


Sabeta, C. 2015. Role of the glycoprotein in lyssavirus pathogenicity. Future Virology, 10.2217/fvl.15.84.


b) International conferences: 3


"Rabies in African wild-dogs (Lycaon pictus) in North-West South Africa linked to a dog (canid) rabies cycle" during the 17th Annual International Symposium of the World Association of Veterinary Laboratory Diagnosticians (WAVLD), that will take place in Saskatoon (Canada) from June 15-18, 2015.(Oral presentation)

c) National conferences:  2
Serosurveillance studies of rabies neutralizing antibodies in Nigerian fruit bat Eidolon Helvum” during the 17th Annual International Symposium of the World Association of Veterinary Laboratory Diagnosticians (WAVLD), that will take place in Saskatoon (Canada) from June 15-18, 2015.

The serological surveillance of rabies virus neutralising antibodies in dogs following vaccination in Limpopo province during the 13th annual congress of the Southern African Society for Veterinary Epidemiology and Preventive Medicine (SASVEPM during [19-21 August 2015] in Bloemfontein.

d) Other
(Provide website address or link to appropriate information):  5


Article in Proceedings:

Book chapter: