

List of novel viruses discovered at the Section of Virology, Department of Biomedical Sciences and Veterinary Public Health, SLU

Note: The viruses marked with a * were previously known but we found variants with significant genetic differences or that we demonstrated their presence in Sweden for the first time. See the individual publications for more details.

DNA viruses

Porcine bocavirus (Accession no FJ872544): Blomström, A-L., Fossum, C., Békák, S., Wallgren, P. and Berg M. (2010) Studies of porcine circovirus type 2, porcine boca-like virus and torque teno virus indicate the presence of multiple viral infections in postweaning multisystemic wasting syndrome pigs. *Virus Research*, 152, 59-64.

Porcine parvovirus type 4* (Accession no JQ277337): Blomström, A-L., Ståhl, K., Masembe, C., Okurut, AR., Atmnedi, P., Kemp, S., Bishop, R., Békák, S. and Berg, M. (2012) Viral metagenomic analysis of wild bushpigs (*Potamochoerus larvatus*) in Uganda identifies novel PPV4, TTV 1 and TTV2. *Virology Journal* 9: 192.

Porcine circovirus type 3* (Accession no MG765473): Ye, X., Berg, M., Fossum, C., Wallgren P. and Blomström AL (2018) Detection and genetic characterisation of Porcine Circovirus 3 from pigs in Sweden. *Virus Genes* 10.1007/s11262-018-1553-4.

Bottlenose dolphin adenovirus 1 (Accession no LT841149) Malmberg M, Rubio-Guerri C, Hayer J, García-Párraga D, Nieto-Pelegrín E, Melero M, Álvaro T, Valls M, Sánchez-Vizcaíno JM, Békák S, Granberg F (2017). Phylogenomic analysis of the complete sequence of a gastroenteritis-associated cetacean adenovirus (bottlenose dolphin adenovirus 1) reveals a high degree of genetic divergence. *Infect Genet Evol.* doi: 10.1016/j.meegid.2017.05.008.

RNA viruses

Mink neurotropic astrovirus (Accession no GU985458): Blomström, A-L., Widén, F., Hammer, A. S., Békák, S., and Berg M. (2010) Detection of a novel astrovirus in brain tissues of minks suffering from shaking mink syndrome by applying methods of viral metagenomics. *Journal of Clinical Microbiology* 48, No 12, 4392-4396.

Bovine rhinitis virus* (Accession No KY432299): Blomström A-L, Oma V, Khatri M, Hansen HH, Stokstad M, Berg M, Myrmet M. 2017. Genome sequence of a bovine rhinitis B virus identified in cattle in Sweden. *Genome Announcement* 5:e00172-17. <https://doi.org/10.1128/genomeA.00172-17>.

Culex picorna-like virus (Accession no: MG833031): Cholleti, H., Hayer, J., Fafetine, JM., Berg, M. And Blomström, A-L. (2018) Genetic characterization of a novel picorna-like virus in *Culex* spp. mosquitoes from Mozambique. *Virology Journal* 15:71 <https://doi.org/10.1186/s12985-018-0981-z>

Zambezi tick virus (Accession no MH267793) Cholleti, H., Hayer, J., Chanisso Mulandane, F., Verner-Carlsson, J., Falk, KI, Fafetine, JM., Berg, M., and Blomström A-L. (2018) Viral metagenomics reveals the presence of highly divergent quaranjavirus in *Rhipicephalus* ticks

from Mozambique. *Infection Ecology and Epidemiology*,
<https://doi.org/10.1080/20008686.2018.1478585>

Cuacua virus (Accession no KX245154) Cholleti, H., Hayer, J., Abilio, AP., Chenisso Mulandane, F., Verner-Carlsson, J., Falk, K., Fafetine, JM., Berg, M. and Blomström, A-L. (2016) Discovery of Novel Viruses in Mosquitoes from the Zambezi Valley of Mozambique. *PLoS ONE* 11(9):e0162751. doi:10.1371/journal.pone.0162751.