

1. Full Names (also maiden name where applicable)

Gert Johannes Venter

2. Date and place of birth

28 April 1960, Bloemfontein, South Africa

3.1 Wife/husband: name; marriage date; country of origin; vocation; children

Unmarried

3.2 Parents: names; country of origin; vocation etc.

Father: Christiaan Venter

Born: 7 November 1919, Kuruman, South Africa

Mother: Aletta Magrietha Venter (nee Koekemoer)

Born: 31 December 1927, South Africa.

3.3 Grandparent: names; country of origin; vocation etc.

Grandparents were from South Africa.

4. Schooling

Grade 1- 4: Koot Niemand Highschool, Bloemfontein, South Africa.

Grade 4 -6: Sand du Plessis, Primary School, Bloemfontein, South Africa.

Grade 7: Grey College Primary School Bloemfontein, South Africa.

Grade 8 – 12: Grey College Secondary School, Bloemfontein, South Africa.

5. Veterinary and/or para-veterinary qualifications

6. Other qualifications

B.Sc.: (1980) University of the Orange Free State (UOFS), Majors: Botany and Zoology.

B.Sc.: (Hons) Zoology: (1981) UOFS.

M.Sc.: (1991) UOFS.

Title: A study of the distribution and seasonal abundance of *Culicoides* spp. (Diptera: Ceratopogonidae) and associated viral diseases in the R.S.A.

PhD: (2008) University of the Free State (UFS).

Title: The oral susceptibility of South African livestock-associated *Culicoides* species to selected orbiviruses.

1982 – 1984: National Military Service – School of Engineers, Kroonstad.

7. Curriculum vitae (= comprehensive description of career)

i. Chronology of positions held (provide comprehensive cv if possible)

January 1980: Laboratory Assistant – University of the Free State

December 1981: Assistant Veterinary Researcher - Onderstepoort Veterinary Research Institute

December 1985: Veterinary Researcher - Onderstepoort Veterinary Research Institute

December 1989: Senior Veterinary Researcher - Onderstepoort Veterinary Research Institute

April 1996: Veterinary Researcher - Onderstepoort Veterinary Research Institute

April 1998: Chief Veterinary Researcher - Onderstepoort Veterinary Research Institute

April 2013: Specialist Researcher - ARC-Onderstepoort Veterinary Institute

Was a part time lecturer at the Tshwane University of Technology on insects of veterinary importance.

ii. Highlights of career

Research Highlights

Culicoides biting midges are vectors of a range of orbiviruses that cause important veterinary diseases. The effective monitoring of *Culicoides* species diversity and abundance, both at livestock and near potential wildlife hosts, is essential for risk management. The Onderstepoort 220-V UV light trap is extensively used for this purpose. Reducing its power requirements by fitting low-energy light-emitting diodes can lead to greater flexibility in monitoring. A comparison of the efficiency of the 220-V Onderstepoort trap (8-W fluorescent UV light) with the efficiency of the 220-V or 12-V Onderstepoort traps fitted with red, white, blue or green LEDs or a 12-V fluorescent Onderstepoort trap demonstrated the 220-V Onderstepoort trap to be the most efficient. All the results showed nulliparous *Culicoides imicola* females to be the dominant grouping. Despite the lower numbers collected, 12-V traps can be used in field situations to determine the most abundant species.

Considering the wide distribution of *Culicoides* midges in general, and especially that of *Culicoides imicola*, the most abundant livestock associated *Culicoides* species in southern Africa, the study in the Eastern Cape Province, covering the southernmost limits of its distribution, contributed to the global understanding of *Culicoides* borne diseases. We identify vectors that can potentially transmit African horse sickness virus (AHSV) from the wild reservoirs to a farming situation. Proven vectors *Culicoides bolitinos* and *C. imicola* were widespread, however, lower representation compared to northern-South Africa and continual presence of other orally susceptible species, support additional vectors contributing to AHSV persistence. The data represents the first records of *Culicoides* species that feed on horses, donkeys and zebras, revealing an overlap in host preferences and associated vector potential of these midge species.

Applying artificial feeding methods to indicate a multi vector potential for a number of viruses, e.g., bluetongue-, African horse sickness- and bovine ephemeral fever virus. These observations were substantiated during unexpected outbreaks of bluetongue in northern Europe.

The fact that at least 10 *Culicoides* species were shown to feed on equines support a multi vector potential for AHSV. Of special interest may be the fact that it was confirmed that *C. imicola*, will feed on dogs under natural conditions. This information may contribute to the clarification of the role of carnivores in the epidemiology of AHSV. Based on abundance, *C. bolitinos* appears to be largest contributor to vector

epidemiology, with apparent persistence of vectors throughout the winter in absence of annual northern reintroduction enabling established AHSV.

Insight into the factors that regulate the circadian host-seeking flight activity of *Culicoides* vectors will be of importance to assess the risk of transmission of *Culicoides*-borne pathogens. A study was aimed to determine the impact of temperature and humidity on the flight activity of *C. imicola*, and other livestock associated *Culicoides* species, under both laboratory and field conditions. Batches of 500 field-collected *C. imicola* females were acclimatized at a predetermined range of temperatures (10–29 °C) and relative humidity (34–85%). After acclimatization, these females, prompted by a light source, were allowed to escape through a transparent plastic funnel into a paper cup, where they were counted after an hour. Flight activity under field conditions was determined seasonally by hourly light trap collections done overnight at four sites near cattle. Experiments conducted at various test conditions in the laboratory indicated that flight activity started at 13 °C. Peak in activity was observed between 16–18 °C, and temperatures above 20 °C seemingly inhibit flight. Under field conditions, a peak in numbers collected was observed immediately after sunset. With mean nocturnal temperatures below 19 °C, more than 74% of the *Culicoides* were collected within two to three hours after sunset. With mean nocturnal temperature above 19 °C, the peak in numbers at sunset was sustained until after midnight, with somewhat higher numbers collected after midnight once temperatures dropped below 20 °C. No peak in numbers was observed at dawn. Although low numbers were collected during the day, which partly may have been a result of the collecting method, *Culicoides* were present throughout periods of 24 hours. Humidity seemed to play a minor role in the regulation of flight activity.

iii. Memorable incidents: e.g., anecdotes; breakthroughs in research or negotiations conducted (locally & internationally) etc.

iv. Visits to foreign countries, including foreign assignments

International collaboration

International grants and collaboration

1994-1998 United States Department of Agricultural, Foreign Agricultural Service of International Co-operative Development and the United States Department of Agricultural Research Service (Co-operative agreement no 58-5410-6-F108). (Co-worker).

1994-1998 European Union: Arboviral Diseases in southern Africa – Identification of the vectors and Development of a Climate-Driven Risk Assessment Model (Contract number (IC18-CT95-0010). (Co-worker).

2001-2004 European Union Contract No: QLRT-2000-01722 Development of a safe, efficacious bluetongue virus vaccination strategy for Europe. (Co-worker)

2007- European Union Funded Surveillance network of Reoviruses, Bluetongue and African Horse Sickness, in the Mediterranean basin (Co-worker).

2008- National Research Foundation. Joint research projects within the executive programme of scientific and technological co-operation between Italy and South Africa for the years 2007-2009.

2009- Institute for Animal Health, Pirbright. Saliva proteins of South African *Culicoides* species

Official Overseas visits:

1992: United Kingdom. Attending a course in Advanced Methods in Medical & Veterinary Vector Control - London

1994: Botswana. OIE Scientific Conference on the control of foot and mouth disease, African horse sickness and contagious bovine pleuropneumonia - Gaborone, 20-23 April 1994.

1996: United States of America. Visit USDA-ARS-ABADRIL on a joint research project to determine if the main blue tongue vector in the USA can become infected with South African isolates of bluetongue virus.

1997: Italy - Progress report meeting of European Union funded project.

1997: United States of America. Visit USDA-ARS-ABADRIL on a joint research project to determine if the main bluetongue vector in the USA can become infected with South African isolates of bluetongue virus.

1998: Zimbabwe - Progress report meeting of an European Union funded project.

1998: United Emirates - Dubai - "Eighth International Conference on Equine Infectious Diseases" - 23 - 26 March 1998.

1999: United Kingdom. Collaborative studies on an European Union Funded Project. 21 July 1999 – 5 August 1999.

- 1999: Zimbabwe. Conference of the Zimbabwe Veterinary Association. 16-18 September
- 2002: United Kingdom: A co-ordination and study visit to the Institute for Animal Health, Pirbright. Comparing feeding methods and determining the oral susceptibility of European *Culicoides* species with that of *C. imicola* and *C. bolitinos* in South Africa for bluetongue.
- 2002: Greece. A combined meeting of the European Union contracts on the Development of a safe, efficacious bluetongue virus vaccination virus vaccination strategy in Europe and phylogenetic sequence analysis and improved diagnostic assay systems for viruses of the family reoviridae.
- 2003: United Kingdom: A co-ordination and study visit to the Institute for Animal Health, Pirbright.
- 2003 United Kingdom: Progress Report Meeting on European Union funded project
- 2003: Italy: Third International Conference on Bluetongue (Invited speaker)
- 2004: France: A combined meeting of the European Union contracts on the Development of a safe, efficacious bluetongue virus vaccination virus vaccination strategy in Europe and phylogenetic sequence analysis and improved diagnostic assay systems for viruses of the family reoviridae.
- 2005: Belgium: Workshop: European Union funded research in bluetongue (Invited speaker)
- 2007: France: Kick-off meeting of an international project on a “Surveillance network of Reoviruses, Bluetongue and African Horse Sickness, in the Mediterranean Region
- 2007: Spain: Attend a progress report meeting of a project on a “Surveillance network of Reoviruses, Bluetongue and African Horse Sickness, in the Mediterranean basin.”
- 2008: Italy: Attend a progress report meeting of a project on a “Surveillance network of Reoviruses, Bluetongue and African Horse Sickness, in the Mediterranean basin.”
- 2010: Presented a training course on *Culicoides* as vectors of orbiviruses in Italy. This course was presented in cooperation with the Italian National Reference Centre for Exotic Diseases – and University of Pretoria. I am an extra ordinary lecturer in the Department of Veterinary Tropical Diseases of the University of Pretoria.
- 2011: Co-chairman on a symposium on *Culicoides* midges at the 59th Annual meeting of the Entomological Society of America, Reno, USA.

v. Vocation/career-associated extramural activities: eg Veterinary Association a.o. Scientific Associations (locally and overseas)

Entomological Society of America

Parasitological Society of Southern Africa

A member of an OIE *Culicoides* vector working group. The aim of this group is to provide OIE guidelines for the entomological activities linked to the surveillance of bluetongue in Europe. The working group consists of ten people and includes representatives from Italy, Spain, UK, USA and Australia.

Acted as moderator for the Veterinary Entomology (VTE301T) at the Tshwane University of Technology and an extra ordinary lecturer in the Department of Veterinary Tropical Diseases of the University of Pretoria.

NRF rating: C1

8. Association with following events

i. Veterinary Faculty at Onderstepoort before 1954

NA

ii. Construction starts on new site – 1954

NA

iii. Full time teaching posts – 1957

NA

iv. Complete separation from Institute – 1973

NA

v. Medunsa Veterinary Faculty – 1980

NA

vi. Separate directorates – Veterinary Services and Institute

NA

vii. Establishment of Onderstepoort Veterinary Institute (OVI) of the Agricultural Research Council (ARC) – 1 April 1992

NA

viii. Separation of vaccine production from the OVI & creation of OBP

NA

ix. Establishment of Onderstepoort Institute for Epizootic Diseases of the ARC

NA

x. Institution of formal education for veterinary technologists, animal health technicians, veterinary nurses

NA

xi. Creation of SA Association of Veterinary Technologists

NA

xii. Amalgamation of veterinary faculties

NA

xiii. Multi-national organizations for veterinary matters (OIE, FAO, CSA, CCTA, SADC, SARCCUS etc)

NA

xiv. Creation of Theiler Memorial Trust a.o. foundations

NA

xv. Other

NA

9. Post-retirement veterinary/paraveterinary activities

Associated editor of Medical and Veterinary Entomology.

Section editor (Arthropods, excluding ticks) for the Onderstepoort Journal of Veterinary Research.

Act as referee for several International Entomological and Virological Journals, research grant applications and the evaluation of PhD and MSc dissertations.

Extra ordinary lecturer at the Faculty of Veterinary Science at the University of Pretoria.

10. Hobbies and sporting interests and achievements

Hobbies include reading and crosswords.

11. Other

Students

2009

Page, P.C., 2009. Duration of repellency of selected agents against *Culicoides* species when applied to polyester mesh. MMedVet (Equine Medicine). Faculty of Veterinary Science, University of Pretoria.

Promoter: Prof. A. Guthrie, Co-Promoter: Dr. G. Venter

2011

Becker, E., 2011. The occurrence of African horse sickness in Hartmann's mountain zebra and its *Culicoides* vector in the south-western Khomas Region, Namibia. Master of Science. School of Environmental Sciences, North-West University.

Supervisor: Prof. H. van Hamburg, Co-supervisor: Dr. G.J. Venter

Schütte, C., 2012. Seroprevalence of African horse sickness virus and equine encephalosis virus in equids and abundance of *Culicoides* midges in Namaqualand, South Africa. Master of Science in Veterinary Tropical Diseases, Department of Veterinary Tropical Diseases, University of Pretoria

Promoter: Dr. J.E. Crafford, Co-Promoter: Dr. G.J. Venter

2013

Renda-Dollman, S., 2013. Evaluation of Substrate Conditions as a Limiting Factor for Tsetse Fly Choice of Larviposition Site and Subsequent Pupal Development. A mini-dissertation submitted in partial fulfilment of the degree of Bachelor of Science Honours in Zoology. Department of Zoology and Entomology, University of Free State Qwa-Qwa campus.

Promoter: Dr. Dr O.M.M. Thekiso, Co-Promoters: Chantel De Beer & Dr. G.J. Venter

Verhoef, F.A. 2013. The Thermal Limits of two biting midges, *Culicoides imicola* Kieffer and *Culicoides bolitinos* Meiswinkel (Diptera: Ceratopogonidae) and their effect on distribution and abundance. Honours in Entomology, Department of Entomology and Zoology, University of Pretoria.

Supervisor: Dr C. Weldon, Co-Supervisor: Dr. G.J. Venter

2014

Steyn, J. 2014. Epidemiology of bluetongue virus in South Africa with special reference to the Mnisi area, Mpumalanga Province, South Africa. Magister Scientiae (Veterinary Science). Department of Veterinary Tropical Diseases, Faculty of Veterinary Science, Pretoria, South Africa.

Promoter: Prof. E.H. Venter, Co-promoters: Dr P. Coetzee and Dr. G. Venter

2015

Page, P.C. 2015. Investigation of methods for protection of horses in jet stalls against *Culicoides* biting midges. PhD (Veterinary Science) in the Department Companion Animal Clinical Studies, Faculty of Veterinary Science, University of Pretoria, South Africa, Pretoria.

Promoter: Prof A. Guthrie, Co-promoters: Prof J. Schoeman, Dr G. Venter

2016

De Beer, J.C. 2016. Mating behaviour and competitiveness of male *Glossina brevipalpis* and *Glossina austeni* in relation to biological and operational attributes for use in the Sterile Insect Technique. PhD in the Department of Zoology and Entomology, Faculty of Natural and Agricultural Sciences, University of the Free State, South Africa, Bloemfontein.

Promoter: Dr G.J. Venter, Co-promoters: Dr M.J.B. Vreysen and Dr S.L. Brink

2017

Riddin, M.A. 2017. The epidemiology of African horse sickness in the Eastern Cape, South Africa. PhD in Zoology at Rhodes University.

Supervisor: Prof M.H. Villet, Co-supervisor: Dr G.J. Venter

2019

Sebitsang, S.S. 2019 Assessing the influence of population density on the efficiency of the Onderstepoort and miniature CDC light traps for the collection of livestock-associated *Culicoides* species. BSc honours (entomology), University of the Free State.

Supervisor: Dr V.R. Swart, Co-supervisor: Dr C.J. De Beer and Dr G.J. Venter.

Steyn, J. 2019. *Culicoides* midges (Diptera: Ceratopogonidae) as potential vectors for neurological arboviruses and the prevalence of infection at the wildlife/human interface. PhD in Medical Virology, University of Pretoria.

Supervisor: Prof. M. Venter, Co-supervisor: Dr A. Conan and Dr G. Venter

2020

Penzhorn, L. 2020. Temporal population dynamics and host-specific blood meals of *Culicoides* midges at Onderstepoort, South Africa. Magister Scientiae (Veterinary Science), Faculty of Veterinary Science, Pretoria, South Africa.

Supervisor: Prof. A. Guthrie, Co-supervisor: Dr. G. Venter and Dr. J. Crafford.

2022

Moyaba, M.P. 2022. Irradiated male mating proficiency and symbionts of colonised and wild type *Glossina brevipalpis* in South Africa. Magister Scientiae in Environmental Sciences at the North-West University, Potchefstroom, South Africa.

Supervisor: Prof O.M.M Thekiso, Co-supervisor: Dr. C. de Beer and Dr. G.J. Venter

I acted as a moderator for the Veterinary Entomology (VTE301T) at the Tshwane University of Technology and an extra ordinary lecturer in the Department of Veterinary Tropical Diseases of the University of Pretoria.

Publications and Congress contributions:

1987

Abstracts - 1987

1. Venter, G.J., Nevill, E.M. & Meiswinkel, R. 1987. Stock-associated *Culicoides* species in South Africa. *In*: Proceedings of the sixth Entomological Congress of the Entomological Society of Southern Africa. Stellenbosch, South Africa, 6-9 July 1987, p 84.

1988

2. Nevill, E.M., Venter, G.J., Edwardes, M., Pajor, I.T.P., Meiswinkel, R. & van Gas, J.H. 1988. *Culicoides* species associated with livestock in the Stellenbosch area of the western Cape province, Republic of South Africa (Diptera: Ceratopogonidae). *Onderstepoort Journal of Veterinary Research*, 55(2), 101–106.

1989

3. Venter, G.J. & Sweatman, G.K. 1989. Seasonal abundance and parity of *Culicoides* biting midges associated with livestock at Roma, Lesotho (Diptera: Ceratopogonidae). *Onderstepoort Journal of Veterinary Research*, 56(3), 173–177.

1991

4. Venter, G.J. 1991 'n Studie van die verspreiding en seisoenale voorkoms van *Culicoides* spesies (Diptera: Ceratopogonidae) en gekoppelde virussiektes in die R.S.A. MSc thesis University of the Orange Free State.
5. Venter, G.J., Hill, E., Pajor, I.T.P. & Nevill, E.M. 1991. The use of a membrane feeding technique to determine the infection rate of *Culicoides imicola* (Diptera, Ceratopogonidae) for 2 bluetongue virus serotypes in South Africa. *Onderstepoort Journal of Veterinary Research*, 58, 5-9.

1992

6. Nevill, E.M., Erasmus, B.J. & Venter, G.J. 1992. A six-year survey of viruses associated with *Culicoides* biting midges throughout South Africa (Diptera: Ceratopogonidae). *In: Bluetongue, African horse sickness and related orbiviruses Proceedings of the 2nd International Symposium* (ed. by T.E. Walton and B.I. Osburn), pp. 314-319. CRC Press, Boca Raton, Florida.
7. Nevill, E.M., Venter, G.J. & Edwardes, M. 1992. Potential *Culicoides* vectors of livestock orbiviruses in South Africa. *In: Bluetongue, African horse sickness and related orbiviruses Proceedings of the 2nd International Symposium* (ed. by T.E. Walton and B.I. Osburn), pp. 306-313. CRC Press, Boca Raton, Florida.
8. Venter, G.J., Williams, R. & Nevill, E.M. 1992. The value of donkeys as sentinels for African horse sickness. *In: Bluetongue, African horse sickness and related orbiviruses Proceedings of the 2nd International Symposium* (ed. by T.E. Walton and B.I. Osburn), pp. 825-831. CRC Press, Boca Raton, Florida.

1993

Abstracts - 1993

9. Nevill, E.M., Kappmeier, K. & Venter, G.J. 1993. Tsetse fly research in Zululand. *In: Proceedings of the 9th Entomological Congress organized by the Entomological Society of Southern Africa.* Johannesburg, South Africa, 28 June-1 July 1993, p. 81.

1994

10. Meiswinkel, R., Nevill, E.M. & Venter, G.J. 1994. Vectors: *Culicoides* spp. *In: Infectious Diseases of Livestock with Special Reference to Southern Africa* (ed. by J.A.W. Coetzer and R.C. Tustin), Oxford University Press, Cape Town. pp. 68–89.
11. Venter, G.J. & Meiswinkel R. 1994. The virtual absence of *Culicoides imicola* (Diptera: Ceratopogonidae) in a light-trap survey of the colder, high-lying area of the eastern Orange Free State, South Africa, and implications for the transmission of arboviruses. *Onderstepoort Journal of Veterinary Research*, 61(4), 327–340.

Abstracts - 1994

12. Neville^(sic), E.M., Venter, G.J., Le Roux, V. & Barnard, B.J.H. 1994. The vector potential for African horse sickness of *Culicoides* species on Robben Island and nearby S.W. Cape mainland. *In: Working document of: OIE scientific conference on the control of Foot and Mouth Disease, African Horse Sickness and Contagious Bovine Pleuropneumonia.* Gaborone, Botswana, 20-23 April 1994, p. 52–53.

1996

13. Venter, G.J., Meiswinkel, R., Nevill, E.M. & Edwardes, M. 1996. *Culicoides* (Diptera: Ceratopogonidae) associated with livestock in the Onderstepoort area, Gauteng, South Africa as determined by light-trap collections. *Onderstepoort Journal of Veterinary Research*, 63, 315–325.
14. Venter, G.J., Nevill, E.M. & Van der Linde, T.C. de K. 1996. Geographical distribution and relative abundance of stock-associated *Culicoides* species (Diptera: Ceratopogonidae) in southern Africa, in relation to their potential as viral vectors. *Onderstepoort Journal of Veterinary Research*, 63, 25-38.

1997

15. Venter, G.J., Nevill, E.M. & Van der Linde, T.C. de K. 1997. Seasonal abundance and parity of stock-associated *Culicoides* species (Diptera: Ceratopogonidae) in different climatic regions in southern Africa in relation to their vector potential. *Onderstepoort Journal of Veterinary Research*, 64(4), 259–271.

1998

16. Lindholm, A.K., Venter, G.J. & Ueckermann, A. 1998. Persistence of passerine ectoparasites on the diederik cuckoo *Chrysoccybus caprius*. *Journal of Zoology (London)*, 244, 145–153. doi: 10.1111/j.1469-7998.1998.tb00016.x
17. Venter, G.J., Paweska, J.T., Van Dijk, A.A., Mellor, P.S. & Tabachnick, W.J. 1998. Vector competence of *Culicoides bolitinos* and *C. imicola* for South African bluetongue virus serotypes 1, 3 and 4. *Medical and Veterinary Entomology*, 12, 378–385. doi 10.1046/j.1365-2915.1998.00116.x

1999

18. Baylis, M., Meiswinkel, R. & Venter, G.J. 1999. A preliminary attempt to use climate data and satellite imagery to model the abundance and distribution of *Culicoides imicola* (Diptera: Ceratopogonidae) in southern Africa. *Journal of the South African Veterinary Association*, 70(2), 80–89. doi: 10.4102/jsava.v70i2.759
19. Venter, G.J., Groenewald, D.M., Paweska, J.T., Venter, E.H. & Howell, P.G. 1999. Vector competence of selected South African *Culicoides* species for the Bryanston serotype of equine encephalosis virus. *Medical and Veterinary Entomology*, 13(4), 393–400. doi 10.1046/j.1365-2915.1999.00188.x

Abstracts - 1999

20. Paweska, J.T. & Venter, G.J. 1999. Replication of bluetongue virus in South African *Culicoides* collected near livestock. *In: Proceedings of the IX International Symposium of the World Association of Veterinary Laboratory Diagnosticians and OIE Biotechnology Seminar*. College Station, Texas, 2-5 June 1999. p 124.
21. Paweska, J.T. & Venter, G.J. 1999. The effect of temperature and incubation period on the replication of bluetongue virus in *Culicoides imicola* and *C. bolitinos* (Diptera: Ceratopogonidae). *In: Proceedings of the 12th congress of the Entomological Society of Southern Africa*. Potchefstroom, South Africa, 12-15 July 1999. p 91.
22. Venter, G.J. & Paweska, J.T. 1999. Bluetongue, a multi-vector disease in South Africa. *In: Proceedings of the 12th congress of the Entomological Society of Southern Africa*. Potchefstroom, South Africa, 12-15 July 1999. p 130.
23. Venter, G.J., Paweska, J.T., Williams, R. & Nevill, E.M. 1999. Prevalence of antibodies against African horse sickness and equine encephalosis viruses in donkeys in southern Africa. *In: Equine*

infectious diseases VIII: Proceedings of the 8th International Conference, Dubai, 23rd-26th March 1998. P 299–302.

2000

24. Venter, G.J., Graham, S.D. & Hamblin, C. 2000. African horse sickness epidemiology: vector competence of South African *Culicoides* species for African horse sickness virus serotypes 3, 5 and 8. *Medical and Veterinary Entomology*, 14(3), 245–250. doi: 10.1046/j.1365-2915.2000.00245.x

Abstracts - 2000

25. Riegler, L., Venter, G.J., O'Hara, R., Mellor, P.S. & Mertens, P.P.C. 2000. Variation in NS3 of African horse sickness can influence transmission by *Culicoides* vector species. *In: Seventh International Symposium on Double-Stranded RNA Viruses, December 2-7, 2000. Palm Beach, Aruba.*

2002

26. Lord, C.C., Venter, G.J., Mellor, P.S., Paweska, J.T. & Woolhouse, M.E.J. 2002. Transmission patterns of African horse sickness and equine encephalosis viruses in South African donkeys. *Epidemiology and Infection*, 128(2), 265-275. doi: 10.1017/S0950268801006471
27. Paweska, J.T., Venter, G.J. & Mellor, P.S. 2002. Vector competence of South African *Culicoides* species for bluetongue virus serotype 1 (BTV-1) with special reference to the effect of temperature on the rate of virus replication in *C. imicola* and *C. bolitinos*. *Medical and Veterinary Entomology*, 16(1), 10-21. doi: 10.1046/j.1365-2915.2002.00334.x
28. Venter, G.J., Groenewald, D., Venter, E., Hermanides, K.G. & Howell, P.G. 2002. A comparison of the vector competence of the biting midges, *Culicoides (Avaritia) bolitinos* and *C. (A.) imicola*, for the Bryanston serotype of equine encephalosis virus. *Medical and Veterinary Entomology*, 16(4), 372–377. doi/10.1046/j.1365-2915.2002.00385.x/pdf

2003

29. Paweska, J.T., Prinsloo, S. & Venter, G.J. 2003. Oral susceptibility of South African *Culicoides* species to live-attenuated serotype-specific vaccine strains of African horse sickness virus (AHSV). *Medical and Veterinary Entomology*, 17(4), 436–447. doi: 10.1111/j.1365-2915.2003.00467.x
30. Venter, G.J., Hamblin, C. & Paweska, J.T. 2003. Determination of the oral susceptibility of South African live-stock-associated biting midges, *Culicoides* species, to bovine ephemeral fever virus. *Medical and Veterinary Entomology*, 17(2), 133–137. doi: 10.1046/j.1365-2915.2003.00414.x

2004

31. Meiswinkel, R., Venter, G.J. & Nevill, E.M. 2004. Vectors: *Culicoides* spp. *In: Infectious Diseases of Livestock* (ed. by J.A.W. Coetzer and R.C. Tustin), Oxford University Press, Cape Town, p. 93–136.
32. Mellor, P., Tabachnick, W., Baldet, T., Baylis, M., Bellis, G., Calistri, P., Delécolle, J-C., Goffredo, M., Meiswinkel, R., Mullens, B., Scaramozzino, Torina, A., Venter, G.J. & White, D. 2004. Working Group 2 – Vectors. *Veterinaria Italiana*, 40(3), 715–717.
33. Paweska, J.T. & Venter, G.J. 2004. Vector competence of *Culicoides* species and the seroprevalence of homologous neutralizing antibody in horses for six serotypes of equine encephalosis virus (EEV) in South Africa. *Medical and Veterinary Entomology*, 18(4), 398–407. doi 10.1111/j.0269-283X.2004.00524.x
34. Venter, G.J., Gerdes, G.H., Mellor, P.S. & Paweska, J.T. 2004. Transmission potential of South African *Culicoides* species for live-attenuated bluetongue virus. *Veterinaria Italiana*, 40(3), 198-203.

Abstracts - 2004

35. Page, P.C., Guthrie, A.J., Venter, G.J., Labuschagne, K. & Nurton, J. 2004. Duration of repellency against *Culicoides* spp. when applied to polyester mesh. *In: Faculty of Veterinary Science, Faculty Day*, 16 September 2004, p 33.

2005

36. Paweska, J.T., Venter, G.J. & Hamblin, C. 2005. A comparison of the susceptibility of *Culicoides imicola* and *C. bolitinos* to oral infection with eight serotypes of epizootic haemorrhagic disease virus. *Medical and Veterinary Entomology*, 19(2), 200–207. doi: 10.1111/j.0269-283X.2005.00560.x
37. Venter, G.J., Paweska, J.T., Lunt, H., Mellor, P.S. & Carpenter, S. 2005. An alternative method of blood-feeding *Culicoides imicola* and other haematophagous *Culicoides* species for vector competence studies. *Veterinary Parasitology*, 131(3-4), 331–335. doi.org/10.1016/j.vetpar.2005.05.002

2006

35. Carpenter, S., Lunt, H.L., Arav, D., Venter, G.J. & Mellor, P.S. 2006. Oral susceptibility to bluetongue virus of *Culicoides* (Diptera: Ceratopogonidae) from the United Kingdom. *Journal of Medical Entomology*, 43(1), 73–78. doi.org/10.1603/0022-2585(2006)043[0073:OSTBVO]2.0.CO;2

36. Venter, G.J. & Hermanides, K.G. 2006. Comparison of black and white light for collecting *Culicoides imicola* and other livestock-associated *Culicoides* species in South Africa. *Veterinary Parasitology*, 142(3-4), 383–385. doi.org/10.1016/j.vetpar.2006.07.015
37. Venter, G.J., Koekemoer, J.J.O. & Paweska, J.T. 2006. Investigations on outbreaks of African horse sickness in the surveillance zone of South Africa. *Revue Scientifique et Technique, Office International des Epizooties*, 25(3), 1 097–1 109.
38. Venter, G.J., Mellor, P.S. & Paweska, J.T. 2006. Oral susceptibility of South African stock-associated *Culicoides* species to bluetongue virus. *Medical and Veterinary Entomology*, 20(3), 329–334. doi 10.1111/j.1365-2915.2006.00635.x

2007

39. Kappmeier Green, K. & Venter, G.J. 2007. Evaluation and improvement of sticky traps as a monitoring tool for *Glossina austeni* and *G. brevipalpis* (Diptera: Glossinidae) in north-eastern KwaZulu-Natal, South Africa. *Bulletin of Entomological Research*, 97(6), 545–553. doi 10.1017/S0007485307005238
40. Nevill, H., Venter, G.J., Meiswinkel, R. & Nevill, E.M. 2007. Comparative descriptions of the pupae of five species of the *Culicoides imicola* complex (Diptera, Ceratopogonidae) from South Africa. *Onderstepoort Journal of Veterinary Research*, 74(2), 97–114.
41. Venter, G.J. 2007. The oral susceptibility of South African livestock-associated *Culicoides* species to selected Orbiviruses. PhD thesis. University of the Orange Free State.
42. Venter, G.J., Mellor, P.S., Wright, I. & Paweska, J.T. 2007. Replication of live attenuated vaccine strains of bluetongue virus in orally infected South African *Culicoides* species. *Medical and Veterinary Entomology*, 21(3), 239–247. doi 10.1111/j.1365-2915.2007.00687.x
43. Venter, G.J. & Paweska, J.T. 2007. Virus recovery rates for wild-type and live-attenuated vaccine strains of African horse sickness virus serotype 7 in orally infected South African *Culicoides* species. *Medical and Veterinary Entomology*, 21(4), 377–383. doi 10.1111/j.1365-2915.2007.00706.x

2008

44. Racloz, V., Venter, G., Griot, C. & Stärk, K.D.C. 2008. Estimating the temporal and spatial risk of bluetongue related to the incursion of infected vectors into Switzerland. *BMC Veterinary Research*, 4:42. doi 10.1186/1746-6148-4-42.

Abstracts - 2008

45. Venter, G.J., Wright, I.M., Van der Linde, T.C. & Paweska, J.T. 2008. A multi-vector potential for transmitting African horse sickness virus (AHSV) in South Africa. *In: Proceedings of the xxiii International Congress of Entomology*. 6-12 July 2008. Durban, South Africa
46. Veronesi, E., Venter, G., Labuschagne, K., Mellor, P. & Carpenter, S. 2008. Preliminary observations on *Culicoides imicola* colonisation: Notes on larval development at three temperatures under laboratory conditions. *In: Conference Programme & Abstract Book of the 16th European Society for Vector Conference 2008*. Cambridge, UK. 25-28 March 2008. P 105.

2009

47. Nevill, H., Nevill, E.M. & Venter, G.J. 2009. Description and comparison of the pupae of a further two *Culicoides (Avaritia)* species from the dung of large herbivores in South Africa (Diptera: Ceratopogonidae). *Onderstepoort Journal of Veterinary Research*, 76(3), 277-284.
48. Page, P.C., Labuschagne, K., Nurton, J.P., Venter, G.J. & Guthrie, A.J. 2009. Duration of repellency of N,N-diethyl-3-methylbenzamide, citronella oil and cypermethrin against *Culicoides* species when applied to polyester mesh. *Veterinary Parasitology*, 163(1-2), 105-109. doi.org/10.1016/j.vetpar.2009.03.055
49. Venter, G.J., Hermanides, K.G., Boikanyo, S.N.B., Majatladi, D.M. & Morey, L. 2009. The effect of light trap height on the numbers of *Culicoides* collected under field conditions in South Africa. *Veterinary Parasitology*, 166(3-4), 343-345. doi: 10.1016/j.vetpar.2009.09.003
50. Venter, G.J., Labuschagne, K., Hermanides, K.G., Boikanyo, S.N.B., Majatladi, D.M., Morey, L. 2009. Comparison of the efficiency of five suction light traps under field conditions in South Africa for the collection of *Culicoides* species. *Veterinary Parasitology*, 166(3-4), 299–307. doi 10.1016/j.vetpar.2009.08.020
51. Venter, G.J., Wright, I.M., Van der Linde, T.C. & Paweska, J.T. 2009. The oral susceptibility of South African field populations of *Culicoides* to African horse sickness virus. *Medical and Veterinary Entomology*, 23(4), 367-378. doi 10.1111/j.1365-2915.2009.00829.x.
52. Veronesi, E., Venter, G.J., Labuschagne, K., Mellor, P.S. & Carpenter, S. 2009. Life-history parameters of *Culicoides (Avaritia) imicola* Kieffer in the laboratory at different rearing temperatures. *Veterinary Parasitology*, 163(4), 370-373. doi 10.1016/j.vetpar.2009.04.031

Abstracts - 2009

53. Boikanyo, S.N.B. & Venter, G.J. 2009. Preliminary studies on oviposition site preferences of *Culicoides imicola* (Diptera: Ceratopogonidae). *In: Proceeding of the 37th Annual Congress of the Parasitological Society of Southern Africa*, Pretoria, South Africa, 7–9 October 2008, *Journal of the South African Veterinary Association*, 80(2), p 135.

54. Darpel, K.E., Langner, K.F., Venter, G., Hunt, L., Kurian, D., Potgieter, A.C., Attoui, H., Mellor, P., Takamatsu, H.H. & Mertens, P.P.C. 2009. Investigation of saliva proteins from different *Culicoides* species and their Interaction with the bluetongue virus particle. *In: Medreonet Proceedings, Third Annual Meeting, Lisbon, Portugal, 2-4 December 2009, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 142.
55. De Beer, C.J., Venter, G.J. & Latif, A.A. 2009. The relevance of *Glossina austeni* and *Glossina brevipalpis* (Diptera, Glossinidae) colonies for tsetse fly research and management in South Africa. *In: Proceeding of the 37th Annual Congress of the Parasitological Society of Southern Africa, Pretoria, South Africa, 7-9 October 2008, Journal of the South African Veterinary Association*, 80(2), p 136.
56. De Beer, C.J., Venter, G.J. & Potgieter, F.T. 2009. Blood dietary factors that may influence the survival and production in tsetse flies colonies. *In: Proceeding of the 37th Annual Congress of the Parasitological Society of Southern Africa, Pretoria, South Africa, 7-9 October 2008. Journal of the South African Veterinary Association*, 80(2), p 127.
57. Del Rio, R., Venter, G.J., Miranda, M.A., Paredes-Esquivel, C., Lucientes, J., Calvete, C. & Estrada, R. 2009. Virus recovery rates in orally-infected *Culicoides imicola* in South Africa. *In: Medreonet Proceedings, Third Annual Meeting, Lisbon, Portugal, 2-4 December 2009, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 134.
58. Labuschagne, K. & Venter, G.J. 2009. Is the *Culicoides* fauna changing? Port Elizabeth as a case study. *In: Proceeding of the 37th Annual Congress of the Parasitological Society of Southern Africa, Pretoria, South Africa, 7-9 October 2008. Journal of the South African Veterinary Association*, 80(2), p 130.
59. Labuschagne, K. & Venter, G.J. 2009. Seasonal distribution of *Culicoides* spp. on two farms in the Western Cape Province. *In: Proceeding of the 37th Annual Congress of the Parasitological Society of Southern Africa, Pretoria, South Africa, 7-9 October 2008. Journal of the South African Veterinary Association*, 80(2), p 130.
60. Miranda-Chueca, M.A., Del Rio-Lopez, R., Monerris-Mascaro, M., Paredes-Esquivel, C., Miquel-Amer, M., Boras-Boras, D., Calvete, C., Venter, G., Estrada A. & Lucientes J. 2009. Comparison of light traps for collection of adult *Culicoides* in the Balearic Islands and South Africa. *In: 3rd Annual Meeting Epizone "Crossing borders". Antalya, Turkey. 12-15 May 2009*, p 212.
61. Venter, G. & Boikanyo, S. 2009. Preliminary studies on oviposition site preferences of *Culicoides imicola*. *In: Medreonet Proceedings, Second Annual Meeting, Giulianova, Teramo, Italy, 9-11 December 2008, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 108.

62. Venter, G., Hermanides, I., Majatladi, D., Boikanyo, S. & Wright, I. 2009. Oral susceptibility: AHSV serotypes and isolates, and geographic populations. *In: Medreonet Proceedings, Second Annual Meeting, Giulianova, Teramo, Italy, 9-11 December 2008, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 107.
63. Venter, G.J., Labuschagne, K., Boikanyo, S.N.B. & Van den Berg, E. 2009. Comparison of 4 light traps for the collection of *Culicoides* species (Diptera, Ceratopogonidae) under South African conditions. *In: Proceeding of the 37th Annual Congress of the Parasitological Society of Southern Africa, Pretoria, South Africa, 7-9 October 2008. Journal of the South African Veterinary Association*, 80(2), p 135.
64. Venter, G., Labuschagne, K., Hermanides, I., Majatladi, D. & Boikanyo, S. 2009. *Culicoides* trap comparison in South Africa. *In: Medreonet Proceedings, Second Annual Meeting, Giulianova, Teramo, Italy, 9-11 December 2008, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 63, p 98.
65. Venter, G.J., Labuschagne, K., Hermanides, I., Majatladi, D., Boikanyo, S. & Wright, I. 2009. Recent outbreaks of African horse sickness virus in South Africa. *In: Medreonet Proceedings, Second Annual Meeting, Giulianova, Teramo, Italy, 9-11 December 2008, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 104.
66. Venter, G., Labuschagne, K., Liebenberg, J., Hermanides, K., Boikanyo, S., Majatladi, D. & van der Linde, T. 2009. Light trap collection comparisons. *In: Abstracts book of the 3rd Annual MedReoNet meeting, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 47.
67. Venter, G., Wright, I., Del Rio, R., Majatladi, D., Hermanides, S^(sic). K & Miranda-Chueca, M.A. 2009. *Culicoides imicola* as a vector of bluetongue virus serotype 8. *In: Medreonet Proceedings, Third Annual Meeting, Lisbon, Portugal, 2-4 December 2009, Revue d'élevage et de Médecine Vétérinaire des pays Tropicaux*, 62, p 127.

2010

68. Venter, G.J., Wright, I.M. & Paweska, J.T. 2010. A comparison of the susceptibility of the biting midge *Culicoides imicola* to infection with recent and historical isolates of African horse sickness virus. *Medical and Veterinary Entomology*, 24(3), 324–328.

Abstracts - 2010

69. De Beer, C.J. & Venter, G.J. 2010. Colonization of tsetse flies as a prerequisite for the use of sterile insect technique in South Africa. *In: Proceedings of 18th WIN Global Annual Conference, 9-14 May 2010, Paradise Hotel Busan, Korea.*

2011

70. Carpenter, S., Wilson, A., Barber, J., Veronesi, E., Mellor, P., Venter, G.J. & Gubbins, S. 2011. Temperature dependence of the incubation period of orbiviruses in *Culicoides* biting midges. *Plos ONE*, 6, doi.org/10.1371/journal.pone.0027987.
71. Cêtre-Sossah, C., Balenghien, T., Martinez, D., Albina, E., Garros, C., Giovannini, V., Conte, A., Miranda, M., Baylis, M., Mertens, P., Carpenter, S., Domingo, M., Casal, J., Zientara, S., Stärk, K., Schwermer, H., Madani, H., Hammami, S., Sghaier, S., Lhor, Y., Ertürk, A., Georgiev, G., Sanchez-Vizcaino, J.M., Patakakis, M., Boinas, F., Venter, G., Beer, M., Hoffmann, B., De Clercq, K., Van Rijn, P. & Botner, A. 2011. Strengthening cooperation on vectorborne diseases in Europe. *Veterinary Record*, 166(13), 386–387. doi:10.1136/vr.c970
72. Del Rio López, R., Miranda, M.A., Paredes-Esquivel, C., Lucientes, J., Calvete, C., Estrada, R. & Venter, G.J. 2011. Recovery rates of bluetongue virus serotypes 1, 2, 4 and 8 Spanish strains from orally infected *Culicoides imicola* in South Africa. *Medical and Veterinary Entomology*, 26(2), 162–167. doi: 10.1111/j.1365-2915.2011.00990.x.
73. Scheffer, E.G., Venter, G.J., Joone, C., Osterrieder, N. & Guthrie, A.J. 2011. Use of real-time reverse transcription polymerase chain reaction for the detection of African horse sickness virus replication in *Culicoides imicola*. *Onderstepoort Journal of Veterinary Research*, 78(1), Art. #344, 4 pages. doi: 10.4102/ovjr.v78i1.344.
74. Venter, G.J., Labuschagne, K., Boikanyo, S.N.B., Majatladi, D.M. & Morey, L. 2011. The effect of 1-octen-3-ol and 4-methylphenol on *Culicoides* midge numbers collected with suction light traps in South Africa, *Veterinary Parasitology*, 175(1-2), 182–186. doi: 10.1016/j.vetpar.2010.09.010.
75. Venter, G.J., Labuschagne, K., Boikanyo, S.N.B., Morey, L. & Snyman, M.G. 2011. The repellent effect of organic fatty acids on *Culicoides* midges as determined with suction light traps in South Africa. *Veterinary Parasitology*, 181(2-4), 365–369. doi: 10.1016/j.vetpar.2011.04.034.
76. Venter, G.J., Wright, I.M., Del Rio, R., Lucientes, J. & Miranda, M.A. 2011. The susceptibility of *Culicoides imicola* and other South African livestock-associated *Culicoides* species to infection with bluetongue virus serotype 8. *Medical and Veterinary Entomology*, 25(3), 320–326. doi: 10.1111/j.1365-2915.2010.00931.x.

Abstracts - 2011

77. Labuschagne, K. & Venter, G.J. 2011. Light Trapping of *Culicoides* (Diptera: Ceratopogonidae) biting midges. *In: Proceedings of the 30th World Veterinary Congress, 10 -14 October 2011, Cape Town International Convention Centre.* p 120

2012

78. Becker, E., Venter, G.J., Labuschagne, K., Greyling, T. & Van Hamburg, H. 2012. Occurrence of *Culicoides* species in the Khomas region of Namibia during the winter months. *Veterinaria Italiana*, 48(1), 45–54.
79. De Beer, C.J., Venter, G.J. & Potgieter, F. 2012. Developing Quality control procedures to sustain a supply of high quality blood for mass rearing tsetse flies. *Quality control for expanded tsetse production, Sterilization and Field Application*, IAEA-TECDOC-1683, p 5–23.
80. Manole, V., Laurinmäki, P., Van Wyngaardt, W., Potgieter, A.C., Wright, I.M., Venter, G.J. & Van Dijk, A.A., Sewell, B.T. & Butcher, S.J. 2012. Structural insight into African horsesickness virus infection. *Journal of Virology*, 86(15), 7858–7866. doi: 10.1128/JVI.00517-12.
81. Scheffer, E.G., Venter, G.J., Labuschagne, K., Page, P.C., Mullens, B.A., MacLachlan, N.J., Osterrieder, N. & Guthrie, A.J. 2012. Comparison of two trapping methods for *Culicoides* biting midges and determination of African horse sickness virus prevalence in midge populations at Onderstepoort, South Africa. *Veterinary Parasitology*, 185(2-4), 265-273. doi 10.1016/j.vetpar.2011.09.037
82. Venter, G.J., Labuschagne, K., Boikanyo, S.N.B. & Morey, L. 2012. The effect of high frequency sound on *Culicoides* numbers collected with suction light traps. *Journal of the South African Veterinary Association* 83(1), Art. #10, 5 pages. doi.org/10.4102/jsava.V83i1.10
83. Venter, G.J., Majatladi, D.M., Labuschagne, K., Boikanyo, S.N.B. & Morey, L. 2012. The attraction range of the Onderstepoort 220 V light trap for *Culicoides* biting midges as determined under South African field conditions. *Veterinary Parasitology*, 190(1-2), 222–229. doi 10.1016/j.vetpar.2012.05.019.

Abstracts - 2012

84. De Beer, C.J. & Venter, G.J. 2012. Evaluation of Radiation sensitivity of *Glossina brevipalpis* and *Glossina austeni* (Diptera, Glossinidae). *In: Proceedings of the 41st Annual congress of the Parasitological Society of Southern Africa*. 1-3 October 2012. Bloemfontein, South Africa.
85. De Beer, C.J. & Venter, G.J. 2012. Tsetse flies in the conservation areas of North-Eastern parts of KwaZulu-Natal. *In: Proceedings of the 41st Annual congress of the Parasitological Society of Southern Africa*. 1-3 October 2012. Bloemfontein, South Africa.
86. Fick, W.C., Maritz-Olivier, C., Venter G.J. & Kekoa, E. 2012. Adapting a novel vector-control mechanism for the haematophagous midge *Culicoides imicola* in South Africa. *In: Abstract book of the 5th Gauteng Agriculture and Rural Development Annual Research Symposium*, p 15.
87. Page, P.C., Labuschagne, K., Venter, G.J., Schoeman, J.P. & Guthrie, A.J. 2012. Efficacy of alpha-cypermethrin treated mesh against African horse sickness vectors. *In: Abstract book of the 9th*

International Conference on Equine Infectious Diseases (EID IX), Lexington, Kentucky, USA, 21-26 October 2012. *Journal of Equine Veterinary Science*, 32, S79.

88. Page, P.C., Labuschagne, K., Venter, G.J., Schoeman, J.P. & Guthrie, A.J. 2012. Efficacy of alphacypermethrin treated mesh against *Culicoides* biting midges. *In: Faculty of Veterinary Science, Faculty Day, 6 September 2012, p 10.*
89. Venter, G.J. 2012. Overwintering of African horse sickness virus (AHSV) in *Culicoides* species (Diptera: Ceratopogonidae) -Seasonal abundance of adult midges. *In: Abstract book of the 5th Agriculture and Rural Development Research Symposium. p 14.*

2013

90. Bakhoun, M.T., Fall, M., Fall, A.G., Bellis, G.A., Gottlieb, Y., Labuschagne, K., Venter, G.J., Diop, M., Mall, I., Seck, M.T., Allène, X., Diarra, M., Gardès, L., Bouyer, J., Delécolle, J-C., Balenghiem, T. & Garros, C. 2013. First record of *Culicoides oxystoma* Kieffer and diversity of species within the Schultzei Group of *Culicoides* Latreille (Diptera: Ceratopogonidae) biting midges in Senegal. *PLoS One*, 8(12), 1–8. doi.org/10.1371/journal.pone.0084316
91. Becker, E., Venter, G.J., Labuschagne, K., Greyling, T. & Van Hamburg, H. 2013. The effect of anthropogenic activity on the occurrence of *Culicoides* species in the South-Western Khomas Region, Namibia. *Veterinaria Italiana*, 49(3), 277–284. doi 10.12834/VetIt.1011.10.
92. Venter, G.J., Labuschagne, K., Boikanyo, S.N.B. & Morey, L. 2013. The suitability of the Triple trap for the collection of South African livestock-associated *Culicoides* species. *Journal of the South African Veterinary Association* 84(1), Art. #994, 5 pages. <http://dx.doi.org/10.4102/jsava.v84i1.994>.

Abstracts - 2013

93. Fick, W.C., Maritz-Olivier, C., Venter, G.J. & Kekoka, E. 2013. Identification, comparative analyses and in vitro knock-down of subolesin in *Culicoides* biting midges. *In: 6th Annual Agriculture Symposium, p 21.*
94. Venter, G.J. 2013. Overwintering of African horse sickness virus (AHSV) in *Culicoides* species (Diptera: Ceratopogonidae) – virus detection. *In: 6th Annual Agriculture Research Symposium, p 26.*

2014

95. González, M., Venter, G.J., López, S., Iturrondobeitia, J.C. & Goldarazena, A. 2014. Laboratory and field evaluations of chemical and plant-derived potential repellents against *Culicoides* biting midges in northern Spain. *Medical and Veterinary Entomology*, 28(4), 421-431. doi 10.1111/mve.12081.
96. Page, P.C., Labuschagne, K., Venter, G.J., Schoeman, J.P. & Guthrie, A.J. 2014. Field and in vitro insecticidal efficacy of alphacypermethrin-treated high density polyethylene mesh against *Culicoides*

- biting midges in South Africa. *Veterinary Parasitology*, 203(1-2), 184–188. doi 10.1016/j.vetpar.2014.02.051. Epub 2014 Mar 6.
97. Venter, G.J., Labuschagne, K., Boikanyo, S.N.B. & Morey, L. 2014. Assessment of the repellent effect of citronella and lemon eucalyptus oil against South African *Culicoides* species. *Journal of the South African Veterinary Association* 85(1), Art. #992, 5 pages. doi. org/10.4102/jsava.v85i1.992.
98. Venter, G.J., Labuschagne, K., Majatladi, D., Boikanyo, S.N.B., Lourens, C., Ebersohn, K. & Venter, E.H. 2014. *Culicoides* species abundance and potential over-wintering of African horse sickness virus in the Onderstepoort area, Gauteng, South Africa. *Journal of the South African Veterinary Association*, 85(1), Art. #1102, 6 pages. Doi: 10.4102/jsava.v85i1.1102.
99. Verhoef, F.A., Venter, G.J. & Weldon, C.W. 2014. Thermal limits of two biting midges, *Culicoides imicola* Kieffer and *C. bolitinos* Meiswinkel (Diptera: Ceratopogonidae). *Parasites and Vectors*, 7 (384) doi: [10.1186/1756-3305-7-384](https://doi.org/10.1186/1756-3305-7-384)

Abstracts - 2014

100. De Beer, C.J. & Venter, G.J. 2014. Assessment the factor of age on the mating competitiveness of *Glossina brevipalpis* males under field cage conditions. *In: Abstract book of the 19th E-SOVE conference, 13-17 October 2014, Thessaloniki, Greece, p 70.*
101. Fick, W.C., Venter, G.J., Rubagotti, E. & Sterck, L. 2014. Candidates for functional knockdown identified from transcriptome of *Culicoides imicola*. *In: Abstract book of Bluetongue and related orbiviruses. IV International Conference, 5-7 November 2014, Rome, Italy, p 76–77.*
102. Steyn, J., Venter, G.J., Coetzee, P. & Venter, E.H. 2014. Epidemiology of bluetongue virus in Minsi, Mpumalanga. *In: Faculty of Veterinary Science, Faculty Day, 4 September 2014, p 36.*
103. Steyn, J., Venter, G.J., Coetzee, P. & Venter, E.H. 2014. Epidemiology of bluetongue virus in Mnisi, South Africa. *In: Abstract book of Bluetongue and related orbiviruses. IV International Conference, 5-7 November 2014, Rome, Italy, p 131–132.*
104. Venter, E.H., Steyn, J., Coetzee, P., Van Vuuren, M., Crafford, J., Schutte, C. & Venter, G. 2014. Epidemiology of bluetongue and African horse sickness: A South African perspective. *In: Abstract book of Bluetongue and related orbiviruses. IV International Conference, 5-7 November 2014, Rome, Italy, p 98–99.*
105. Venter, G., Boikanyo, S.N.B., Majatladi, D.M. & Morey, L. 2014. The effect of carbon dioxide on *Culicoides* midge (Diptera: Ceratopogonidae) collected with the Onderstepoort and CDC traps in South Africa. *In: Abstract book of the 19th E-SOVE conference, 13-17 October 2014, Thessaloniki, Greece, p 78.*

106. Venter, G.J. 2014. *Culicoides* (Diptera: Ceratopogonidae) as vectors of bluetongue virus in South Africa. In: Abstract book of Bluetongue and related orbiviruses. IV International Conference, 5-7 November 2014, Rome, Italy, p 99–100.

2015

107. Carpenter, S., Veronesi, E., Mullens, B. & Venter, G. 2015. Vector competence of *Culicoides* for arboviruses: three major periods of research, their influence on current studies and future directions. *Revue scientifique et technique, Office International des Epizooties*, 34(1), 97–112.
108. De Beer, C.J., Venter, G.J. & Vreysen, M.J.B. 2015. Determination of the optimal mating age of colonised *Glossina brevipalpis* and *Glossina austeni* using walk-in field cages in South Africa. *Parasites and Vectors*, 8:467. doi: 10.1186/s13071-015-1073-1
109. Jacquet, S., Garros, C., Lombaert, E., Walton, C., Restrepo J., Allene, X., Baldet, T., Cetre-Sossah, C., Chaskopoulou, A., Delecolle, J.-C., Desvars, A., Djerbal, M., Fall, M., Gardes, L., De Garine-Wichatitsky, M. Goffredo, M., Gottlieb, Y., Gueye Fall, A., Kasina, M., Labuschagne, K., Lhor, Y., Lucientes, T., Martin, Mathieu, B., Miranda, M., Pages, N., Pereira Da Fonseca, I., Ramilo, D.W., Segard, A., Setier-Rio, M.-L., Stachurski, F., Tabbabi, A., Talla Seck, M., Venter, G., Zimba, M., Balenghien, T., Guis, H., Chevillon, C., Bouyer, J. & Huber, K. 2015. Colonization of the Mediterranean basin by the vector biting midge species *Culicoides imicola*: an old story. *Molecular Ecology*, 24, 5707–5725. doi 10.1111/mec.13422.
110. Onyango, M.G., Michuki, G.N., Ogugo, M., Venter, G.J., Miranda, M.A., Elissa, N., Djikeng, A., Kemp, S., Walker, P.J. & Duchemin, J-B. 2015. Delineation of the population genetic structure of *Culicoides imicola* in East and South Africa. *Parasites and Vectors*, 8:660. Doi: 10.1186/s13071-015-1277-4.
111. Page, P.C., Labuschagne, K., Venter, G.J., Schoeman, J.P. & Guthrie, A.J. 2015. Efficacy of alphacypermethrin-treated high density polyethylene mesh applied to jet stalls housing horses against *Culicoides* biting midges in South Africa. *Veterinary Parasitology*, 210(1-2), 84–90. doi: 10.1016/j.vetpar.2015.02.007
112. Purse, B.V., Carpenter, S., Venter, G.J., Bellis, G. & Mullens, B.A. 2015. Bionomics of temperate and tropical *Culicoides* midges: Knowledge gaps and consequences for transmission of *Culicoides*-borne viruses. *Annual Review of Entomology*, 60, 373–392. doi: 10.1146/annurev-ento-010814-020614.
113. Steyn, J., Venter, G.J., Coetzee, P. & Venter, E.H. 2015. The epidemiology of bluetongue virus in Minisi, South Africa. *American Journal of Epidemiology and Infectious Disease*, 3(5), 95–102. doi: 10.12691/ajeid-3-5-2

114. Venail, R., Lhoir, J., Fall, M., Del Rio, R., Talavera, S., Labuschagne, K., Miranda, M., Pages, N., Venter, G., Rakotoarivony, I., Allène, X., Scheid, B., Gardès, L., Gimonneau, G., Lancelot, R., Garros, C., Cêtre-Sossah, C., Balenghien, T., Carpenter, S. & Baldet, T. 2015. How do species, population and active ingredient influence insecticide susceptibility in *Culicoides* biting midges (Diptera: Ceratopogonidae) of veterinary importance? *Parasites and Vectors*, 8:439. Doi: 10.1186/s13071-015-1042-8

Abstracts - 2015

115. De Beer, C.J., Venter, G.J., Motloang, M.A. & Latif, A.A. 2015. Tsetse abundance and nagana prevalence in north eastern Kwa-Zulu Natal. *In: Abstracts of a joint ESSA and ZSSA congress. 12-17 July 2015, Rhodes University, Grahamstown, South Africa.*
116. De Beer, C.J., Venter, G.J. & Vreysen, M.J.B. 2015. The competitiveness of sterile male *Glossina brevipalpis* for use in the sterile insect technique (SIT). *In: Abstracts of a joint ESSA and ZSSA congress. 12-17 July 2015, Rhodes University, Grahamstown, South Africa.*
117. Page, P.C., Labuschagne, K., Venter, G.J., Schoeman, J.P. & Guthrie, A.J. 2015. Efficacy of alphacypermethrin-treated high density polyethylene mesh applied to jet stalls housing horses against African horse sickness vectors. *In: Faculty of Veterinary Science, Faculty Day, 20 August 2015, p 20.*
119. Venter, G.J. 2015. Light traps as a tool to evaluate attractants and repellents against *Culicoides* midges. *In: Abstracts of a joint ESSA and ZSSA congress. 12-17 July 2015, Rhodes University, Grahamstown, South Africa.*

2016

120. De Beer, C.J., Venter, G.J., Kappmeier Green, K., Esterhuizen, J., De Klerk, D.G., Ntshangase, J., Vreysen, M.J.B., Pienaar, R., Motloang, M., Ntantiso, L. & Latif, A. 2016. An update of the tsetse fly (Diptera: Glossinidae) distribution and African animal trypanosomosis prevalence in north-eastern KwaZulu-Natal, South Africa. *Onderstepoort Journal of Veterinary Research*, 83(1), a1172. [doi: 10.4102/ovjvr.v83i1.1172](https://doi.org/10.4102/ovjvr.v83i1.1172)
121. De Beer, C.J., Venter, G.J. & Vreysen, M.J.B. 2016. Improving the diet for the rearing of *Glossina brevipalpis* Newstead and *Glossina austeni* Newstead: blood source and collection - processing - feeding procedures. *PLoS ONE*. 11, (12): e0168799. Doi 10.1371/journal.pone.0168799
122. De Waal, T., Liebenberg, D., Venter, G.J., Mienie, C.M.S. & Van Hamburg, H. 2016. Detection of African horse sickness virus in *Culicoides imicola* pools using RT-qPCR. *Journal of Vector Ecology*, 41(1), 179–185. doi: 10.1111/jvec.12210

123. Liebenberg, D., Piketh, S., Labuschagne, K., Venter, G., Greyling, T., Mienie, C., de Waal, T. & Van Hamburg, H. 2016. *Culicoides* species composition and environmental factors influencing African horse sickness distribution at three sites in Namibia. *Acta Tropica*, 163, 70–79. Doi: 10.1016/j.actatropica.2016.07.024
124. Renda, S., De Beer, C.J., Venter, G.J. & Thekiso, O.M.M. 2016. Evaluation of larviposition site selection of *Glossina brevipalpis*. *Veterinary Parasitology*, 215, 92-95. doi: 10.1016/j.vetpar.2015.11.012.
125. Steyn, J., Venter, G.J., Labuschagne, K., Majatladi, D., Boikanyo, S.N.B., Lourens, C., Ebersohn, K. & Venter, E.H. 2016. Possible over-wintering of bluetongue virus in *Culicoides* populations in the Onderstepoort area, Gauteng, South Africa. *Journal of the South African Veterinary Association*, 87(1), a1371. doi: 10.4102/jsava.v87i1.1371.
126. Venter, E.H., Steyn, J., Coetzee, P., Vuuren, M., Crafford, J., Schütte, C. & Venter, G. 2016. The prevalence of *Culicoides* spp. in 3 geographic areas of South Africa. *Veterinaria Italiana*, 52(3-4), 281-289. doi: 10.12834/VetIt.494.2385.3
127. Venter, G.J. 2016. *Culicoides* spp. (Diptera: Ceratopogonidae) as vectors of bluetongue virus in South Africa – a review. *Veterinaria Italiana*, 51(4), 325-333. doi 10.12834/VetIt.505.2436.2
127. Venter, G.J., Boikanyo, S.N.B., Majatladi, D.M. & Morey, L. 2016. Influence of carbon dioxide on numbers of *Culicoides* midges collected with suction light traps in South Africa. *Medical and Veterinary Entomology*, 30(1), 117–122. doi: 10.1111/mve.12146

Abstracts - 2016

128. De Beer, C., Venter, G. & Vreysen, M.J.B. 2016. Comparison of geometric morphometric markers between South Africa, southern Mozambique and Swaziland tsetse populations. *In: Abstracts of the XXV International Congress of Entomology*, 25-30 September 2016, Orlando, USA. doi: 10.1603/ICE.2016.108119.
129. Fick, W., Venter, G., Karatas, F. & Visser, E. 2016. Differential gene expression profiling induced by blood feeding in the biting midge vector *Culicoides imicola*. *In: Abstracts of the XXV International Congress of Entomology*, 25-30 September 2016, Orlando, USA. doi: 10.1603/ICE.2016.117657.
130. Onyango, M., Ngondi, G., Ogugo, M., Venter, G., Miranda, M., Elissa, N., Djikeng, A., Kemp, S., Walker, P. & Duchemin, J-B. 2016. Delineation of the population genetic structure of *Culicoides imicola* in east and South Africa. *In: Abstracts of the XXV International Congress of Entomology*, 25-30 September 2016, Orlando, USA. doi: 10.1603/ICE.2016.106511.
131. Page, P.C., Labuschagne, K., Venter, G.J., Ganswindt, A., Schoeman, J.P. & Guthrie, A.J. 2016. Effect of alphacypermethrin-treated high density polyethylene mesh applied to jet stalls on African

- horse sickness virus vectors, jet stall microclimate and stress indicators of horses. *Journal of Equine Veterinary Science*, 39, S2-S3. *In: Abstracts of the 10th International Equine Infectious Diseases Conference*. 4-8 April 2016, Buenos Aires, Argentina.
132. Riddin, M., Villet, M. & Venter, G. 2016. African horse sickness virus and *Culicoides* in the Eastern Cape, South Africa. *In: Abstracts of the XXV International Congress of Entomology*, 25-30 September 2016, Orlando, USA. doi: 10.1603/ICE.2016.106484
133. Venter, G. 2016. *Culicoides* (Diptera: Ceratopogonidae) as vectors of African horse sickness virus in South Africa. *In: Abstracts of the XXV International Congress of Entomology*, 25-30 September 2016, Orlando, USA. doi: 10.1603/ICE.2016.93165

2017

134. Bakhoum, M.T., Labuschagne, K., Huber, K., Fall, M., Mathiue, B., Venter, G., Gardès, L., Baldet, T., Bouyer, J., Fall, A.G., Gimonneau, G. & Garros, C. 2017. Phylogenetic relationships and molecular delimitation of *Culicoides* Latreille (Diptera: Ceratopogonidae) species in the Afrotropical region: interest for the subgenus *Avaritia*. *Systematic Entomology*, 43, 355–371. doi: 10.1111/syen.12279
133. Carpenter, S., Mellor, P.S., Fall, A.G., Garros, C. & Venter, G.J. 2017. African Horse Sickness Virus: History, transmission, and current status. *Annual Review of Entomology*, 62, 343–358. doi: 10.1146/annurev-ento-031616-035010
136. De Beer, C.J., Moyaba, P., Boikanyo, S.N.B., Majatladi, D., Yamada, H., Venter, G.J. & Vreysen, M.J.B. 2017. Evaluation of radiation sensitivity and mating performance of *Glossina brevipalpis* males. *PLoS Neglected Tropical Diseases* 11(3): e0005473. Doi: 10.1371/journal.pntd.0005473.
137. González, M.A., Alarcón-Elbal, P.M., Venter, G.J. & López, S. 2017. Flight and swarming behaviour of *Culicoides* species (Diptera: Ceratopogonidae) on a livestock farm in Northern Spain. *Veterinaria Italiana*, 53(2), 157-166. doi: 10.12834/VetIt.371.1663.4
138. Page, P., Ganswindt, A., Schoeman, J., Venter, G. & Guthrie, A. 2017. The effect of alphacypermethrin-treated mesh protection against African horse sickness virus vectors on jet stall microclimate, clinical variables and faecal glucocorticoid metabolites of horses. *BioMed Central Veterinary Research*, 13, 283. doi 10.1186/s12917-017-1198-x

Abstracts – 2017

139. De Beer, C.J., Boikanyo, S.N.B. & Venter, G.J. 2017. Determination of the efficiency of light-emitting diode suction traps for the collection of *Culicoides imicola* (Diptera: Ceratopogonidae) in South Africa. *In: New Technology conquering old vectors*, Book of Abstracts of the 7th International

- Congress for Vector Ecology (SOVE). (ed. by M.A. Miranda Chueca and B. Alten). 1-6 October 2017. Palma, Spain, p 192.
140. De Beer, C., Venter, G. & Esterhuizen, J. 2017. Evaluation of tiny targets as an additional control technique for *Glossina austeni* and *Glossina brevipalpis* populations in South Africa. *In: Abstracts of the 2017 Combined Congress of the Entomological and Zoological Societies of Southern Africa*. 3-7 July 2017. CSIR, Pretoria, South Africa, p 81.
141. Grewar, J.D., Weyer, C.T., Venter, G., Van Helden, L.S., Burger, P., Russouw, E., Guthrie, A.J., Labuschagne, K., Bührmann, G., Parker, B. & Thompson, P.N. 2017. A field investigation of the African horse sickness outbreak in the controlled area of South Africa in 2016. 9th Veterinary, Paraveterinary & SAVEPM Congress, 24-27 July 2017, Birchwood Hotel & OR Tambo Conference Centre, Kempton Park, South Africa, p 344.
142. Liebenberg, D., Piketh, S., Labuschagne, K., Venter, G. & Greyling, T. 2017. *Culicoides* species composition along an African horse sickness gradient in Namibia. *In: Abstracts of the 2017 Combined Congress of the Entomological and Zoological Societies of Southern Africa*. 3-7 July 2017. CSIR, Pretoria, South Africa, p 360.
143. Riddin, M.A., Venter, G.J. & Villet, M.H. 2017. Clinical expression of African horse sickness in South African horses. 9th Veterinary, Paraveterinary & SAVEPM Congress, 24-27 July 2017, Birchwood Hotel & OR Tambo Conference Centre, Kempton Park, South Africa, p 342.
144. Venter, G.J., Boikanyo, S.N.B. & de Beer, C.J. 2017. Flight behavior of *Culicoides imicola* at controlled temperatures and humidity conditions. *In: New Technology conquering old vector*, Book of Abstracts of the 7th International Congress for Vector Ecology (SOVE). (ed. by M.A. Miranda Chueca and B. Alten). 1-6 October 2017. Palma, Spain, p 135.

2018

- =145. Becker, E., Venter, G.J., Greyling, T., Molini, U. & van Hamburg, H. 2018. Evidence of African horse sickness virus infection of *Equus zebra hartmannae* in the south-western Khomas Region, Namibia. *Transboundary and Emerging Diseases*, 65, 278–280. doi 10.1111/tbed.12651.
146. Drif, K., Venter, G., El Harrak, M., Fihri, O.F., Loutfi, C., Touil, N. & Harif, B. 2018. The value of camels as sentinels for Bluetongue virus in Morocco. *Veterinaria Italiana*, 54(4), 343-348. doi: 10.12834/VetIt.1502.8097.1
147. Venter, G.J., Boikanyo, S.N.B. & de Beer, C.J. 2018. The efficiency of light-emitting diode suction traps for the collection of South African live-stock associated *Culicoides* species. *Medical and Veterinary Entomology*, 32, 509-514. doi 10.1111/mve.12313

Abstracts - 2018

- *148. De Beer, C.J. Boikanyo, S.N.B. & Venter, G.J. 2018. Development of a standardised protocol for the *in vitro* feeding of field-collected *Culicoides imicola* (Diptera: Ceratopogonidae) from South Africa. *In: Abstract book of Book of the E-SOVE 21st Conference, 22-26 October 2018. Palermo, Italy, p 28.*
149. De Beer, C.J. & Venter, G.J. 2018. A preliminary study between vegetation type and climate conditions with *tsetse* (Glossinidae) distribution and abundance in South Africa. *In: Abstract Volume of the 9th International Congress of Dipterology. (ed. by Kirk-Spriggs and Muller, B.). 25-30 November 2018. Windhoek, Namibia, p 61.*
150. De Beer, C.J. & Venter, G.J. 2018. The influence of seasonal variation on geometric morphometrics of *Glossina brevipalpis* Newstead and *Glossina austeni* Newstead from South Africa. *In: Abstract book of Book of the E-SOVE 21st Conference, 22-26 October 2018. Palermo, Italy, p 112.*
151. De Beer, C.J., Venter, G.J. & Mans, B. 2018. Comparing methods for the assessment of blood meal volume of *Culicoides imicola* (Ceratopogonidae) fed on an *in vitro* feeding system. *In: Abstract Volume of the 9th International Congress of Dipterology. (ed. by Kirk-Spriggs and Muller, B.). 25-30 November 2018. Windhoek, Namibia, p 62.*
152. Junker, K., Govender, D., Boomker, J., Venter, G. & Mutafchiev, Y. 2018. Helminth parasites of *Crocodylus niloticus* (Reptillia: Crocodylidae) in the Kruger National Park, South Africa. *In: Abstracts of the 47th PARSAs Conference, 16-18 September 2018, Tshipise Forever Resort, Limpopo, South Africa. P 27.*
153. Venter, G.J. Boikanyo, S.N.B. & de Beer, C.J. 2018. The effect of site selection on light trap efficiency for the collection of *Culicoides* midges. *In: Abstract book of Book of the E-SOVE 21st Conference, 22-26 October 2018. Palermo, Italy, p 43.*

2019

154. De Beer, C.J., Venter, G.J., Vreysen, M.J.B., Mulandane, F.C., Neves, L., Mdluli, S. & Koekemoer, O. 2019. Using genetic and phenetic markers to assess population isolation within the southernmost tsetse fly belt in Africa. *Onderstepoort Journal of Veterinary Research*, **86**(1), a1768. <https://doi.org/10.4102/ojvr.v86i1.1768>
155. Grewar, J.D., Weyer, C.T., Venter, G.J. van Helden, L.S., Burger, P., Guthrie, A.J., Coetzee, P., Labuschagne, K., Bührmann, G., Paker, B.J. & Thompson, P.N. 2019. A field investigation of an African horse sickness outbreak in the controlled area of South Africa in 2016. *Transboundary and Emerging Diseases*, **66**, 743-751 doi: 10.1111/tbed.13077.

156. Riddin, M.A., Venter, G.J., Labuschagne, K. & Villet, M.H. 2019. Bloodmeal analysis in *Culicoides* midges collected near horses, donkeys and zebras in the Eastern Cape, South Africa. *Medical and Veterinary Entomology*, 33, 467–475 doi: 10.1111/mve.12381
157. Riddin, M.A., Venter, G.J., Labuschagne, K. & Villet, M.H. 2019. *Culicoides* species as potential vectors of African horse sickness virus in the southern regions of South Africa. *Medical and Veterinary Entomology*, 33, 498–511 doi: 10.1111/mve.12391
158. Venter, G.J., Boikanyo, S.N.B. & de Beer, C.J. 2019. The influence of temperature and humidity on the flight activity of *Culicoides imicola* both under laboratory and field conditions. *Parasites & Vectors* 12:4. doi: 10.1186/s13071-018-3272-z

2020

159. De Beer, C.J., Moyaba, P., Boikanyo, S.N.B., Majatladi, D., Venter, G.J. & Vreysen, M.J.B. 2020. Gamma irradiation and male *Glossina austeni*, mating performance. *Insects*, 11(8), 522; <https://doi.org/10.3390/insects11080522>
160. De Beer, C.J., Boikanyo, S.N.B., **Venter, G.J.** & Mans, B. 2020. The applicability of spectrophotometry for the assessment of blood meal volume inartificially fed *Culicoides imicola* in South Africa. *Medical and Veterinary Entomology*, 35(1), 141-146. doi: 10.1111/mve.12473
161. Krasnov, B.R., Junker, K., Wood, S., Ueckermann, E.A., Venter, G.J., van der Mescht, L., Heyne, H. & Jacobs, D.S. 2020. Compositional turnover in ecto- and endoparasite assemblages of an African bat, *Miniopterus natalensis* (Chiroptera, Miniopteridae): effects of hierarchical scale and host sex. *Parasitology*, 147(14), 1728–1742. <https://doi.org/10.1017/S0031182020001602> (Early view).

2021

162. De Beer, C.J., Boikanyo, S.N.B. & Venter, G.J. 2021. Assessment of the Hemotek® system for the in vitro feeding of field-collected *Culicoides imicola* (Diptera: Ceratopogonidae) in South Africa. *Medical and Veterinary Entomology*, 35, 177–186 doi: 10.1111/mve.12484
163. De Beer, C.J., Boikanyo, S.N.B. & Venter, G.J. 2021. Evaluation of light emitting diode suction traps for the collection of livestock-associated *Culicoides* species in South Africa. *Medical and Veterinary Entomology*, 35, 408-416 doi: 10.1111/mve.12512
164. De Beer, C.J., Dicko, A.H., Ntshangase, J., Moyaba, P., Taioe, M.O., Mulandane, F.C., Neves, L., Mdluli, S., Guerrini, L., Bouyer, J., Vreysen, M.J.B. & **Venter, G.J.** (2021). A distribution model for *Glossina brevipalpis* and *Glossina austeni* in Southern Mozambique, Eswatini and South Africa for enhanced area-wide integrated pest management approaches. *PLoS Neglected Tropical Diseases*, 15(11), e0009989. <https://doi.org/10.1371/journal.pntd.0009989>

165. Duchemin, J-B., White, J.R., Di Rubbo, A., Shi, S., Venter, G.J., Holmes, I. & Walker, P.J. 2021. Experimental bluetongue virus infection of *Culicoides austropalpalis*, collected from a farm environment in Victoria, Australia. *Veterinaria Italiana*, 57(4), 341-345. doi: 10.12834/VetIt.2114.12867.1
166. Goffredo, M., Quaglia M., De Ascentis, M., d'Alessio S.G., Federici, V., Conte, A. & Venter, G.J. 2021. The absence of abdominal pigmentation in livestock associated *Culicoides* following artificial blood feeding and the epidemiological implication for Arbovirus surveillance. *Pathogens*, 10, 1571. <https://doi.org/10.3390/pathogens10121571>
167. Pilgrim, J., Siozios, S., Baylis, M., Venter, G., Garros, C. & Hurst, G.D.D. 2021. *Cardinium* symbiosis as a potential confounder of mtDNA based phylogeographic inference in *Culicoides imicola* (Diptera: Ceratopogonidae), a vector of veterinary viruses. 14, 100, <https://doi.org/10.1186/s13071-020-04568-3>
168. Pilgrim, J., Siozios, S., Baylis, M., Venter, G., Garros, C. & Hurst, G.D.D. 2021. Identifying potential candidate *Culicoides* spp. for the study of interactions with *Candidatus Cardinium hertigii*, *Medical and Veterinary Entomology*, 35, 501-506 doi: 10.1111/mve.12517
169. Snyman, J., Snyman, L.P., Labuschagne, K., Venter, G.J. & Venter, M. 2021. The utilisation of CytB and COI barcodes for the identification of bloodmeals and *Culicoides* species (Diptera: Ceratopogonidae) reveals a variety of novel wildlife hosts in South Africa. *Acta Tropica*, 219, 105913. <https://doi.org/10.1016/j.actatropica.2021.105913>
170. Snyman, J., Venter, G.J. & Venter, M. 2021. An investigation of *Culicoides* (Diptera: Ceratopogonidae) as potential vectors of medically and veterinary important arboviruses in South Africa. *Viruses*, 13, 1978. <https://doi.org/10.3390/v1310197>

2022

171. Venter, G.J., Sebitsang, S.S., Swart, V.R., Boikanyo, S.N.B. & de Beer, C.J. 2022. Comparison of the efficiency of the Onderstepoort- and Centres for Disease Control ultraviolet light traps for the collection of livestock associated *Culicoides* species in South Africa. *Medical and Veterinary Entomology*, 36, 113-126. doi: 10.1111/mve.12558