

Figure S1. Phylogenetic tree of partial cytochrome *b* sequences of common voles from this study with reference sequences of the evolutionary lineages “Central”, “Eastern”, “Western” and “Italian”, and field vole (*Microtus agrestis*) and bank vole (*Myodes glareolus*) sequences as outgroup. The Bayesian tree is based on 4×10^6 generations and a burn-in phase of 25% using MrBayes v3.2.6 [1]. The most suitable substitution model, the Hasegawa-Kishino-Yano model with invariant sites and a gamma distributed shape parameter (HKY+I+G), was obtained with the aid of jModelTest v2.1.6 [2]. All tree reconstructions were done on CIPRES Science Gateway [3]. Algorithm: Markov chain Monte Carlo, Substitution model: HKY+I+G, Alignment length: 825 nt.

Figure S2. Phylogenetic trees of partial S (a), L (b) and M (c) segment sequences of Tula orthohantavirus (TULV). (a) Consensus phylogenetic tree of the partial S segment sequences of TULV (alignment length 549 nucleotides (nt), positions 406-951, counting according to TULV S segment, accession number NC_005227). (b) Consensus phylogenetic tree of the partial L segment sequences of TULV (alignment length 327 nucleotides (nt), positions 2983-3309, counting according to TULV L segment, accession number NC_005226). (c) Consensus phylogenetic tree of the partial M segment sequences of TULV (alignment length 350 nucleotides (nt), positions 2535-2884, counting according to TULV M segment, accession number NC_005228). The consensus trees are based on Bayesian analyses with 10^7 generations and a burn-in phase of 25%, and Maximum-Likelihood analyses, with 1,000 bootstraps and 50% cut-off using the General Time Reversible (GTR) substitution model with invariant sites and a gamma distributed shape parameter for both algorithms. Bootstrap values > 75% are given before the slash and posterior probabilities > 95 % from Bayesian analyses are given after the slash for major nodes supported by both algorithms. The tree reconstructions were done via CIPRES [3]. Alignments were constructed under Bioedit (V7.2.3.) [4] using the Clustal W Multiple Alignment algorithm implemented in the program. Names in bold and highlighted with a grey layer indicate newly generated sequences (see Table S5 and Table S6). Identical sequences are listed in Table S5. Clade designations were made according to Saxenhofer et. al. [5]. Compressed branches, indicated by triangles, include the following sequences TULV-EST.S (S: MK386130-MK386132, MK386136, MK386137, MK386140, Z69991; M: MK386142- MK386144, MK386148, MK386149, MK386152; MK535055, Z69993; L: MK386154- MK386156, MK386160, MK386161, MK386164) and TULV-EST.N (S: AF063892, KU139555, KU139563, MK535078, MK535083; M: AF063891, MK535049- MK535051, MK535066).

References

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