
Publication list: Ramon Marc Eichenberger (DVM, PhD, Dip.EVPC)

A. Publications in peer-reviewed journals

* indicates equally contributing authors; corresponding authors are underlined

2020

- Bartlett S., Skwarczynski M., Xie X., Toth I., Loukas A., **Eichenberger R.M.** (2020). Development of natural and unnatural amino acid delivery systems against hookworm infection. *PRNANO*. [https://doi.org/10.33218/prnano3\(1\).191210.1](https://doi.org/10.33218/prnano3(1).191210.1)
- Logan J., Pearson M.S., Manda S.S., Choi Y., Field M., **Eichenberger R.M.**, Mulvenna J., Nagaraj S., Fujiwara R.T., Gazzinelli-Guimaraes P., Bueno L., Mati V., Bethony J.M., Mitreva M., Sotillo J., Loukas A. (2020). Comprehensive analysis of human hookworm secreted proteins using a proteogenomic approach. *PLoS Neglected Tropical Diseases*. <https://doi.org/10.1371/journal.pntd.0008237>
- Ryan S.M., **Eichenberger R.M.**, Ruscher R., Giacomini P.R., Loukas A. (2020). Harnessing helminth-driven immunoregulation in the search for novel therapeutic modalities. *PLoS Pathogens*. <https://doi.org/10.1371/journal.ppat.1008508>
- Sotillo J.*, Robinson M.W.*, Kimber M.J., Cucher M., Ancarola M.E., Nejsum P., Marcilla A., **Eichenberger R.M.***, Tritten L.* (2020). The protein and microRNA cargo of extracellular vesicles from parasitic helminths - current status and research priorities. *International Journal for Parasitology*. <https://doi.org/10.1016/j.ijpara.2020.04.010>
- Eichenberger R.M.**, Thomas L.F., Gabriël S., Bobić B., Devleeschauwer B., Robertson L.J., Saratsis A., Torgerson P.R., Braae U.C., Dermauw V., Dorny P. (2020). Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in East, Southeast and South Asia. *Parasites & Vectors*. <https://doi.org/10.1186/s13071-020-04095-1>

2019

- Bartlett S.*, **Eichenberger R.M.***, Nevagi R.J., Ghaffar K.A., Marasini N., Dai Y., Loukas A., Toth I., Skwarczynski M. (2019). Lipopeptide-based oral vaccine against hookworm infection. *The Journal of Infectious Diseases*. <https://doi.org/10.1093/infdis/jiz528>
- Tedla B., Sotillo J., Pickering D., **Eichenberger R.M.**, Ryan S., Becker L., Loukas A., Pearson M. (2019). Novel cholinesterase paralogs of *Schistosoma mansoni* have perceived roles in cholinergic signalling and drug detoxification and are essential for parasite survival. *PLoS Pathogens*. <https://doi.org/10.1371/journal.ppat.1008213>
- Chenery A.L.*, Alhallaf R.*, Agha Z., Ajendra J., Parkinson J., Chan B.H.K., **Eichenberger R.M.**, Dent L., Robertson A.A.B., Kupz A., Masters S.L., Brough D., Loukas A., Sutherland T.E., Allen J.E., Giacomini P.R. (2019). Inflammasome-Independent Role for NLRP3 in Controlling innate antihelminth immunity and tissue repair in the lung. *Journal of Immunology*. <https://doi.org/10.4049/jimmunol.1900640>
- Filbey K.J., Camberis M., Chandler J., Turner R., Kettle A.J., **Eichenberger R.M.**, Giacomini P., Le Gros G. (2019). Intestinal helminth infection promotes IL-5- and CD4+ T cell-dependent immunity in the lung against migrating parasites. *Mucosal Immunology*. <https://doi.org/10.1038/s41385-018-0102-8>
- Saratsis A., Sotiraki S., Braae U.C., Devleeschauwer B., Dermauw V., **Eichenberger R.M.**, Thomas L.F., Bobić B., Dorny P., Gabriël S., Robertson L.J. (2019). Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in the Middle East and North Africa. *Parasites & Vectors*. <https://doi.org/10.1186/s13071-019-3339-5>

- Deplazes P., **Eichenberger R.M.**, Grimm F. (2019). Wildlife-transmitted *Taenia* and *Versteria* cysticercosis and coenurosis in humans and other primates. *International Journal for Parasitology: Parasites & Wildlife*. <https://doi.org/10.1016/j.ijppaw.2019.03.013>
- Wangchuk P., Constantinoiu C., **Eichenberger R.M.**, Field M., Loukas A. (2019). Characterization of tapeworm metabolites using mass spectrometry reveals bioactive small molecules. *Molecules*. <https://doi.org/10.3390/molecules24081480>
- Wangchuk P., Kouremenos K., **Eichenberger R.M.**, Pearson M., Susianto A., Wishart D.S., McConville M.J., Loukas A. Metabolomic profiling of the excretory-secretory products of hookworm and whipworm. *Metabolomics*. <https://doi.org/10.1007/s11306-019-1561-y>
- Hendrickx E., Thomas L.F., Dorny P., Bobić B., Braae U.C., Devleeschauwer B., **Eichenberger R.M.**, Gabriël S., Saratsis A., Torgerson P.R., Robertson L.J., Dermauw V. (2019). Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in West and Central Africa. *Parasites & Vectors*. <https://doi.org/10.1186/s13071-019-3584-7>

2018

- Eichenberger R.M.**, Ryan S., Jones L., Buitrago G., Polster R., Montes de Oca M., Zuvelek J., Giacomini P.R., Dent L.A., Engwerda C.R., Field M.A., Sotillo J., Loukas A. (2018). Hookworm secreted extracellular vesicles interact with host cells and prevent inducible colitis in mice. *Frontiers in Immunology*. <https://doi.org/10.3389/fimmu.2018.00850>
- Eichenberger R.M.**, Sotillo J., Loukas A. (2018). Immunobiology of parasitic worm extracellular vesicles. *Immunology and Cell Biology*. <https://doi.org/10.1111/imcb.12171>
- Eichenberger R.M.***, Talukder H.*, Field M., Wangchuk P., Giacomini P., Loukas A., Sotillo J. (2018). Genomic and proteomic content of small secreted extracellular vesicles from parasitic whipworms specifically interact with host immune system. *Journal of Extracellular Vesicles*. <https://doi.org/10.1080/20013078.2018.1428004>
- Weeks J.C., Suzuki B.M., Leasure C., Robinson K.J., Roberts W.M., H., Wangchuk P., **Eichenberger R.M.**, Saxton A.D., Bird T.D., Kraemer B.C., Loukas A., Hawdon J.M., Caffrey C.R., Liachko N.F. (2018). Sertraline, Paroxetine, and Chlorpromazine are rapidly acting anthelmintic drugs capable of clinical repurposing. *Scientific Reports*. <https://www.nature.com/articles/s41598-017-18457-w>
- Sundaraneedi M., **Eichenberger R.M.**, Al-Hallaf R., Yang D., Sotillo J., Rajan S., Wangchuk P., Giacomini P.R., Keene F.R., Loukas A., Collins J.G., Pearson M.S. (2018). Polypyridylruthenium(II) complexes exert *in vitro* and *in vivo* nematocidal activity and show significant inhibition of parasite acetylcholinesterases. *International Journal for Parasitology: Drugs and Drug Resistance*. <https://doi.org/10.1016/j.ijpddr.2017.11.005>
- Jansen F., Dorny P., Gabriël S., **Eichenberger R.M.**, Berkvens D. (2018). Estimating prevalence and diagnostic test characteristics of bovine cysticercosis in Belgium in the absence of a "gold standard" reference test using a Bayesian approach. *Veterinary Parasitology*. <https://doi.org/10.1016/j.vetpar.2017.07.009>
- Théry C.*, Witwer W.*, Hill A.F. et al. (2018). Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles*. <https://doi.org/10.1080/20013078.2018.1535750>
- Bobić B., Thomas L.F., Djaković O.D., Devleeschauwer B., Dermauw V., Dorny P., Braae U.C., Robertson L., Saratsis A., **Eichenberger R.**, Torgerson P.R. (2018). Epidemiology of *Taenia saginata* taeniosis/cysticercosis in the Russian Federation. *Parasites & Vectors*. <https://doi.org/10.1186/s13071-018-3236-3>

2017

- Eichenberger R.M.**, Ramakrishnan C., Russo G., Deplazes P., Hehl A.B. (2017). Genome-wide analysis of gene expression and protein secretion of *Babesia canis* during virulent infection identifies

potential pathogenicity factors. *Scientific Reports*. <https://www.nature.com/articles/s41598-017-03445-x>

- Eichenberger R.M.***, Štefanić S.*, Naucke T.J., Šarkūnas M., Zamokas G., Grimm F., Deplazes P. (2017). An ELISA for the early diagnosis of acute canine babesiosis detecting circulating antigen of large *Babesia* spp. *Veterinary Parasitology*. <https://doi.org/10.1016/j.vetpar.2017.06.030>
- Sundaraneedi M., Tedla B., **Eichenberger R.M.**, Becker L., Pickering D., Smout M., Rajan S., Keene F.R., Loukas A., Collins J.G., Pearson M.S. (2017). Polypyridylruthenium(II) complexes exert anti-schistosome activity through the inhibition of parasite acetylcholinesterases. *PLOS Neglected Tropical Diseases*. <https://doi.org/10.1371/journal.pntd.0006134>
- Jansen F., Dorny P., Berkvens D., Van Hul A., Van den Broeck N., Makay C., Praet N., **Eichenberger R.M.**, Deplazes P., Gabriël S. (2017). Evaluation of different post-mortem detection techniques for bovine cysticercosis in Belgian slaughterhouses. *Veterinary Parasitology*. <https://doi.org/10.1016/j.vetpar.2018.03.013>
- Ramakrishnan C., Walker R.A., **Eichenberger R.M.**, Deplazes P., Hehl A.B., Smith N.C. (2017). The merozoite-specific protein, TgGRA11B, identified as a component of the *Toxoplasma gondii* parasitophorous vacuole in a tachyzoite expression model. *International Journal for Parasitology*. <https://doi.org/10.1016/j.ijpara.2017.04.001>

2011 - 2016

- Eichenberger R.M.**, Riond B., Willi B., Hofmann-Lehmann R., Deplazes P. (2016). Prognostic markers in acute *Babesia canis* infections. *Journal of Veterinary Internal Medicine*. <https://doi.org/10.1111/jvim.13822>
- Armua-Fernandez M.T.*, Joekel D*, Schweiger A., **Eichenberger R.M.**, Matsumoto J., Deplazes P. (2016). Successful intestinal *Echinococcus multilocularis* oncosphere invasion and subsequent hepatic metacestode establishment in resistant RccHan™:WIST rats after pharmacological immunosuppression. *Parasitology*. <https://doi.org/10.1017/S0031182016000809>
- Eichenberger R.M.**, Deplazes P., Mathis A. (2015). Ticks on dogs and cats: a pet owner based survey in a rural town in northeastern Switzerland. *Ticks and Tick-borne Diseases*. <https://doi.org/10.1016/j.ttbdis.2015.01.007>
- Walker R.A., Sharman P.A., Miller C.M., Lippuner C., Okoniewski M., **Eichenberger R.M.**, Ramakrishnan C., Brossier F., Deplazes P., Hehl A.B., Smith N.C. (2015). RNA Seq analysis of the *Eimeria tenella* gametocyte transcriptome reveals clues about the molecular basis for sexual reproduction and oocyst biogenesis. *BMC Genomics*. <https://doi.org/10.1186/s12864-015-1298-6>
- Eichenberger R.M.**, Lewis F., Gabriël S., Dorny P., Torgerson P.R., Deplazes P. (2013). Multi-test analysis and model-based estimation of the prevalence of *Taenia saginata* cysticercus infection in naturally infected cattle in the absence of a gold standard reference test. *International Journal for Parasitology*. <https://doi.org/10.1016/j.ijpara.2013.05.011>
- Eichenberger R.M.**, Stephan R. Deplazes P. (2011). Increased sensitivity for the diagnosis of *Taenia saginata* cysticercus infection by additional heart examination compared to the EU-approved routine meat inspection. *Food Control*. <https://doi.org/10.1016/j.foodcont.2010.11.033>
- Eichenberger R.M.**, Karvountzis S., Ziadinov I., Deplazes P. (2011). Severe *Taenia ovis* outbreak in a sheep flock in south-west England. *Veterinary Record*. <https://doi.org/10.1136/vr.d887>

B. Publications in non-reviewed journals

- Eichenberger R.M.**, Deplazes P. (2009). Braucht es neue Bekämpfungsstrategien gegen den Rinderfinnenbefall? *Schweizer Zoonosebericht 2008*, 12-15
- Eichenberger R.M.**, Strabel D., Deplazes P. (2011). Bandwurmfinnen beim Rind. *UFA-Revue* 5, 43-6
- Eichenberger R.M.**, Strabel D., Deplazes P. (2011). Cysticerques du ver solitaire. *UFA-Revue* 5, 43-6