



## Forschungsbildung 2020 – «One Health» Wirkstoffresistenzen

Anes, J., Nguyen, S.V., Eshwar, A.K., McCabe, E., Macori, G., Hurley, D., Lehner, A., Fanning, S. (2020). Molecular characterisation of multi-drug resistant *Escherichia coli* of bovine origin. *Veterinary Microbiology* 242,108566. doi: 10.1016/j.vetmic.2019.108566.

Bleichenbacher, S., Stevens, M.J.A., Zurfluh, K., Perreten, V., Endimiani, A., Stephan, R., Nüesch-Inderbinen, M. (2020). Environmental dissemination of carbapenemase-producing Enterobacteriaceae in rivers in Switzerland, *Environmental Pollution* 265: 115081 doi: <https://doi.org/10.1016/j.envpol.2020.115081>

Emond-Rheault, J.G., Hamel, J., Jeukens, J., Freschi, L., Kukavica-Ibrulj, I., Boyle, B., Tamber, S., Malo, D., Franz, E., Burnett, E., Daigle, F., Arya, G., Sanderson, K., Wiedmann, M., Slawson, R., Weadge, J., Stephan, R., Bekal, S., Gruenheid, S., Goodridge, L., Levesque, R.C. (2020). The *Salmonella enterica* plasmidome as a reservoir of antibiotic resistance. *Microorganisms* 8: 1016. doi:10.3390/microorganisms8071016

Employees of Swiss veterinary clinics colonized with epidemic clones of carbapenemase-producing *Escherichia coli*

Authors: Endimiani A, Brillhante M, Bernasconi OJ, Perreten V, Schmidt JS, Dazio V, Nigg A, Gobeli Brawand S, Kuster SP, Schuller S, Willi B.

*J Antimicrob Chemother.* 2020 Mar 1;75(3):766-768

PMID: 31819979 DOI: 10.1093/jac/dkz470

Antibiotic-resistant bacteria in dogs and cats: recommendations for -owners

Authors: Heim D, Kuster S, Willi B.

*Schweiz Arch Tierheilkd.* 2020 Mar;162(3):141-151

PMID: 32146434 DOI: 10.17236/sat00248

Honegger, J., Lehnerr, H., Bachofen, C., Stephan, R., Sidler, X. (2020). Field trial for eradication of methicillin-resistant *Staphylococcus aureus* (MRSA) in a pig breeding farm by bacteriophages.

*Schweizer Archiv für Tierheilkunde* 162: 307-317. doi: 10.17236/sat00259

Antimicrobial prescriptions in cats in Switzerland before and after the introduction of an online antimicrobial stewardship tool

Authors: Hubbuch A, Schmitt K, Lehner C, Hartnack S, Schuller S, Schüpbach-Regula G, Mevissen M, Peter R, Müntener C, Naegeli H, Willi B.

Seite 1/3



BMC Vet Res. 2020 Jul 3;16(1):229, doi: 10.1186/s12917-020-02447-8

Effect of antimicrobial stewardship on antimicrobial prescriptions for selected diseases of dogs in Switzerland

Authors: Lehner C, Hubbuch A, Schmitt K, Schuepbach-Regula G, Willi B, Mevissen M, Peter R, Muentener CR, Naegeli H, Schuller S.

J Vet Intern Med. 2020 Nov;34(6):2418-2431

PMID: 33112451 DOI: 10.1111/jvim.15906

Antimicrobial prescriptions and adherence to prudent use guidelines for selected canine diseases in Switzerland in 2016

Authors: Lutz B, Lehner C, Schmitt K, Willi B, Schüpbach G, Mevissen M, Peter R, Müntener C, Naegeli H, Schuller S.

Vet Rec Open. 2020 Mar 9;7(1):e000370

PMID: 32201578 DOI: 10.1136/vetreco-2019-000370

Meyer Sauter, P.M., Stevens, M., Paioni, P., Wüthrich, D., Egli, A., Stephan, R., Berger, C., Bloemberg, G. (2020). Siblings with typhoid fever: an investigation of intrafamilial transmission, clonality, and antibiotic susceptibility. *Travel Medicine and Infectious Disease* 34:101498. doi: 10.1016/j.tmaid.2019.101498

Nüesch-Inderbinnen, M., Kindle, P., Baschera, M., Liljander, A., Jores, J., Corman, V.M., Stephan, R. (2020). Antimicrobial resistant and extended-spectrum  $\beta$ -lactamase (ESBL) producing *Escherichia coli* isolated from fecal samples of African dromedary camels. *Scientific African* 7, e00274. doi: <https://doi.org/10.1016/j.sciaf.2020.e00274>

Sah, R., Donovan, S., Seth-Smith, HMB, Bloemberg, G., Wüthrich, D., Stephan, R., Kataria, S., Kumar, M., Singla, S., Deswal, V., Kaur, A., Neumayr, A., Hinic, V., Egli, A., Kuenzli, E. (2020). A novel lineage of ceftriaxone-resistant *Salmonella* Typhi from India that is closely related to XDR S. Typhi found in Pakistan. *Clinical Infectious Diseases* 71(5),1327-1330. doi: 10.1093/cid/ciz1204

Poor infection prevention and control standards are associated with environmental contamination with carbapenemase-producing Enterobacterales and other multidrug-resistant bacteria in Swiss companion animal clinics

Authors: Schmidt JS, Kuster SP, Nigg A, Dazio V, Brillhante M, Rohrbach H, Bernasconi OJ, Büdel T, Campos-Madueno EI, Gobeli Brawand S, Schuller S, Endimiani A, Perreten V, Willi B.

Antimicrob Resist Infect Control. 2020 Jun 23;9(1):93

PMID: 32576281 DOI: 10.1186/s13756-020-00742-5



Schmitt, S., Stephan, R., Huebschke, E., Schaeffle, D., Merz, A., Johler, S. (2020). DNA microarray based characterization and resistance phenotypes of clinical MRSA strains from animal hosts. *Journal of Veterinary Science* 21(4):e54. doi: 10.4142/jvs.2020.21.e54.

Schoster, A., van Spijk, J., Damborg, P., Moodley, A., Kirchgaessner, C., Hartnack, S., Schmitt S. (2020). Effect of different antimicrobial treatment regimens on the occurrence of ESBL-producing *Escherichia coli* in fecal samples of horses. *Veterinary Microbiology* 243:108617. doi:10.1016/j.vetmic.2020.108617

Unterweger C, Schwarz L, Jelocnik M, Borel N, Brunthaler R, Inic-Kanada A, Marti H. Isolation of Tetracycline-Resistant *Chlamydia suis* from a Pig Herd Affected by Reproductive Disorders and Conjunctivitis Antibiotics (Basel). 2020 Apr 17;9(4):187

Wahdan A, Rohner L, Marti H, Bacciarini LN, Menegatti C, Di Francesco A, Borel N. Prevalence of *Chlamydiaceae* and tetracycline resistance genes in wild boars of central Europe. *J Wildl Dis.* 2020 Mar 27

Wist, V., Morach, M., Schneeberger, M., Cernela, N., Stevens, M.J.A., Zurfluh, K., Stephan, R., Nüesch-Inderbilen, M. (2020). Phenotypic and genotypic traits of vancomycin resistant enterococci from healthy food producing animals. *Microorganisms* 8(2), 261. doi:10.3390/microorganisms8020261.

Zurfluh, K., Treier, A., Schmitt, K., Stephan, R. (2020). Mobile fosfomycin-resistance genes in Enterobacteriaceae – an increasing threat. *MicrobiologyOpen*, 2020;00:e1135. <https://doi.org/10.1002/mbo3.1135>

23.02.2021