

Publication List

Anita L Michel, Dr. med. vet., PhD

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(I) Published Papers

2017

96. Miller M, Michel A, van Helden P, Buss P. Tuberculosis in Rhinoceros: An Underrecognized Threat? *Transbound Emerg Dis*. Accepted for publication 2016 Mar 20. doi: 10.1111/tbed.12489. [Epub ahead of print].
95. BZ Katale · EV Mbugi · KK Siame · JD Keyyu · S Kendall · RR Kazwala · HM Dockrell · RD Fyumagwa · AL Michel · M Rweyemamu · EM Streicher · RM Warren · P van Helden · MI Matee. 2017. Isolation and Potential for Transmission of *Mycobacterium bovis* at Human-livestock-wildlife Interface of the Serengeti Ecosystem, Northern Tanzania. *Transboundary and Emerging Diseases*; 64(3):815-825. doi: 10.1111/tbed.12445.
94. A.O. Jenkins, Michel A., Rutten, V. Original Mycobacterial Sin, a consequence of highly homologous antigens? *Veterinary Microbiology*, 203:286-293.
93. Gcebe, N., Rutten, V., Gey van Pittius, N., Naicker, B., Michel, A. *Mycobacterium malmesburyense* sp. nov: A novel non-tuberculous Mycobacterium species revealed by multiple gene sequence characterization. *International Journal of Systematic and Evolutionary Microbiology*. Accepted for publication.
92. Anzaan Dippenaar, Sven David Charles Parsons, Michele Ann Miller, Tiny Hlokwe, Nicolaas Claudius Gey van Pittius, Arnab Pain, Robin Mark Warren, Anita L Michel, Paul David van Helden. Point source introduction of *M. bovis* at the wildlife-livestock interface can lead to clonal expansion of the disease in a single ecosystem. *Infection, Genetics and Evolution*. 51, 235-238.
91. Mbugi, E.V., Katale, B.Z., Lupindu, A.M., Keyyu, J.D., Kendall, S.L., Dockrell, H.M., Michel, A.L., Matee, M.I., van Helden, P.D. 2017. Tuberculosis infection: Occurrence and risk factors in presumptive TB patients of the Tanzanian Serengeti ecosystem. *East African Health Research Journal*, 1 (1). http://www.eac.int/sites/default/files/docs/eahrj_i1v1_0.pdf
90. Barrows, M., Koepfel, K., Michel, A., Mitchell, E. 2017. Mycobacterial arthritis and synovitis in painted reed frogs (*Hyperolius marmoratus*). *Journal of Comparative Pathology*, 156, 275-280. DOI: [10.1016/j.jcpa.2017.01.005](https://doi.org/10.1016/j.jcpa.2017.01.005).
89. Ghebremariam, M.K., A.L. Michel, M. Nielen, J.C.M. Vernooij, V.P.M.G. Rutten. 2017. Farm level risk factors associated with bovine tuberculosis in the dairy sector in Eritrea. *Transboundary and Emerging Diseases*. DOI: 10.1111/tbed.12622
88. Angela C. Brüns, Tanner M, Williams MC, Botha L. O'Brien A, Fosgate GT, Van Helden PD, Clarke J, **Michel AL**. 2017. Diagnosis and implications of *Mycobacterium bovis* infection in banded mongooses (*Mungos mungo*) in the Kruger National Park, South Africa. *J Wildl Dis*. 53(1), 2017, pp. 19–29.

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87. Van der Heijden, E.M.D.L., Jenkins, A.O., Cooper, D.V., Rutten, V.P.M.G., Michel, A .L. 2016. Field application of immunoassays for the detection of *Mycobacterium bovis* infection in the African buffalo (*Syncerus caffer*). *Veterinary Immunology and Immunopathology* 169 (2016) 68–73.
86. BZ Katala · EV Mbugi · KK Siame · JD Keyyu · S Kendall · RR Kazwala · HM Dockrell · RD Fyumagwa · AL Michel · M Rweyemamu · EM Streicher · RM Warren · P van Helden · MI Matee. 2016. Isolation and Potential for Transmission of *Mycobacterium bovis* at Human-livestock-wildlife Interface of the Serengeti Ecosystem, Northern Tanzania. *Transboundary and Emerging Diseases*. In press. 2015 Nov 13. doi: 10.1111/tbed.12445. [Epub ahead of print].
85. Musoke, J, & Michel A.L. 2016. Tuberculosis patients characteristics and evaluation of compliance at clinics in a rural community from Mpumalanga province, South Africa to the national TB management guidelines. *Southern African Journal of Infectious Diseases*; 1(1):1–3 <http://dx.doi.org/10.1080/23120053.2016.1156879>
84. Mbugi EV, Katala BZ, Streicher EM, Keyyu JD, Kendall SL, Dockrell HM, **Michel AL**, Rweyemamu MM, Warren RM, Matee MI, van Helden PD, Couvin D, Rastogi N. 2016. Mapping of *Mycobacterium tuberculosis* Complex Genetic Diversity Profiles in Tanzania and Other African Countries. *PLoS One*. 2016 May 5;11(5):e0154571. doi: 10.1371/journal.pone.0154571. eCollection 2016.
83. Hlokwe, TM, , De Klerk-Lorist LM and **Michel AL**. 2016. Wildlife on the move: A hidden tuberculosis threat through introduction of untested species in an ecosystem. *J Wildl Dis*. 2016 Oct;52(4):837-843.
82. Gcebe, N, **Michel AL**, Gey van Pittius N, Rutten, V. 2016. Comparative genomics and proteomic analysis of four non-tuberculous *Mycobacterium* species and *Mycobacterium tuberculosis* complex: occurrence of shared immunogenic proteins. *Front. Microbiol.* | doi: 10.3389/fmicb.2016.00795
81. Michael K. Ghebremariam · V. P. M. G Rutten · J. C. M. Vernooij · K. Uqbazghi · T. Tesfaalem · T. Butsuamlak · A. M. Idris · M. Nielen · **A. L. Michel**. 2016. Prevalence and risk factors of bovine tuberculosis in dairy cattle in Eritrea. *BMC Veterinary Research*, 12:80, DOI 10.1186/s12917-016-0705-9
80. Hlokwe TM, Sutton, David, Page, Patrick; **Michel, Anita Luise**. 2016. Isolation and molecular characterization of *Mycobacterium bovis* causing pulmonary tuberculosis and epistaxis in a Thoroughbred horse. *BMC Veterinary Research*. 12:179. DOI 10.1186/s12917-016-0813-6.

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78. Musoke, J., Hlokwe, T., Marcotty, T., du Plessis, B.J.A. and **Michel, A.L.** 2015. Spillover of *Mycobacterium bovis* from wildlife to livestock, South Africa. *Emerging Infectious Diseases*. 21(3), 448-451.
77. **Michel, A.L.**, Geoghegan, C., Hlokwe, T., Raseleka, K., Getz, W.M., Marcotty, T. 2015. Longevity of *Mycobacterium bovis* in raw and traditional souring milk as a function of storage temperature and dose. *PLoS ONE*. June 29; 10(6): e0129926. doi: 10.1371/journal.pone.0129926.

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75. Okello, A.L.a , Beange, I.a, Shaw, A.b, Moriyón, I.c, Gabriël, S.d, Bardosh, K.e, Johansen, .V.fax, Saarnak, C.f, Mukaratirwa, S.g, Berkvens, D.d, Welburn, S.C.aax, Gibbs, P.h, de Balogh, K.i.ax, Amajoh, C.j, Meslin, F.X.k, Kock, R.I, Kazibwe, S.W.m, Ducrotoy, M.n, McManus, P.n, Scudamore, J.o, Hattendorf, J.p, Schelling, E.p, Zinsstag, J.p, Tanner, M.p, Dorny, P.q, Victor, B.q, Ocholi, R.r, Kazwala, R.s, Ngowi, H.s, Moser, I.t, Tanner, M.t, Correia-Neves, M.u, Källenius, G.v, Boué, F.w, Pétavy, A.-F.x, Fihri, O.F.y, Traoré, A.z, Afonso, S.aa, Nicolau, Q.aa, Phiri, I.ab, Sikasunge, C.ab, Mwape, K.E.ab, Makungu, C.ab, Waiswa, C.ac, Kabasa, J.D.ac, Hargrove, J.ad, Hendrickx, G.ae, Bryssinckx, W.ae, Marcotty, T.af, Bottieau, E.af, Thys, S.af, Madder, M.af, Schelling, E.ag, Zinsstag, J.ag, Hatz, C.ag, Hattendorf, J.ag, Thrusfield, M.ah, Källenius, G.ai, Kulane, A.ai, Marrone, G.ai, Hendrickx, G.aj, Ducheyne, E.aj, de Groot, B.aj, Michel, A.ak, Venter, L.ak, Perridge, R.ak, Jenkins, A.ak, Rhalem, A.al, Sahibi, H.al, Bouslikhane, M.al, Bakou, S.am, Kone, P.am, Waladjo, A.K.am, Gbati, O.B.am, Binka, F.an, Clerk, C.an, Sackey, S.an, Afari, E.an, Yebuah, N.an, Gibbs, P.ao, de Balogh, K.ap, Abela-Ridder, B.aq, Thiermann, A.ar, Scudamore, J.as, Simoonga, C.at, Hendrickx, G.au, Ducheyne, E.au, de Groot, B.au, Bryssinckx, W.au, Marcotty, T.av, Thys, S.av, Schelling, E.aw, Zinsstag, J.aw. 2015. Raising the political profile of neglected zoonotic diseases: three complementary European Commission-Funded Projects to streamline research, build capacity and advocate for control. *PLoS Neglected Tropical Diseases*. 9(3), 5 March 2015, article number Article number e0003505, 10p.

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73. Hlokwe, T.M., van Helden, P. and Michel, A.L. 2014. Evidence of increasing intra and inter-species transmission of *Mycobacterium bovis* in South Africa: Are we losing the battle? *Preventive Veterinary Medicine*, 115, 10-17.
72. Michel, A.L. 2014. Improving specific disease outcomes through a 'One Health' approach. *Rev. sci. tech. OIE*. 33(2), 583-592.
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70. Rutten, V.P.M.G and Michel, A.L. Tuberculosis in Wildlife, "a risk of *M. bovis* infection for livestock and a hindrance for *M. avium subsp. paratuberculosis* vaccination", In 10. Berlin-Brandenburgischer Rindertag, Oktober 2014, pp 76-79, CUVILLIER VERLAG, Göttingen 2014. ISBN 978-3-95404-779-6.

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68. Michel A.L., Rutten V.P., van helden P.D. Wildlife tuberculosis. Preface. *Transboundary and Emerging Diseases*. DOI: 10.1111/tbed.12099, 60, s1, p i..

67. M. De Garine-Wichatitsky, A. Caron, R. Kock, R. Tschopp, M. Munyeme, M. Hofmeyr, **A. Michel**. 2013. A review of bovine tuberculosis at the wildlife–livestock–human interface in sub-Saharan Africa. *Epidemiology & Infection*, volume 141, 7, pp. 1342-1356.
66. **Michel AL**, Hlokwe TM, Espie IW, van Zijll Langhout M, Koepfel K, Lane E. 2013. Mycobacterium tuberculosis at the human/wildlife interface in a high TB burden country. *Transboundary and Emerging Diseases*. DOI: 10.1111/tbed.12099, 60, s1, 45 – 52.
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60. Bugwesa Z Katala, Erasto V Mbugi, Eson D Karimuribo, Julius D Keyyu, Sharon Kendall, Gibson S Kibiki, Peter Godfrey-Faussett, **Anita L Michel**, Rudovick R Kazwala, Paul van Helden and Mecky I Matee. 2013. Prevalence and risk factors for infection of bovine tuberculosis in indigenous cattle in the Serengeti ecosystem, Tanzania. *BMC Veterinary Research*, 9:267. <http://www.biomedcentral.com/1746-6148/9/267>

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