

# OIE Collaborating Centres Reports Activities

## *Activities in 2021*

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<b>Title of collaborating centre:</b>	Training in Integrated Livestock/Wildlife Health
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<b>Name of Director of Institute (Responsible Official):</b>	Prof. Vinny Naidoo
<b>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</b>	Prof. Anita Michel Programme Manager: Bovine Tuberculosis and Brucellosis Research
<b>Name of writer:</b>	Prof. Anita Michel

**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**

Training, capacity building	
Title of activity	Scope
Training course on African swine fever	Self-study course for veterinarians consisting of 7 modules which was held from 9 Sept to 7 Oct 2021 and was attended by 372 participants from 15 SADC countries
OIE Regional training on import risk analysis for African swine fever	Six virtual sessions between 9 Nov and 14 Dec 2021 (20 hours) attended by 49 participants, 47 from African countries (Botswana, Eswatini, Gambia, Ghana, Kenya, Lesotho, Mauritius, Mozambique, Namibia, Nigeria, Rwanda, Seychelles, Sierra Leone, South Sudan, Tanzania, Uganda, Zambia)
African swine fever in an endemic area	Virtual seminar on managing ASF in different settings organised by USDA and presented on 21 Dec 2021
The drivers of emergence and spread of swine disease epidemics	Invited virtual presentation at the Bertebos Webinar: Towards a new mindset for epizootic animal diseases and wise decision-making in society in Stockholm, Sweden 7-8 September 2021
African swine fever: 100 years of research in Africa	Introductory presentation during the virtual event: The Eustace Montgomery Seminar: Honouring the first 100 years of ASF research, with the theme Exploring the hurdles that remain for control of African swine fever in smallholder farming settings, organised jointly by the Global African swine fever Research Alliance, the Swedish National Veterinary Institute, the Swedish University of Agricultural Sciences, Uppsala and the Swedish Agricultural Network Initiative on 8 December 2021, attended by 440 participants.
Anthrax: aetiology, epidemiology, diagnosis and management	ERFAN Information days; online 15 and 21 April 2021. Attended by 21 participants from 11 African countries.
Rift Valley Fever	ERFAN Online course, 8 to 24 Nov 2021

**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
NA	NA	<input type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input 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?**

No

***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?**

No

***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: 107

- 1 Van den Bergh C., Swanepoel R., Venter E.H., Thompson P.N Seroprevalence and seroconversion to Rift Valley fever virus in cattle and goats in far northern KwaZulu-Natal, South Africa, 2016-2018. Emerging infectious diseases
- 2 B. B. Dogonyaro & H. van Heerden & A. D. Potts & B. F. Kolo & C. Lotter & C. Katsande & F. O. Fasina & A. I. Ko & E. A. Wunder Jr & A. A. Adesiyun Seroepidemiology of Leptospira infection in slaughtered cattle in Gauteng province, South Africa Tropical Animal Health and Production
- 3 Antoinette van Schalkwyk, Siphon Gwala, Kaitlyn N. Schuck, Melvyn Quan, Anne Sally Davis, Marco Romito, Lieza Odendaal Retrospective phylogenetic analyses of formalin-fixed paraffin-embedded samples from the 2011 Rift Valley fever outbreak in South Africa, through sequencing of targeted regions Journal of Virological Methods
- 4 Francis B. Kolo | Abiodun A. Adesiyun | Folorunso O. Fasina | Andrew Potts | Banenat B. Dogonyaro | Charles T. Katsande | Henriette Van Heerden A retrospective study (2007–2015) on brucellosis seropositivity in livestock in South Africa Veterinary Medicine and Science
- 5 Charlotte Ropafadzo Mupfunya | Daniel Nenene Qekwana | Vinny Naidoo Antimicrobial use practices and resistance in indicator bacteria in communal cattle in the Mnisi community, Mpumalanga, South Africa Vet Med Sci.
- 6 Lieza Odendaal, A Sally Davis, and Estelle H Venter Insights into the Pathogenesis of Viral Haemorrhagic Fever Based on Virus Tropism and Tissue Lesions of Natural Rift Valley Fever Viruses
- 7 Gianluca P. Zaffarano, Lin-Mari de Klerk-Lorist, Kerstin Junker, Emily Mitchell, Raksha Vasanthrai Bhoora, Giovanni Poglayen, Danny Govender First report of cystic echinococcosis in rhinos: A fertile infection of Echinococcus equinus in a Southern white rhinoceros (Ceratotherium simum simum) of Kruger National Park, South Africa International Journal for Parasitology: Parasites and Wildlife
- 8 Jumari Snyman, Otto Koekemoer, Antoinette van Schalkwyk, Petrus Jansen van Vuren, Louwtjie Snyman, June Williams and Marietjie Venter Epidemiology and Genomic Analysis of Equine Encephalosis Virus Detected in Horses with Clinical Signs in South Africa, 2010–2017 Viruses
- 9 Meijerink N, van Haarlem DA, Velkers FC, Stegeman AJ, Rutten VPMG, Jansen CA Analysis of chicken intestinal natural killer cells, a major IEL subset during embryonic and early life Developmental and Comparative Immunology
- 10 Gregory Simpson, Peter N. Thompson, Claude Saegerman, Tanguy Marcotty, Jean-Jacques Letesson, Xavier de Bolle & Jacques Godfroid Brucellosis in wildlife in Africa: a systematic review and meta-analysis Scientific Reports volume 11, Article number: 5960 (2021)
- 11 Abiodun Adesiyun, Folorunso O. Fasina, Ovokeroye A. Abafe, Malesedi Mokgoatlheng-mamogobo, Oluwatola Adigun, Thelma Mokgophi, Matshie Phosa, Ziyanda Majokweni Occurrence and concentrations of residues of tetracyclines, polyether ionophores and anthelmintics in livers of chickens sold in the informal market in Gauteng province, South Africa Journal of Food Protection, Vol. 84, No. 4, 2021, Pages 655–663
- 12 Thelma M. Mokgophi, Nomakorinte Gcebe, Folorunso Fasina and Abiodun A. Adesiyun "Antimicrobial Resistance Profiles of Salmonella Isolates on Chickens Processed and Retailed at Outlets of the Informal Market in Gauteng Province, South Africa " Pathogens 2021, 10, 273
- 13 Elizabeth T.Chimera, Geoffrey T.Fosgate, Eric M.C.Etterad, AlainBoulangéce, IlseVorster, LuisNeves A one health investigation of pathogenic trypanosomes of cattle in Malawi Preventive Veterinary Medicine Volume 188, March 2021, 105255
- 14 Mary-Louise Penrith, Armanda Bastos and Erika Chenais With or without a Vaccine—A Review of Complementary and Alternative Approaches to Managing African Swine Fever in Resource-Constrained Smallholder Settings Vaccines
- 15 Alida Avenant, Janice Y. Park, Ilse Vorster, Emily P. Mitchell and Angela M. Arenas-Gamboa Porcine Babesiosis Caused by Babesia sp. Suis in a Pot-Bellied Pig in South Africa Frontiers in Veterinary Science, Veterinary experimental and diagnostic pathology
- 16 Ntji Shabangu, Barend L. Penzhorn, Marinda C. Oosthuizen, Ilse Vorster, O. Louis van Schalkwyk, Robert F. Harrison-White and P. Tshepo Matjila A shared pathogen: Babesia rossi in domestic dogs, black-backed jackals

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 17 John D. Grewar, Johann L. Kotze, Beverly J. Parker, Lesley S. van Helden, Camilla T. Weyer "An entry risk assessment of African horse sickness virus into the controlled area of South Africa through the legal movement of equids" PLOS ONE  
 18 C.J. DeBeer, S.N.B Boikanyo and G.J. Venter Assessment of the Hemotek® system for the in vitro feeding of field-collected *Culicoides imicola* (Diptera: Ceratopogonidae) in South Africa Medical and Veterinary Entomology  
 19 David E.Zimmermann, Barend L.Penzhorn, IseVorster, MilanaTroskie, Marinda C.Oosthuizen *Babesia bicornis*, *Theileria bicornis* and *Theileria equi* in metapopulations of two black rhinoceros (*Diceros bicornis*) subspecies in South Africa and their potential impact on conservation Ticks and Tick-borne Diseases Volume 12, Issue 2, March 2021, 101635  
 20 Ronel Pienaar, DanielG. de Klerk, Minique H. de Castro, Jonathan Featherston, Ben J. Mans "De novo assembled salivary gland transcriptome and expression pattern analyses for *Rhipicephalus evertsi evertsi* Neuman, 1897 male and female ticks" Scientific reports, nature research  
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 22 Donald M. Lubembe, David O. Odongo, Fourie Joubert, Kgomo P. Sibeko-Matjila Limited diversity in the CD8+ antigen-coding loci in *Theileria parva* parasites from cattle from southern and eastern Africa Veterinary Parasitology  
 23 Kelava, S., B. J. Mans, R. Shao, M. A. M. Moustafa, K. Matsuno, A. Takano, H. Kawabata, K. Sato, H. Fujita, C. Ze, O. Plantard, S. Hornok, S. Gao, D. Barker, S. C. Barker, and R. Nakao Phylogenies from mitochondrial genomes of 120 species of ticks: Insights into the evolution of the families of ticks and of the genus *Amblyomma* Ticks and Tick-borne Diseases Volume 12, Issue 2, March 2021, 101635  
 24 Mandla Yawa, Nkululeko Nyangiwe, Ishmael Festus Jaja, Charles T. Kadzere & Munyaradzi Christopher Marufu Prevalence of serum antibodies of tick-borne diseases and the presence of *Rhipicephalus microplus* in communal grazing cattle in the north-eastern region of the Eastern Cape Province of South Africa Arthropods and Medical Entomology - Original Paper Published: 06 January 2021  
 25 Maria Stokstad, Peter Coetzee, Mette Myrmet, Paidamwoyo Mutowembwa, Estelle H Venter and Stig Larsen Refined experimental design may increase the value of murine models for estimation of bluetongue virus virulence "Laboratory Animals 0(0) 1-10 The Author(s) 2020  
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 26 William Shereni, Luis Neves; Glyn Vale; Rafael Argiles; Learnmore Nyakupinda; Giuliano Cecchi "An atlas of tsetse and animal African trypanosomiasis in Zimbabwe" Parasites and Vectors  
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 33 Robinson H. Mdegela, Elibariki R. Mwakapeje, Bachana Rubegwa, Daniel T. Gebeyehu, Solange Niyigena, Victoria Msambichaka, Hezron E. Nonga, Nicolas Antoine-Moussiaux and Folorunso O. Fasina "Antimicrobial Use, Residues, Resistance and Governance in the Food and Agriculture Sectors, Tanzania  
 " Antibiotics 2021, 10, 454  
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- 38 Maphuti Betty Ledwaba, Barbara Akorfa Glover, Itumeleng Matle, Giuseppe Profiti, Pier Luigi Martelli, Rita Casadio, Katuscia Zilli, Anna Janowicz, Francesca Marotta, Giuliano Garofolo and Henriette van Heerden Whole Genome Sequence Analysis of Brucella abortus Isolates from Various Regions of South Africa *Microorganisms* 2021, 9, 570
- 39 Deon K. Bakkes, Anne Ropiquet, Lidia Chitimia-Dobler, Dikeledi E. Matloa, Dmitry A. Apanaskevich, Ivan G. Horak, Ben J. Mans, Conrad A. Matthee "Adaptive radiation and speciation in Rhipicephalus ticks: A medley of novel hosts, nested predator-prey food webs, off-host periods and dispersal along temperature variation gradients " *Molecular Phylogenetics and Evolution*
- 40 Ivan G. Horak, Joop Boomker, Kerstin Junker and G. James Gallivan Some gastrointestinal nematodes and ixodid ticks shared by several wildlife species in the Kruger National Park, South Africa *Parasitology*
- 41 Gourgélia Sili, Charles Byaruhanga, Ivan Horak, Helena Steyn, Mamohale Chaisi, Marinda C. Oosthuizen & Luís Neves Ticks and tick-borne pathogens infecting livestock and dogs in Tchicala-Tcholoanga, Huambo Province, Angola *Parasitology Research (2021) Arthropods and Medical Entomology - Short Communication*
- 42 "Francesca Marcato, Henry van den Brand, Christine A. Jansen, Victor P. M. G. Rutten, Bas Kemp, Bas Engel, Maaïke Wolthuis-Fillerup, Kees van Reenen" Effects of pre-transport diet, transport duration and transport condition on immune cell subsets, haptoglobin, cortisol and bilirubin in young veal calves *PLOS ONE*
- 43 Michel A, van Heerden H, Rutten V, Prasse D, Al-Dahouk S, Crossley B Pathogen detection and disease diagnosis in wildlife: challenges and opportunities *Rev. Sci. Tech. Off. Int. Epiz.*, 2021, 40 (1), 105-118
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- 47 "Charles Byaruhanga, Patience C. Akure, Donald M. Lubembe, Kgomotso Sibeko-Matjila, Milana Troskie, Marinda C. Oosthuizen, Hein Stoltsz " Molecular detection and characterisation of protozoal and rickettsial pathogens in ticks from cattle in the pastoral area of Karamoja, Uganda *Ticks and Tick-borne Diseases*, 12 (4): 101709
- 48 Courtney J Marneweck, O Louis van Schalkwyk, David G Marneweck, Grant Beverley, Harriet T Davies-Mostert, Daniel M Parker Reproductive state influences the degree of risk tolerance for a seasonally breeding mesopredator *Behavioral Ecology*, arab018, <https://doi.org/10.1093/beheco/arab018>
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- 50 Mary-Anne Frank, William S M Justice, Roberto La Ragione, Mark A Chambers Antibiotic Resistance In Escherichia Coli And Enterococcus Spp. Isolated From Ungulates At A Zoological Collection In The United Kingdom *Journal of Zoo and Wildlife Medicine*
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- 52 Joanne Marie M. Del Rosario, Kelly A. S. da Costa, Benedikt Asbach, Francesca Ferrara, Matteo Ferrari, David A. Wells, Gurdip Singh Mann, Veronica O. Ameh, Claude T. Sabeta, Ashley C. Banyard, Rebecca Kinsley, Simon D. Scott, Ralf Wagner, Jonathan L. Heeney, George W. Carnell and Nigel J. Temperton Exploiting Pan Influenza A and Pan Influenza B Pseudotype Libraries for Efficient Vaccine Antigen Selection *Vaccine MDPI*
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b) International conferences: 2

- Invited webinar on "Biosecurity: weapon for protecting pigs from African swine fever" in the Epidemiology and Disease Ecology section of the 2021 Scientific Symposium of the National Bio and Agro Defense Facility of the USDA on 29 April 2021. The live session was attended by >450 participants (exact figure not provided), countries not specified but the majority were from North America (USA and Canada).

Michel, A.L. and Kock, M. Invited keynote address entitled: Wildlife through the lens of One Health. CUENCA 2021 Joint virtual conference of the Wildlife Disease Association & European Wildlife Disease Associations.

c) National conferences: 2

- Virtual keynote address on "Innovative biosecurity practices for controlling African swine fever outbreaks in South Africa and the region" at the 18th Annual SASVEPM Congress on 26 September 2021. The Congress was attended by 378 participants from South Africa, Botswana, Nigeria, Tanzania, Zambia and Zimbabwe.

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d) Other

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

## 9. Additional comments regarding your report:

As set out in the letter to Dr Arroyo, dated 13/12/2021, the Centre's activities have been limited to the departmental training courses and scientific publications produced by the Department of Veterinary Tropical Diseases as external funding for earmarked training for the Collaborating Centre could not be secured. For 2022 a change in the strategic approach has been taken at faculty level and the new proposed strategic plan including active training activities in the areas of livestock and wildlife health will be tabled to the OIE within the coming weeks.