

Supplementary materials for Journal of Wildlife Diseases DOI: 10.7589/2019-07-184: Amy L. Shima, Paola Vaz, Linda Johnson, Joanne Devlin, and Lee F. Skerratt. Herpesvirus Infection in Lumholtz's Tree-Kangaroo (*Dendrolagus lumholtzi*).

Supplemental Table S1: Details on the 60 available samples from n=59 individual Lumholtz's tree-kangaroos showing the status (free-ranging-live or post-mortem sample; wild-caught, captive-live or post-mortem sample; captive-bred –live or post-mortem sample) and type of testing (virus neutralization on serum=VN; polymerase chain reaction on swabs or tissue= PCR; both virus neutralization (VN) and polymerase chain reaction (PCR) performed. Note: One wild-caught, captive animal, MC5, was tested at two different times with the initial sample negative and the second, taken after the individual had been housed with a seropositive animal, FC4, POSITIVE.

Status of individual sampled	Number of samples by type of testing			Total number samples tested by status of individual
	VN	PCR	VN and PCR	
free-ranging, live	21	-	3	24
free-ranging, post-mortem	11	9	-	20
wild-caught, captive, live	3	-	5	8
wild-caught, captive, post-mortem	-	5 ^{a,b}	1 ^a	6
captive bred-live	-	-	1	1
captive bred-post-mortem	-	1	-	1
TOTAL NUMBER OF SAMPLES TESTED	35	15	10	60 total samples

^a Formalin fixed, paraffin-embedded (FFPE) tissue used for PCR testing

^b Samples not included in Table 1 PCR dataset due to lack of background information (eg. circumstances of death, post-mortem of carcass, quality of tissue samples) was not available.

Supplemental Text ST1: Nucleotide (nt) sequences of viral DNA polymerase gene fragment from novel gammaherpesvirus (designated LtkHV) found by PCR in Lumholtz's tree-kangaroos and sequences from other marsupial herpesviruses not found on GenBank that were used for Figure 1 in this study.

>LtkHV

ATCGCCGACGGTGACCCTTAGGGGTCGGACGATGCTGGAGAAGAGTCGGGCCTACATCGAGGACGTGACGCCTCGGCGACTCGC
CGAGCTCACGGGAGAGGCGTACACCGACGACGAGGAGGCGCAGCTCAAGGTC

>MaHV2

CAACATGGGCTTTTGCCCTGCCTTCATGTAGCAGCCACCGTCACTACGATCGGGCGTGAGATGCTCTTAAAGACCCGGGCTTACG
TGCATTCACGCTGGGCTACATTCTCACAATTTGTAGCTGACTTCCCGACCGCAGATACGATGGTGAAGGACGGGCCGTTTTCAAT
GACCATT

>MaHV4

CAACATGGGCTTTTGCCCTGCCTTCATGTAGCAGCCACCGTCAACCACGATCGGGCGTGAGATGCTTTTAAAGACCCGAGCTTACG
TGCATTCACGCTGGGCTACATTCTCACAATTTGTAGCTGACTTCCAACCGCGGATACGATGGTGAAGGATGGGCCGTTTTCAAT
GACAATT

>DaHV2

TTGTAACCTCGGTGTACGGGTTACGGGCGTTGCTTCTGGACTATTCCCGTGTCTAAAGATTGCTGAAACGGTGACACTCACCGGG
AGAAATATGCTGGAAAAGAGTAAAGCCTACATCGAAGACATCACCCATACAGACTCACTGAAATTCTA

>MaHV5

GCATCCGGCATCTTTCCGTGTTTGAAGATCGCCGAGACTGTGACGCTGCGGGGTCGAACGATGTTGGAAAAAAGTCAGAACTAC
ATCGAAGACCTCACCCCTCGGCGTCTAGAGGACCTCCTCGGCGAGGCTTACACCGACGACAACGACGCCAGTTAAAGGTCA

>PotHV1

GCCAATGGCATGTTACCGTGTCTAAAGATAGCTGAAACGGTGACATACCAAGGGAGGAACATGCTAGAACAATCCAAAACATTT
TTTGAGAAGATGACGCTCGACGACGTAAGTTCCAT

>VoHV3

TTGTA ACTCGGTGTANGGATTCACGGGGGTACAACATGGACTCTTGCCCTGTTTACATGTTGCCGCCACCGTTACCACCATCGGTA
GAGATATGTTACTTAAAACACAGGCATACGTACATTCGCGATGGGCGACCTTCACTCAATTTT TAGCTGATTTCCCGCGGCAGNT
AATAT

>PeHV1

GCCTCGGGTATGTTCCCCTGCCTCAAGATCGCTGAGACAGTTACCTTGCAGGGCAGGATGATGCTGGAGCAGAGCAAGGGCTAC
ATAGAGGCCATCACCCCCTCCCGCCTCACGGACCTTCTGGGCGAGACCTACACCTCAGATGACACGGCCCAGTTCAGGGTGA