Supplementary Materials

Table S1. Search engine and keywords used.

Databases and search engine	Keywords
Scopus **SciELO** **CABI** **DBatVir** **Google Scholar**	**Hepeviridae** "Herpesvirus AND Bat" "Herpesviridae AND Bat" "Virome AND Bat" **Adenoviridae** "Adenovirus AND Bat" "Adenoviridae AND Bat" "Virome AND Bat"

Table S2. Data extracted from each article that was included in the review.

Description of the papers	Bats	Virus
1. Title	10. Taxonomy	16. Taxonomy
2. Year	11. Place of collection	17. Detection method
3. Journal	12. Year or years of sampling	18. Number of new viruses identified
4. Authors	13. Number of individuals per species	19. Number of total viruses identified
5. Locality of the institution of the main author	14. Type of sample analyzed	20. Number of positive and negative individuals
6. Scientific area of study (virology, ecology, microbiology. Medicine, monitoring, etc.)	15. IUCN category	21. Prevalence (Number of positive/Total number of individuals)
7. Main conclusion		
8. Journal impact factor		
9. Number of citation in the papers		

Table S3. Conservation status by IUCN red list category of the bat species.

Categories	Abbreviation	No. bat species studied	No. bat species positive
Not Evaluated	NE	4	4
Data Deficient	DD	10	6
Least Concern	LC	186	115
Near Threatened	NT	19	15
Vulnerable	VU	14	10
Endangered	EN	6	3
Critically endangered	CR	0	0
Extinct in the Wild	EW	0	0
Extinct	EX	0	0

Table S4. Bat species positive for adenoviruses (AdVs) and/or herpesviruses (HSVs), indicated by a dark box and information about the conservation category of species in the IUCN, the country where it was found, and the corresponding reference.

Bat families	Scientific name	IUCN	Country	AdV	HSV	Referece
Emballonuridae	*Coleura afra*	LC	Kenya	■		[22]
	Taphozous melanopogon	LC	China	■		[23]
	Taphozous perforatus	LC	Saudi Arabi	■		[24]
	Saccopteryx bilineata	LC	Peru		■	[25]
	Rhynchonycteris naso	LC	Peru		■	[25]
Hipposideridae	*Aselliscus stoliczkanus*	LC	China	■	■	[26]
	Doryrhina cyclops	LC	Cameroon	■		[27]
	Hipposideros armiger	LC	Macau and China	■	■	[26,28,29]
	Hipposideros cineraceus	LC	China		■	[26]
	Hipposideros diadema	LC	Philippines		■	[30]
	Hipposideros jonesi	NT	Guinea		■	[31]
	Hipposideros larvatus	LC	China	■	■	[26, 32]
	Hipposideros pomona	EN	China		■	[26]
	Hipposideros pratti	LC	China	■	■	[26]
	Hipposideros ruber	LC	Cameroon	■		[27]
	Macronycteris commersonii	NT	Kenya	■		[22]
	Macronycteris gigas	LC	Cameroon	■		[27]
Megadermatidae	*Cardioderma cor*	LC	Kenya	■		[22]
Miniopteridae	*Miniopterus africanus*	DD	Kenya		■	[33]
	Miniopterus fuliginosus	NE	Myanmar, Korea and Japan	■	■	[34-36]
	Miniopterus minor	DD	Kenya	■		[22]
	Miniopterus natalensis	LC	South Africa	■	■	[37]
	Miniopterus orianae	NE	Australia		■	[38]
	Miniopterus schreibersii	VU	Spain, China and Croatia	■	■	[23, 32, 39-42]

Table S4. Continue

Bat families	Scientific name	IUCN	Country	AdV	HSV	Reference
Molossidae	*Chaerephon plicata*	LC	China	■	■	[26]
	Chaerephon pumilus	LC	Cameroon	■		[27]
	Mops condylurus	LC	Cameroon and Guinea	■		[27, 31]
	Otomops martiensseni	NT	Kenya	■		[22, 43]
	Molossops temminckii	LC	Uruguay		■	[44]
	Molossus coibensis	LC	French Guiana		■	[45]
	Molossus molossus	LC	French Guiana, Martinique and Uruguay		■	[44, 45]
	Molossus rufus	LC	Uruguay		■	[44]
	Tadarida brasiliensis	LC	Uruguay, Brazil, Argentina and United States	■	■	[44, 46, 47]
	Tadarida teniotis	LC	Italy and Spain	■	■	[39, 48]
Mormoopidae	*Pteronotus alitonus*	NE	French Guiana		■	[45]
Mystacinidae	*Mystacina tuberculata*	VU	New Zealand	■		[49]
Nycteridae	*Nycteris grandis*	LC	Cameroon	■		[27]
	Nycteris hispida	LC	Cameroon	■		[27]
	Nycteris macrotis	LC	Guinea	■		[31]
Phyllostomidae	*Anoura geoffroyi*	LC	French Guiana		■	[45]
	Artibeus lituratus	LC	Peru		■	[25]
	Artibeus planirostris	LC	French Guiana		■	[45]
	Carollia perspicillata	LC	French Guiana		■	[45]

Table S4. Continue

Bat families	Scientific name	IUCN	Country	AdV	HSV	Reference
Phyllostomidae	*Desmodus rotundus*	LC	Peru, Mexico, French Guiana, Brazil and Guatemala	■	■	[25, 43, 44, 50-53]
	Diaemus youngi	LC	French Guiana		■	[45]
	Diphylla ecaudata	LC	Peru and Mexico		■	[25, 52]
	Glossophaga soricina	LC	Peru		■	[25]
	Leptonycteris yerbabuenae	NT	Mexico		■	[54]
	Lonchophylla thomasi	LC	Brazil		■	[55]
	Macrotus waterhousii	LC	Mexico		■	[56]
	Sturnira angeli	NT	Martinique		■	[45]
	Sturnira lilium	LC	Peru		■	[25]
	Sturnira tildae	LC	French Guiana		■	[45]
Pteropodidae	*Acerodon celebensis*	VU	Indonesia		■	[57, 58]
	Cynopterus sphinx	LC	China	■	■	[23, 26, 32, 42]
	Cynopterus brachyotis	LC	Philippines		■	[59]
	Dobsonia moluccensis	LC	Indonesia		■	[58]
	Eidolon dupreanum	VU	Madagascar		■	[55]
	Eidolon helvum	NT	Kenya, Zambia, Cameroon, Ghana and Nigeria	■	■	[22, 27, 43, 55, 60, 61]
	Eonycteris spelaea	LC	Singapore	■	■	[62]
	Epomops franqueti	LC	Cameroon	■		[27]
	Hypsignathus monstrosus	LC	Cameroon	■		[27]
	Lissonycteris angolensis	LC	Cameroon	■		[27]
	Macroglossus minimus	LC	Philippines		■	[59]
	Megaloglossus woermanni	LC	Cameroon	■		[27]
	Micropteropus pusillus	LC	Cameroon	■		[27]

Table S4. Continue

Bat families	Scientific name	IUCN	Sample	AdV	HSV	Reference
Pteropodidae	*Ptenochirus jagori*	LC	Philippines		■	[59]
	Pteropus dasymallus	VU	Japan	■		[63]
	Pteropus lylei	VU	Cambodia and Vietnam		■	[55, 64]
	Pteropus medius	LC	Bangladesh	■	■	[65]
	Pteropus poliocephalus	VU	Australia		■	[66]
	Pteropus vampyrus	NT	Indonesia and United States		■	[57, 58, 67]
	Rousettus aegyptiacus	LC	Kenya, Cameroon, Hungary, Spain and South Africa	■	■	[22, 27, 37, 39, 68, 69]
	Rousettus amplexicaudatus	LC	Philippines		■	[59]
	Rousettus leschenaultii	NT	India and China	■	■	[26, 32, 40, 70, 71]
Rhinolophidae	*Rhinolophus affinis*	LC	China	■	■	[26]
	Rhinolophus alcyone	LC	Cameroon	■		[27]
	Rhinolophus blythi	LC	China		■	[23]
	Rhinolophus cornutus	NE	Japan	■		[72]
	Rhinolophus euryale	NT	Spain and Hungary	■		[73, 74]
	Rhinolophus ferrumequinum	LC	China, Japan, Spain, Croatia and Hungary	■	■	[26, 39, 41, 73, 74 75, 76]
	Rhinolophus fumigatus	LC	Kenya and Cameroon	■		[22, 27]
	Rhinolophus hipposideros	LC	China, Spain, Hungary and Switzerland	■	■	[26, 39, 73, 77]
	Rhinolophus lepidus	LC	China	■	■	[26]
	Rhinolophus pusillus	LC	China	■	■	[26, 78, 79]
	Rhinolophus rex	EN	China	■	■	[26]
	Rhinolophus rouxii	LC	China	■	■	[26]

Table S4. Continue

Bat families	Scientific name	IUCN	Sample	AdV	HSV	Bibliographical reference
Rhinolophidae	*Rhinolophus rufus*	NT	Philippines		■	[59]
	Rhinolophus sinicus	LC	China	■	■	[26, 40]
Rhinonycteridae	*Triaenops persicus*	LC	Congo		■	[80]
Vespertilionidae	*Barbastella barbastellus*	NT	Slovakia		■	[81]
	Barbastella beijingensis	DD	China	■	■	[26]
	Chalinolobus gouldii	LC	Australia	■		[82]
	Chalinolobus morio	LC	Australia	■		[82]
	Corynorhinus rafinesquii	LC	United States	■		[83]
	Eptesicus diminutus	LC	Uruguay		■	[44]
	Eptesicus furinalis	LC	Uruguay		■	[44]
	Eptesicus fuscus	LC	United States and Canada		■	[84-86]
	Eptesicus isabellinus	LC	Spain		■	[39]
	Eptesicus nilssonii	LC	Germany	■		[73]
	Eptesicus serotinus	LC	Spain, China, Italy, Hungary and Germany	■	■	[39, 47, 73, 87, 88]
	Hypsugo musciculus	DD	Cameroon	■		[27]
	Hypsugo savii	LC	Spain and Italy	■	■	[39, 48, 74]
	Ia io	NT	China		■	[26]
	Murina leucogaster	LC	China	■	■	[26]
	Myotis alcathoe	DD	Spain and China		■	[39]
	Myotis altarium	LC	China	■		[26]
	Myotis bechsteinii	NT	Spain	■		[39, 74]
	Myotis blythii	LC	Hungary	■	■	[39, 73, 81]

Table S4. Continue

Bat families	Scientific name	IUCN	Sample	AdV	HSV	Reference
Vespertilionidae	*Myotis brandtii*	LC	Sweden		■	[89]
	Myotis capaccinii	VU	Spain		■	[39]
	Myotis dasycneme	NT	Hungary	■		[73]
	Myotis daubentonii	LC	Spain, Germany and China	■	■	[26, 39, 90]
	Myotis emarginatus	LC	Croatia, Spain and Hungary	■	■	[73, 74]
	Myotis escalerai	LC	Spain		■	[39]
	Myotis fimbriatus	LC	China	■		[88, 91]
	Myotis horsfieldii	LC	China	■		[28]
	Myotis macrodactylus	LC	Japan	■		[92]
	Myotis lucifugus	EN	United States		■	[93]
	Myotis myotis	LC	Croatia, Germany, China, Spain, Hungary and Switzerlad	■	■	[26, 39, 41, 73, 74, 77, 87, 94, 95]
	Myotis mystacinus	LC	Spain, Switzerlad and Germany	■	■	[39, 73, 87, 90, 96]
	Myotis nattereri	LC	France, Germany and Croatia	■		[41, 87, 94, 97]
	Myotis oxyotus	LC	Peru		■	[25]
	Myotis pequinius	LC	China	■		[88]
	Myotis pilosus	VU	China	■	■	[23, 26, 28, 29, 42, 75, 88]
	Myotis siligorensis	LC	China		■	[26]
	Myotis velifer	LC	United States	■	■	[98, 99]
	Myotis yumanensis	LC	United States	■		[47]

Table S4. Continue

Bat families	Scientific name	IUCN	Sample	AdV	HSV	Bibliographical reference
Vespertilionidae	*Neoromicia capensis*	LC	South Africa	■	■	[100]
	Neoromicia helios	DD	South Africa	■	■	[100]
	Neoromicia nana	LC	South Africa	■		[100]
	Neoromicia tenuipinnis	LC	Cameroon	■		[27]
	Nyctalus lasiopterus	VU	Spain	■	■	[39, 74]
	Nyctalus leisleri	LC	Spain and Germany	■	■	[39, 73, 74]
	Nyctalus noctula	LC	Ukraine, Spain, Switzerlad, Germany and Hungary	■	■	[39, 73, 81, 87, 90, 94, 96]
	Nyctalus plancyi	LC	China	■	■	[26]
	Nyctophilus geoffroyi	LC	Australia	■		[82]
	Nyctophilus gouldi	LC	Australia	■		[82]
	Pipistrellus abramus	LC	China	■		[29]
	Pipistrellus kuhlii	LC	Spain, Italy and Germany	■	■	[39, 48, 73, 74]
	Pipistrellus nanulus	LC	Congo		■	[80]
	Pipistrellus nathusii	LC	Switzerlad and Germany	■	■	[73, 87, 96]
	Pipistrellus pipistrellus	LC	Spain, Switzerlad, Italy and Germany	■	■	[39, 47, 73, 87, 90, 94, 96]
	Pipistrellus pygmaeus	LC	Spain, Sweden, Hungary and Germany	■	■	[39, 73, 89]
	Plecotus auritus	LC	Germany	■	■	[73, 87, 94]
	Plecotus austriacus	NT	Spain		■	[39]
	Scotophilus kuhlii	LC	China	■	■	[23, 28, 32, 42]
	Tylonycteris pachypus	LC	China	■	■	[26]

Table S4. Continue

Bat families	Scientific name	IUCN	Country	AdV	HSV	Reference
Vespertilionidae	*Tylonycteris robustula*	LC	China		■	[75]
	Vespadelus regulus	LC	Australia	■		[82]
	Vespertilio murinus	LC	Germany and Switzerlad	■		[73, 77]
	Vespertilio sinensis	LC	Japan	■		[92]
	Vespertilio superans	LC	China		■	[26]

Table S5. Prevalence of AdVs and HSVs by species. Including only those articles where the sample size and the number of individuals positive for AdVs and/or HSVs are reported, type of sample analyzed for each viral type, sample size (n), number of positive species (positive) and prevalence (P%).

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P
Emballonuridae	*Coleura afra*	Anal swabs	2	0	0.0				
	Balantiopteryx plicata					Liver	1	0	0.0
	Saccopteryx bilineata					Oropharyngeal and anal swabs	1	1	100
	Rhynchonycteris naso					Oropharyngeal and anal swabs	1	1	100
	Taphozous hildegarde	Anal swabs	3	0	0.0				
	Taphozous melanopogon	Anal swabs and feces	3	1	33.3	Oropharyngeal and anal swabs	66	0	0.0
	Taphozous nudiventris	Anal swabs	2	0	0.0				
	Taphozous perforatus	Anal swabs and feces	17	1	5.9				
Hipposideridae	*Doryrhina cyclops*	Liver and spleen	20	15	75.00				
	Hipposideros armiger	Kindey, feces, oropharyngeal and anal swabs	487	5	1.0	Oropharyngeal and anal swabs	93	0	0.0
	Hipposideros beatus	Liver and spleen	2	0	0.0				
	Hipposideros cineraceus	Oropharyngeal and anal swabs	40	0	0.0	Oropharyngeal and anal swabs	20	0	0.0
	Hipposideros diadema					Spleen	1	1	100
	Hipposideros fuliginosus	Liver and spleen	3	0	0.0				
	Hipposideros jonesi	Blood, spleen, liver, kindey and thymus	2	0	0.0				

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Hipposideridae	*Hipposideros larvatus*	Kidney, anal swabs and feces	16	0	0.0	Feces, oropharyngeal and anal swabs	23	1	43.4
	Hipposideros pomona	Kidney, feces, oropharyngeal and anal swabs	82	0	0.0	Feces, oropharyngeal and anal swabs	66	1	1.5
	Hipposideros pratti					Feces, oropharyngeal and anal swabs	86	0	0.0
	Hipposideros ruber	Blood, kidney, liver, spleen, thymus and anal swabs	117	17	14.5	Blood, spleen, liver, kidney, thymus, oropharyngeal and anal swabs	11	0	0.0
	Macronycteris commersonii	Anal swabs	9	0	0.0				
	Macronycteris gigas	Liver and spleen	28	3	10.7				
	Neoromicia brunnea					Oropharyngeal and anal swabs	4	0	0.0
	Nycteris hispida					Oropharyngeal and anal swabs	4	0	0.0
Megadermatidae	*Cardioderma cor*	Anal swabs	14	0	0.0				
Miniopteridae	*Miniopterus africanus*	Anal swabs	9	0	0.0	Oropharyngeal and anal swabs	8	1	12.5
	Miniopterus australis					Spleen	23	0	0.0
	Miniopterus fuliginosus	Organs and feces	642	0	0.0	Spleen	50	4	8.0
	Miniopterus inflatus	Liver, spleen and feces	11	0	0.0				

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Miniopteridae	*Miniopterus minor*	Anal swabs	16	0	0.0				
	Miniopterus natalensis	Urine, oropharyngeal and anal swabs	274	70	25.5	Salive, urine, feces, oropharyngeal and anal swabs	273	19	6.9
	Miniopterus orianae	Hisopados bucifaringeos	213	0	0.0	oropharyngeal swab	467	89	19.0
	Miniopterus schreibersii	Brain, salivary glands, heart, liver, intestine, kidney, spleen, feces and anal swabs	397	1	0.3	Spleen, feces, oropharyngeal and anal swabs	469	35	7.5
	Miniopterus tristis					Spleen	2	0	0.0
Molossidae	*Austronomus australis*	Feces	9	0	0.0				
	Chaerephon pumilus	Liver, spleen and oropharyngeal and anal swabs	9	2	22.2				
	Eumops bonariensis					Oropharyngeal swab	1	0	0.0
	Eumops glaucinus	Blood and oropharyngeal and anal swabs	2	0	0.0	Blood, oropharyngeal and anal swabs	2	0	0.0
	Molossops temminckii					Oropharyngeal swab	2	1	50.0
	Molossus coibensis					Blood	17	2	11.7
	Molossus molossus	Blood and oropharyngeal and anal swabs	3	0	0.0	Blood, oropharyngeal and anal swabs	69	5	7.2

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Molossidae	*Molossus rufus*					Oropharyngeal swab	1	1	100
	Mops condylurus	Liver and spleen	25	3	12.0	Blood, spleen, liver, kidney and thymus	6	0	0.0
	Mops demonstrator	Liver and spleen	6	0	0.0				
	Otomops martiensseni	Hisopados rectales	19	2	10.5				
	Otomops harrisoni					Oropharyngeal and anal swabs	22	0	0.0
	Tadarida brasiliensis					Oropharyngeal swab	28	25	89.2
	Tadarida teniotis	Brain, intestine, viscera and feces	1	1	1.0	Oropharyngeal swab	7	6	85.7
Mormoopidae	*Mormoops megalophylla*					Liver	1	0	0.0
	Pteronotus alitonus					Blood	5	1	20
	Pteronotus fulvus					Liver	7	0	0.0
	Pteronotus mexicanus					Liver and anal swabs	30	0	0.0
	Pteronotus psilotis					Liver	2	0	0.0
	Pteronotus rubiginosus					Blood	15	0	0.0
Nycteridae	*Nycteris grandis*	Liver and spleen	16	1	0.0				

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Nycteridae	*Nycteris hispida*	Liver and spleen	4	1	25.0				
	Nycteris macrotis					Blood, spleen, liver, kidney and thymus	2	0	0.0
	Nycteris major	Liver and spleen	1	0	0.0				
	Nycteris thebaica	Liver and spleen	1	0	0.0				
Phyllostomidae	*Anoura geoffroyi*					Blood, oropharyngeal and anal swabs	28	2	7.1
	Artibeus fimbriatus	Blood, oropharyngeal and anal swabs	34	0	0.0	Blood, oropharyngeal and anal swabs	34	0	0.0
	Artibeus fraterculus					Oropharyngeal swab	5	0	0.0
	Artibeus lituratus	Blood, oropharyngeal and anal swabs	66	0	0.0	Blood, oropharyngeal and anal swabs	69	1	1.4
	Artibeus obscurus					Oropharyngeal swab	4	0	0.0
	Artibeus planirostris	Blood, oropharyngeal and anal swabs	130	0	0.0	Blood, oropharyngeal and anal swabs	152	5	3.2
	Carollia perspicillata	Blood, oropharyngeal and anal swabs	55	0	0.0	Blood, oropharyngeal and anal swabs	118	6	5.1
	Chiroderma salvini					Oropharyngeal swab	2	0	0.0
	Chiroderma trinitatum					Oropharyngeal swab	1	0	0.0
	Choeroniscus minor					Oropharyngeal swab	1	0	0.0

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Phyllostomidae	*Desmodus rotundus*	Blood, lung, liver, kidney, feces, oropharyngeal and anal swabs	107	15	14.0	Blood, oropharyngeal and anal swabs	338	215	63.6
	Diaemus youngi	Blood, oropharyngeal and anal swabs	2	0	0.0	Blood, oropharyngeal and anal swabs	10	5	50
	Diphylla ecaudata					Blood and oropharyngeal swab	5	3	60
	Glossophaga soricina	Blood, oropharyngeal and anal swabs	1	0	0.0	Blood, oropharyngeal and anal swabs	6	4	66.7
	Leptonycteris yerbabuenae					Liver	2	1	50
	Lonchophylla thomasi					Blood	1	1	100
	Lonchorhina aurita					Oropharyngeal swab	7	0	0.0
	Phyllostomus discolor					Oropharyngeal swab	1	0	0.0
	Phyllostomus hastatus	Blood, oropharyngeal and anal swabs	3	0	0.0	Blood, oropharyngeal and anal swabs	3	0	0.0
	Rhinophylla pumilio					Oropharyngeal swab	1	0	0.0
	Sturnira angeli					Blood	18	5	27.8
	Sturnira lilium	Blood, oropharyngeal and anal swabs	17	0	0.0	Blood, oropharyngeal and anal swabs	23	2	8.7
	Sturnira tildae					Blood	18	2	11.1
	Vampyressa bidens					Oropharyngeal swab	4	0	0.0
	Vampyrodes caracciol	Blood, oropharyngeal and anal swabs	9	0	0.0	Blood, oropharyngeal and anal swabs	9	0	0.0
Pteropodidae	*Acerodon celebensis*					Blood and tissue	54	7	13
	Casinycteris argynnis	Liver and spleen	2	0	0.0				
	Cynopterus brachyotis					Blood, intestine and lung	19	3	15.7
	Cynopterus sphinx	Feces and anal swabs	61	8	13.1	Feces	60	10	16.7

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	**n**	**Positive**	**P %**	**Samples**	**n**	**Positive**	**P%**
Pteropodidae	*Dobsonia moluccensis*					Tissue	17	6	35.3
	Eidolon dupreanum					Oropharyngeal swab	9	9	**100**
	Eidolon helvum	Liver, spleen, feces and anal swabs	161	11	6.8	Organs and urine	89	3	**3.4**
	Eonycteris spelaea	Feces and anal swabs	1	0	0.0				
	Epomophorus gambianus	Liver and spleen	9	0	0.0				
	Epomophorus wahlbergi	Anal swabs	3	0	0.0				
	Epomophorus pusillus								
	Epomops franqueti	Liver and spleen	124	5	4.0				
	Hypsignathus monstrosus	Liver and spleen	4	1	25.0				
	Lissonycteris angolensis	Liver, spleen and anal swabs	31	2	6.5				
	Macroglossus minimus	Liver and spleen				Blood, lung and intestine	4	1	25
	Megaloglossus woermanni	Liver and spleen	108	14	13.0				
	Micropteropus pusillus	Liver and spleen	68	1	1.5				
	Myonycteris torquata	Liver and spleen	25	0	0.0				
	Nanonycteris veldkampii	Liver and spleen	3	0	0.0				
	Ptenochirus jagori					Blood, intestine, lung and spleen	8	5	**62.5**
	Pteropus dasymallus	Kidney	1	1	100.0				
	Pteropus lylei	Lung, liver and small intestine	5	0	0.0	Liver, lung, small intestine and oropharyngeal swab	8	1	12.5
	Pteropus medius	Urine, feces and oropharyngeal swab	1902	197	10.4	Throat, urine and feces	1741	730	**41.9**
	Pteropus vampyrus					Blood, upper eyelid biopsy and tissue	110	70	**63.6**

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Pteropodidae	*Rousettus aegyptiacus*	Lung, liver, spleen, small intestine, feces, oropharyngeal and anal swabs	400	15	3.8	Saliva and oropharyngeal swab	393	28	7.1
	Rousettus amplexicaudatus					Blood, lung and intestine	40	11	27.5
	Rousettus leschenaultii	Kidney, liver, spleen, oropharyngeal and anal swabs	343	8	2.3				
	Scotonycteris zenkeri	Liver and spleen	5	0	0.0				
Rhinolophidae	*Rhinolophus affinis*	Kidney	60	0	0.0	Oropharyngeal and anal swabs	141	0	0.0
	Rhinolophus alcyone	Liver and spleen	5	4	80.0				
	Rhinolophus arcuatus					Spleen	1	0	0.0
	Rhinolophus blythi	Feces and anal swabs	118	0	0.0	Feces	103	17	16.5
	Rhinolophus clivosus	Anal swabs	5	0	0.0				
	Rhinolophus euryale	Brain, salivary glands, heart, liver, kidney, spleen and intestine	52	10	19.2	Oropharyngeal swab	52	0	0.0
	Rhinolophus ferrumequinum	Brain, salivary glands, heart, liver, spleen, kidney, intestine and faces	383	10	2.6	Kidney, heces, oropharyngeal and anal swabs	122	16	13.1
	Rhinolophus fumigatus	Liver and spleen	1	1	100.0				
	Rhinolophus hildebrandtii	Anal swabs	4	0	0.0				
	Rhinolophus hipposideros	Brain, salivary glands, heart, liver, kidney and spleen, intestine, feces and oropharyngeal swab	30	1	3.33	Oropharyngeal swab	10	1	10.0

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	**n**	**Positive**	**P %**	**Samples**	**n**	**Positive**	**P%**
Rhinolophidae	*Rhinolophus landeri*	Liver and spleen	8	0	0.0	Oropharyngeal and anal swabs	8	0	0.0
	Rhinolophus luctus	Kidney	1	0	0.0				
	Rhinolophus macrotis	Kidney	4	0	0.0	Oropharyngeal and anal swabs	86	0	0.0
	Rhinolophus mehelyi	Oropharyngeal swab	1	0	0.0	Oropharyngeal swab	1	0	0.0
	Rhinolophus pearsonii	Kidney	10	0	0.0	Oropharyngeal and anal swabs	84	0	0.0
	Rhinolophus pusillus	Spleen, kidney, intestine, feces, oropharyngeal and anal swabs	1028	36	3.5	Lung, intestine, oropharyngeal and anal swabs	162	0	0.0
	Rhinolophus rufus					Blood, lung and intestine	1	1	**100**
	Rhinolophus sinicus	Kidney, feces and anal swabs	100	0	0.0	Oropharyngeal and anal swabs	49	0	0.0
Rhinonycteridae	*Triaenops afer*					Oropharyngeal and anal swabs	4	0	0.0
	Triaenops persicus					Oropharyngeal and anal swabs	10	1	10.0
Rhinopomatidae	*Rhinopoma hardwickii*	feces and anal swabs	29	0	0.0				
	Rhinopoma microphyllum	Liver and spleen	*1*	0	0.0				
Vespertilionidae	*Barbastella barbastellus*	Brain, lung, heart, salivary glands, liver, kidney, spleen, intestine, feces	48	0	0.0	Lung, Oropharyngeal swab	5	0	0.0
	Barbastella beijingensis					Oropharyngeal and anal swabs	56	0	0.0
	Chalinolobus gouldii	Feces	*232*	41	17.7				
	Chalinolobus morio	Feces	45	7					

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Vespertilionidae	*Corynorhinus rafinesquii*	Brain, windpipe, heart, gastrointestinal tissue	3	1	33.3				
	Corynorhinus townsendii								
	Eptesicus capensis								
	Eptesicus diminutus					Oropharyngeal swab	1	1	100
	Eptesicus furinalis					Oropharyngeal swab	5	2	40.0
	Eptesicus fuscus					Blood and organs	109	31	28.4
	Eptesicus isabellinus	Feces	8	0	0.0	Oropharyngeal swab	33	16	48.5
	Eptesicus japonensis	Feces	30	0	0.0				
	Eptesicus nilssonii	Brain, salivary glands, lung, heart, spleen, liver, kidney and intestine.	20	1	5.0	Brain, lung, heart, spleen, kidney, liver and intestine	12	0	0.0
	Eptesicus serotinus	Brain, salivary glands, lung, heart, liver, spleen, kidney, small intestine and feces	77	9	14.1	Brain, salivary gland, lung, heart, liver, spleen, kidney, small intestine, oropharyngeal swab	32	12	37.5
	Falsistrellus mackenziei	Feces	11	0	0.0				
	Hypsugo crassulus					Lung, liver, feces and oral swab	8	0	0.0
	Hypsugo musciculus	Liver and spleen	4	1	25.0				
	Hypsugo savii	Brain, salivary glands, heart, lung, liver, kidney, spleen, intestine	109	11	10.0	Oropharyngeal swab	10	2	20.0
	Ia io					Oropharyngeal and anal swabs	57	0	0.0
	Kerivoula cuprosa	Liver and spleen	4	0	0.0				
	Lasiurus blossevillii	Blood, oropharyngeal and anal swabs	1	0	0.0	Blood, oropharyngeal and anal swabs	1	0	0.0

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Vespertilionidae	*Miniopterus schreibersii*								
	Murina hilgendorfi	Feces	2	0	0.0				
	Murina leucogaster					Oropharyngeal and anal swabs	52	0	0.0
	Murina ussuriensis	Feces	1	0	0.0				
	Myotis albescens	Blood, oropharyngeal and anal swabs	3	0	0.0	Blood, oropharyngeal and anal swabs	3	0	0.0
	Myotis alcathoe	Brain, salivary glands, heart, liver, kidney, spleen, intestine and feces	4	0	0.0	Oropharyngeal swab	1	1	100
	Myotis altarium					Oropharyngeal and anal swabs	43	0	0.0
	Myotis bechsteinii	Brain, salivary glands, heart, liver, kidney, spleen, intestine, oropharyngeal swabs	40	1	0.0	Spleen and oropharyngeal swab	4	2	50.0
	Myotis blythii	Brain, salivary glands, heart, liver, kidney, spleen, intestine, oropharyngeal and anal swabs	63	1	14.3	Feces and oropharyngeal swab	33	6	18.2
	Myotis brandtii	Brain, salivary glands, heart, liver, kidney, spleen and intestine	7	0	0.0	Oropharyngeal and anal swabs	12	0	0.0
	Myotis capaccinii	Oropharyngeal swab	15	0	0.0	Oropharyngeal swab	15	3	20
	Myotis chinensis	Kidney	3	0	0.0				

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Vespertilionidae	*Myotis dasycneme*	Brain, salivary glands, heart, liver, kidney, spleen and intestine	5	2	40.0				
	Myotis daubentoni	Brain, salivary glands, heart, lung, liver, kidney, spleen, intestine, feces and oropharyngeal swab	332	0	0.0	Lung, spleen, salivary gland and oropharyngeal swab	86	12	14
	Myotis davidii	Kidney	2	0	0.0	Oropharyngeal and anal swabs	12	0	0.0
	Myotis emarginatus	Brain, salivary glands, heart, lung, liver, kidney, spleen, intestine, feces, oropharyngeal and anal swabs	70	4	5.7	Oropharyngeal swab	31	7	22.6
	Myotis escalerai	Oropharyngeal swab	13	0	0.0	Oropharyngeal swab	17	9	**52.9**
	Myotis fimbriatus	Spleen, intestine and anal swabs	54	19	35.2	Anal swab	20	1	5.0
	Myotis formosus					Oropharyngeal and anal swabs	8	0	0.0
	Myotis horsfieldii	Kidney	8	2	25.0				
	Myotis ikonnikovi	Feces	7	0	0.0	Oropharyngeal and anal swabs	68	0	0.0
	Myotis lucifugus					Submandibular gland and feces	34	2	5.9
	Myotis macrodactylus	Feces	1	0	0.0				
	Myotis macrotarsus					Spleen	1	0	0.0

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	**n**	**Positive**	**P %**	**Samples**	**n**	**Positive**	**P%**
Vespertilionidae	*Myotis myotis*	Brain, salivary glands, heart, liver, kidney, spleen, intestine and feces	154	4	2.5	Brain, salivary gland, lung, heart, liver, kidney, spleen, intestine, oropharyngeal and anal swabs	76	10	13.2
	Myotis mystacinus	Brain, salivary glands, heart, lung, liver, kidney, spleen, intestine, feces and oropharyngeal swabs	43	1	2.3	Brain, salivary gland, lung, heart, kidney, spleen, liver and oropharyngeal swab	34	3	8.8
	Myotis nattereri	Brain, salivary glands, heart, liver, kidney, spleen, intestine, feces and oropharyngeal swabs	56	0	4.8	Brain, salivary gland, lung, heart, liver, spleen, kidney and intestine.	5	1	**20**
	Myotis nigricans	Blood, oropharyngeal and anal swabs	1	0	0.0	Blood, oropharyngeal and anal swabs	1	0	0.0
	Myotis oxyotus					Feces, oropharyngeal swab	11	3	27.3
	Myotis pequinius	Spleen and intestine	57	5	8.7	Oropharyngeal and anal swabs	42	0	0.0
	Myotis pilosus	Kidney, spleen, intestine, oropharyngeal and anal swabs	133	22	16.5	Feces, oropharyngeal and anal swabs	97	2	2.1
	Myotis pruinosus	Feces	2	0	0.0				
	Myotis riparius	Blood, oropharyngeal and anal swabs	3	0	0.0	Blood, oropharyngeal and anal swabs	3	0	0.0

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Vespertilionidae	*Myotis siligorensis*	Oropharyngeal and anal swabs	40	0	0.0				
	Myotis tricolor					Oropharyngeal and anal swabs	9	0	0.0
	Myotis velifer	Feces	30	6	20.0	/	1	1	100
	Myotis yumanensis								
	Neoromicia capensis	Liver, spleen, intestine, rectum and feces	34	0	0.0	Intestine, rectum and feces	33	0	0.0
	Neoromicia helios	Intestine, rectum and feces	5	0	0.0	Intestine, rectum and feces	6	2	33.3
	Neoromicia nana	Intestine, rectum and feces	11	0	0.0	Intestine, rectum and feces	12	0	0.0
	Neoromicia tenuipinnis	Liver and spleen	11	5	45.5				
	Neoromicia zuluensis	Intestine, rectum and feces	4	0	0.0	Intestine, rectum and feces	4	0	0.0
	Nyctalus lasiopterus	Brain, salivary glands, heart, liver, kidney, spleen intestine,	183	16	8.7	Oropharyngeal swab	3	3	100
	Nyctalus leisleri	Brain, salivary glands, heart, lung, liver, kidney, spleen, intestine, feces, oropharyngeal and anal swabs	52	9	17.3	Lung and oropharyngeal swab	9	6	66.7
	Nyctalus noctula	Brain, salivary glands, lung, heart, liver, kidney, spleen, intestine, feces oropharyngeal swab	277	31	11.1	Brain, salivary gland, lung, heart, liver, kidney, spleen, small intestine and oropharyngeal swab	227	48	21.1
	Nyctophilus geoffroyi	Feces	51	2	3.9				

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	n	Positive	P %	Samples	n	Positive	P%
Vespertilionidae	*Nyctophilus gouldi*	Feces	56	1	1.7				
	Nyctophilus major	Feces	10	0	0.0				
	Perimyotis subflavus					Feces	4	0	0.0
	Pipistrellus abramus	Feces and anal swabs	12	2	16.7				
	Pipistrellus kuhlii	Brain, salivary glands, heart, lung, liver, kidney, spleen, intestine and feces	465	24	5.1	Lung and oropharyngeal swab	9	5	55.6
	Pipistrellus nanulus	Liver and spleen	2	0	0.0	Oropharyngeal and anal swabs	4	1	25.0
	Pipistrellus nathusii	Brain, salivary glands, lung, heart, liver, kidney, spleen, intestine and feces	45	2	4.4	Brain, salivary gland, lung, heart, liver, kidney, spleen and intestine	23	8	34.8
	Pipistrellus pipistrellus	Brain, salivary glands, lung, heart, liver, kidney, spleen, intestine and feces	167	10	5.9	Brain, salivary gland, lung, heart, liver, kidney, spleen, intestine and oropharyngeal swab	78	35	44.9
	Pipistrellus pygmaeus	Brain, salivary glands, lung, heart, liver, kidney, spleen, intestine and feces	169	22	13.0	Spleen, intestine and oropharyngeal swab	2	1	**0.5**
	Pipistrellus tenuis	Feces and anal swabs	13	0	0.0				
	Plecotus auritus	Brain, salivary glands, lung, heart, liver, kidney, spleen, intestine, feces and oropharyngeal swab	56	1	1.8	Brain, salivary gland, lung, heart, liver, kidney, spleen, intestine oropharyngeal and anal swabs	67	3	4.5

Table S5. Continue

Family	Species	AdVs				HSVs			
		Samples	**n**	**Positive**	**P %**	**Samples**	**n**	**Positive**	**P%**
Vespertilionidae	*Plecotus austriacus*	Brain, salivary glands, heart, liver, kidney, spleen, feces and oropharyngeal swab	19	0	0.0	Oropharyngeal swab	11	9	**81.8**
	Plecotus macrobullaris	Organs	1	0	0.0				
	Plecotus sacrimontis	Feces	5	0	0.0				
	Scotophilus kuhlii	Feces and anal swabs	193	24	12.4	Feces	177	37	20.9
	Scotorepens balstoni	Feces	9	0	0.0				
	Tylonycteris pachypus	Feces and anal swabs	78	0	0.0				
	Tylonycteris robustula					Oropharyngeal and anal swabs	20	0	0.0
	Vespadelus baverstocki	Feces	4	0	0.0				
	Vespadelus regulus	Feces	141	11	7.8				
	Vespertilio murinus	Brain, salivary glands, lung, liver, kidney, spleen, intestine and feces	23	1	4.3	Salivary gland, lung, spleen, liver and small intestine	7	0	0.0
	Vespertilio sinensis	Feces	67	0	0.0				

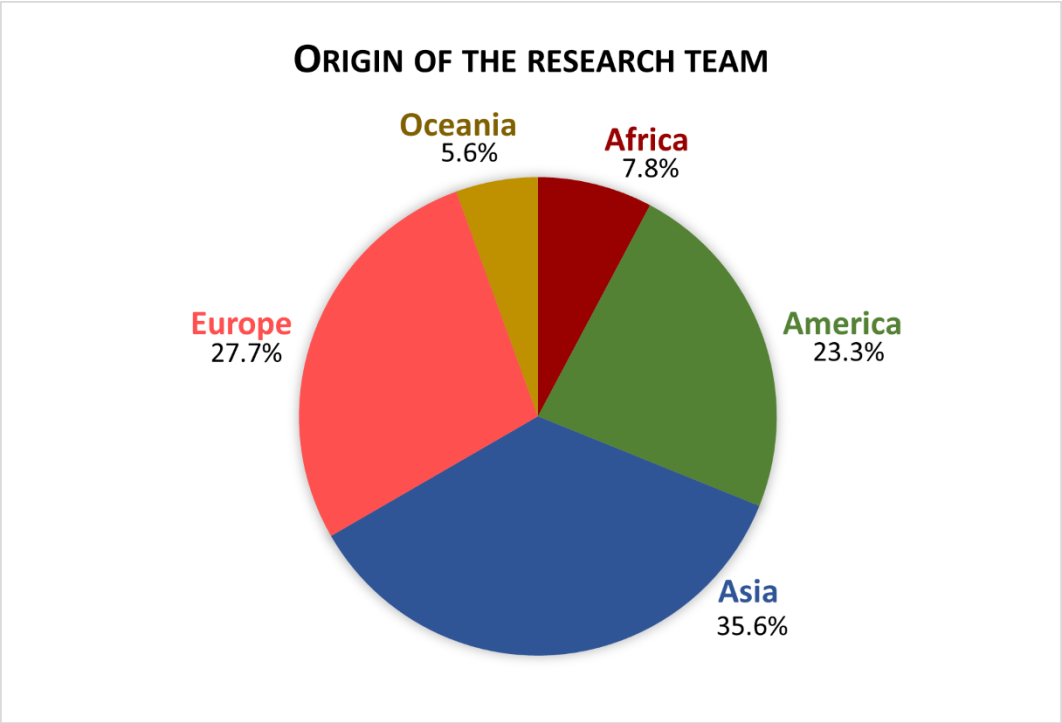

Figure S1. Continents of origin of research teams that have studied AdVs and HSVs in bats.

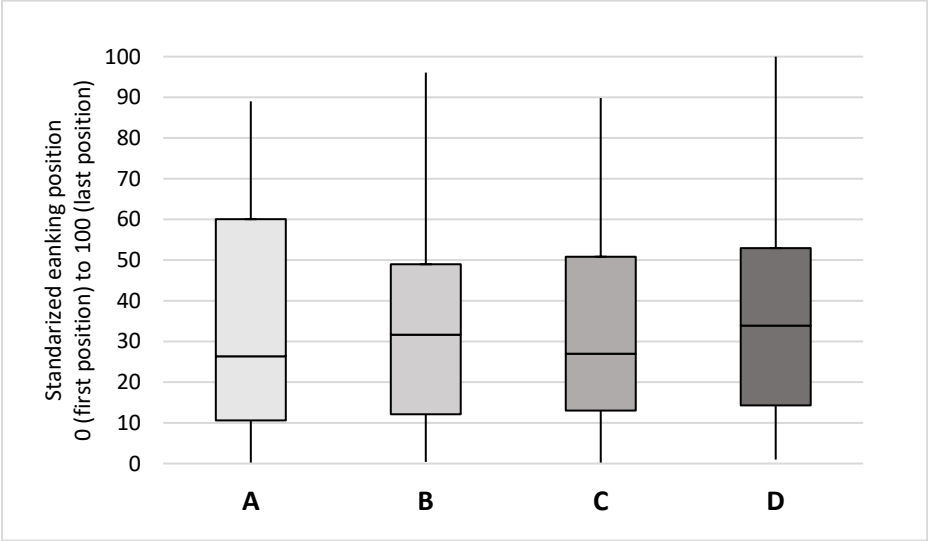

Figure S2. Violin plots representing A. all research outputs scored by Altmetric.com, B. all papers of the same journal, C. all papers of the same year and D. all papers of the same year and journal. Standardized ranking position is represented between 0 (first position) to 100 (last position).