



Forschungoutput 2019 – «One Health» Zoonosen

Alinaitwe, Lordrick; Kankya, Clovice; Allan, Kathryn J; Rodriguez-Campos, Sabrina; Torgerson, Paul R; Dreyfus, Anou (2019). Bovine leptospirosis in abattoirs in Uganda: Molecular detection and risk of exposure among workers. *Zoonoses and Public Health*, 66(6):636-646.

Assmuth, T., Chen, X., Degeling, C., Haahtela, T., Irvine, K.N., Keune, H., Kock, R., Rantala, S., Rüegg, S. and Vikström, S., 2019. Integrative concepts and practices of health in transdisciplinary social ecology. *Socio-Ecological Practice Research*, pp.1-20. doi: 10.1007/s42532-019-00038-y.

Baschera, M., Cernela, N., Stevens, M.J., Liljander, A., Jores, J., Corman, V., Nüesch-Inderbinnen, M., Stephan, R. (2019). Shiga toxin-producing *Escherichia coli* (STEC) isolated from fecal samples of African dromedary camels. *One Health* 7,7:100087. doi: 10.1016/j.onehlt.2019.100087.

Charypkhan, Duriya; Sultanov, Akhmetzhan A; Ivanov, Nikolay P; Baramova, Sholpan A; Taitubayev, Mereke K; Torgerson, Paul R (2019). Economic and health burden of brucellosis in Kazakhstan. *Zoonoses and Public Health*, 66(5):487-494.

Deplazes, P., Eichenberger, R., Grimm, F.: Wildlife-transmitted *Taenia* and *Versteria* cysticercosis and coenurosis in humans and other primates, *Parasites and Wildlife* 9 (2019) 342-358. doi: 10.1016/j.ijppaw.2019.03.013.

Fürst, Thomas; Yongvanit, Puangrat; Khuntikeo, Narong; Lun, Zhao-Rong; Haagsma, Juanita A; Torgerson, Paul R; Odermatt, Peter; Bürli, Christine; Chitnis, Nakul; Sithithaworn, Paiboon (2019). Food-borne Trematodiasis in East Asia: Epidemiology and Burden. In: Utzinger, J; Yap, P; Bratschi, M; Steinmann, P. *Neglected Tropical Diseases - East Asia*. Cham: Springer (Bücher), 13-38.

Hartnack, Sonja; Odoch, Terence; Kratzer, Gilles; Furrer, Reinhard; Wasteson, Yngvild; L'Abée-Lund, Trine M; Skjerve, Eystein (2019). Additive Bayesian networks for antimicrobial resistance and potential risk factors in non-typhoidal *Salmonella* isolates from layer hens in Uganda. *BMC Veterinary Research*, 15(1):212.

Hendrickx, E., Thomas, L., F., Dorny, P., Dorny, Bobic, B., Braae, U., C., Devlesschauer, B., Eichenberger, M., R., Gabrel, S., Saratsis, A., Torgerson, R., P., Robertson, J., L., Dermauw, V.: Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in West and Central Africa, *Parasites and Vectors* (2019) 12:324. doi: 10.1186/s13071-019-3584-7.



Hepojoki S, Kareinen L, Strandin T, Vaheri A, Holthöfer H, Mustonen J, Mäkelä S, Hedman K, Vapalahti O, Hepojoki J. Urine and free immunoglobulin light chains as analytes for serodiagnosis of hantavirus infection. *Viruses*. 2019 Sep 1;11(9). pii: E809. doi: 10.3390/v11090809.

Hornok S, Szóke K, Meli ML, Sándor AD, Görföl T, Estók P, Wang Y, Tu VT, Kováts D, Boldogh SA, Corduneanu A, Sulyok KM, Gyuranecz M, Kontschán J, Takács, N, Halajian A, Epis S, Hofmann-Lehmann R., Molecular detection of vector-borne bacteria in bat ticks (Acari: Ixodidae, Argasidae) from eight countries of the Old and New Worlds. *Parasit Vectors*. 2019 Jan 22;12(1):50. doi: 10.1186/s13071-019-3303-4.

Junier, T; Huber, M; Schmutz, S; Kufner, V; Zagordi, O; Neuenschwander, S; Ramette, A; Kubacki, J; Bachofen, C; Qi, W; Laubscher, F; Cordey, S; Kaiser, L; Beuret, C; Barbié, V; Fellay, J; Lebrand, A, Viral Metagenomics in the Clinical Realm: Lessons Learned from a Swiss-Wide Ring Trial. 2019 Aug 28;10(9). pii: E655. doi: 10.3390/genes10090655.

Kindle, P., Nüesch-Inderbilen, M., Cernela, N., Stephan, R. (2019). Detection, isolation and characterization of Shiga toxin-producing *Escherichia coli* (STEC) in flour. *Journal of Food Protection* 82, 164-167.

Kirchner, Florian R; Littringer, Katharina; Altmeier, Simon; Tran, Van Du Thuong; Schönherr, Franziska; Lemberg, Christina; Pagni, Marco; Sanglard, Dominique; Joller, Nicole; LeibundGut-Landmann, Salomé, Persistence of candida albicans in the oral mucosa induces a curbed inflammatory host response that is independent of immunosuppression, *Frontiers in Immunology*, 10.3389/fimmu.2019.00330.

Kuivanen S, Levanov L, Kareinen L, Sironen T, Jääskeläinen AJ, Plyusnin I, Zakhm F, Emmerich P, Schmidt-Chanasit J, Hepojoki J, Smura T, Vapalahti O. Detection of novel tick-borne pathogen, Alongshan virus, in Ixodes ricinus ticks, south-eastern Finland, 2019. *Euro Surveill*. 2019 Jul;24(27). doi: 10.2807/1560-7917.ES.2019.24.27.1900394.

Lahmar, Samia; Torgerson, Paul R; Mhemmed, Hana; Tizaoui, Lamia; Mhadhbi, Néjib; Bani, Abdelkader; Driss, Hanan; Ghrissi, Nébiha; Makhzoumi, Manel; Houidi, Amel Ben; Dhibi, Mokhtar; Said, Yousra; Pozio, Edoardo; Boufana, Belgees (2019). Cystic echinococcosis and other helminth infections of wild boar in northeastern and northwestern regions of Tunisia. *Parasitology*, 146(10):1263-1274.



Landolt, P., Stephan, R., Scherrer, S. (2019). Development of a new High Resolution Melting (HRM) assay for identification and differentiation of *Mycobacterium tuberculosis* complex samples. Scientific Reports 9:1850. <https://doi.org/10.1038/s41598-018-38243-6>.

Landolt, P., Stephan, R., Stevens, M.J.A., Scherrer, S. (2019). Three-reaction high resolution melting (HRM) assay for rapid differentiation of *Mycobacterium tuberculosis* complex members. MicrobiologyOpen e919. doi: 10.1002/mbo3.919.

Li, Min; Havelaar, Arie H; Hoffmann, Sandra; Hald, Tine; Kirk, Martyn D; Torgerson, Paul R; Devleeschauwer, Brecht (2019). Global disease burden of pathogens in animal source foods, 2010. *PLoS ONE*, 14(6):e0216545.

Mulder, Annemieke Christine; Kroneman, Annelies; Franz, Eelco; Vennema, Harry; Tulen, Anna D; Takkinen, Johanna; Hofhuis, Agnetha; Adlhoch, Cornelia, HEVnet: a One Health, collaborative, interdisciplinary network and sequence data repository for enhanced hepatitis E virus molecular typing, characterisation and epidemiological investigations, *Eurosurveillance*, 10.2807/1560-7917.es.2019.24.10.1800407.

Otranto, D., Deplazes, P.: Zoonotic nematodes of wild carnivores, *Parasites and Wildlife* 9 (2019) 370-383. doi: 10.1016/j.ijppaw.2018.12.011.

Pohlmann, A., Hoffmann, D., Grund, C., Koethe, S., Hüsey, D., Meier, S.M., King, J., Schinköthe, J., Ulrich, R., Harder, T., Beer, M. (2019). Genetic characterization and zoonotic potential of highly pathogenic avian influenza virus A (H5N6/H5N5), Germany, 2017-2018. *Emerging Infectious Diseases*, 25, 1973-1976. DOI: <https://doi.org/10.3201/eid2510.181931>.

Ramakrishnan, C., Maier, S., Walker, A., R., Rehrauer, H., Joekel, D., E., Wininger, R., Basso, U., W., Grigg, E., M., Hehl, B., A., Deplazes, P., Smith, C., N.: An experimental genetically attenuated live vaccine to prevent transmission of *Toxoplasma gondii* by cats, *Scientific Reports* (2019) 9:1474. doi: 10.1038/s41598-018-37671-8.

Rüegg, Simon R; Buttigieg, Sandra C; Goutard, Flavie L; Binot, Aurélie; Morand, Serge; Thys, Séverine; Keune, Hans (2019). Editorial: Concepts and experiences in framing, integration and evaluation of One Health and EcoHealth. *Frontiers in Veterinary Science*, 6:1-3.

Sarkunas, M., Vieazindiene, Z., Alvarez Rojas, C., Radziulis, K., Deplazes, P.: Praziquantel treatment of dogs for four consecutive years decreased the transmission of *Echinococcus intermedium* G7 to



pigs in villages in Lithuania, *Food and Waterborne Parasitology* 12 (2019), doi: 10.1016/j.fawpar.2019.e00043.

Saratsis, A., Sotiraki, S., Braae, U., C., Devleeschauwer, B., Dermauw, V., Eichenberger, R., M., Thomas, F., L., Bobic, B., Dorny, P., Gabriel, S., Robertson, J., L.: Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in the Middle East and North Africa, *Parasites and Vectors* (2019) 12:113. doi: 10.1186/s13071-019-3339-5.

Schönbächler, K., Hatt, J.M., Silaghi, C., Merz, N., Fraefel, C., Bachofen, C.: Frühsommer-Meningoenzephalitis-Virus Nachweis beim Europäischen Igel (*Erinaceus europaeus*), *Schweizer Archiv für Tierheilkunde* 161,23-31 (2019). doi: 10.17236/sat00191.

Stevens, M.J.A., Spoerry Serrano, N., Cernela, N., Schmitt, S., Schrenzel, J., Stephan, R. (2019). Massive diversity in whole-genome sequences of *Streptococcus suis* strains from infected pigs in Switzerland. *Microbiology Resource Announcements* 8:e01656-18. doi: 10.1128/MRA.01656-18.

Torgerson, Paul R; Abdybekova, Aida M; Minbaeva, Gulnara; Shapiyeva, Zhanna; Thomas, Lian F; Dermauw, Veronique; Devleeschauwer, Brecht; Gabriël, Sarah; Dorny, Pierre; Braae, Uffe Christian; Saratsis, Anastasios; Robertson, Lucy J; Bobić, Branko (2019). Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in central and western Asia and the Caucasus. *Parasites & Vectors*, 12(1):175.

Trevisan, Chiara; Torgerson, Paul R; Robertson, Lucy J (2019). Foodborne Parasites in Europe: present status and future trends. *Trends in Parasitology*, 35(9):695-703.

Vasic, A., Oslobanu, L., E., Marinov, M., Crivei, L., A., Ratoi, A., Anita, A., Anita, D., Dorosencu, A., Alexe, V., Raileanu, S., Simeunovic, P., Raileanu, C., Falcuta, E., Prioteasa, F., L., Bojkovski, J., Pavlovic, I., Mathis, A., Tews, B., A., Savuta, G., Veronesi, E., Silaghi, C., Scopes Amsar training group: Evidence of West Nile Virus (WNV) Circulation in Wild Birds and WNV RNA Negativity in Mosquitoes of the Danube Delta Biosphere Reserve, Romania, 2016, *Tropical Medicine and Infections Disease* (2019) 4,116. doi: 10.3390/tropicalmed4030116.

Vogler, Barbara R; Hartnack, Sonja; Ziegler, Ute; Lelli, Davide; Vöggtlin, Andrea; Hoop, Richard; Albini, Sarah (2019). Resource-effective serosurveillance for the detection of West Nile Virus in Switzerland using abattoir samples of free-range laying hens. *Vector Borne and Zoonotic Diseases*, 19(3):222-224.



Weber, R., Deplazes, P., Mathis, A.: Microspordia, Manual of Clinical Microbiology (2019), American Society for Microbiology (2019). doi: 10.1111/j.1550-7408.1996.tb05018.x.

Wenker, C., Hoby, S., Wyss, F., Mengiardi, B., Deplazes, P., Gottstein, B.: Alveolar echinococcosis in western lowland gorillas (*Gorilla gorilla gorilla*): Albendazole was not able to stop progression of the disease, Journal of Zoo and Wildlife Medicine 50(1):243-253(2019). doi: 10.1638/2018-0064.