**Supplementary Table 1.** Wild bat hosts of coronaviruses reported in published studies. All coronaviruses were considered in our search, but we highlight links between bat species and key bat coronavirus subgenera associated with human infections (e.g., *Sarbecovirus*), domestic animal infections (e.g., *Rhinacovirus*), or are widespread and well characterized (e.g., *Nobecovirus*) based on sequencing information available in the associated studies.

| **Bat species** | **Bat family** | **Key coronavirus subgenera** | **Reference** |
| --- | --- | --- | --- |
| *Emballonura alecto* | Emballonuridae | *Nobecovirus* | 5 |
| *Taphozous melanopogon* | Emballonuridae |  | 1,9 |
| *Taphozous perforatus* | Emballonuridae | *Merbecovirus* | 10,11 |
| *Aselliscus stoliczkanus* | Hipposideridae | *Rhinacovirus*  *Sarbecovirus* | 12,145,163,173,174 |
| *Hipposideros abae* | Hipposideridae | *Duvinacovirus* | 13 |
| *Hipposideros armiger* | Hipposideridae | *Hibecovirus*  *Merbecovirus*  *Nobecovirus Rhinacovirus*  *Sarbecovirus* | 1,9,14-17,145,174 |
| *Hipposideros bicolor* | Hipposideridae |  | 1 |
| *Hipposideros caffer* | Hipposideridae | *Duvinacovirus*  *Hibecovirus Sarbecovirus* | 1-4,142,163,172 |
| *Hipposideros cervinus* | Hipposideridae |  | 18,163 |
| *Hipposideros* cf. *caffer* | Hipposideridae | *Duvinacovirus Hibecovirus* | 19 |
| *Hipposideros* cf. *ruber* | Hipposideridae | *Duvinacovirus Hibecovirus* | 13,20-22 |
| *Hipposideros cineraceus* | Hipposideridae | *Rhinacovirus* | 23,152 |
| *Hipposideros curtus* | Hipposideridae | *Duvinacovirus* | 163,172 |
| *Hipposideros diadema* | Hipposideridae |  | 1,5,163 |
| *Hipposideros fuliginosus* | Hipposideridae | *Hibecovirus* | 163,172 |
| *Hipposideros galeritus* | Hipposideridae | *Sarbecovirus* | 1 |
| *Hipposideros gentilis* | Hipposideridae |  | 169 |
| *Hipposideros khaokhouayensis* | Hipposideridae |  | 169 |
| *Hipposideros larvatus* | Hipposideridae | *Hibecovirus*  *Nobecovirus*  *Rhinacovirus*  *Sarbecovirus* | 1,9,15,26,27,152,163,173,174 |
| *Hipposideros lekaguli* | Hipposideridae | *Nobecovirus* | 1,9,163 |
| *Hipposideros pomona* | Hipposideridae | *Hibecovirus*  *Rhinacovirus*  *Sarbecovirus* | 28-30,145,152,163,173,174 |
| *Hipposideros pratti* | Hipposideridae | *Hibecovirus*  *Rhinacovirus*  *Sarbecovirus* | 1,31,145 |
| *Hipposideros ruber* | Hipposideridae | *Duvinacovirus*  *Hibecovirus*  *Nobecovirus Sarbecovirus* | 1,4,141,142,156,163,172 |
| *Macronycteris gigas*  (formerly *Hipposideros gigas*) | Hipposideridae | *Duvinacovirus Hibecovirus* | 1,22,142,163,172 |
| *Macronycteris vittatus* (formerly *Hipposideros commersoni*) | Hipposideridae | *Duvinacovirus Hibecovirus*  *Nobecovirus* | 24,25,32 |
| *Cardioderma cor* | Megadermatidae |  | 24,32 |
| *Lyroderma lyra*  (formerly *Megaderma lyra*) | Megadermatidae |  | 1,9,163,174 |
| *Miniopterus africanus* | Miniopteridae |  | 24 |
| *Miniopterus australis* | Miniopteridae |  | 33 |
| *Miniopterus fuliginosus* | Miniopteridae |  | 1,14,30,31,34,35,140,162,171 |
| *Miniopterus fuscus* | Miniopteridae |  | 30,145 |
| *Miniopterus inflatus* | Miniopteridae |  | 1,22,24,142 |
| *Miniopterus magnater* | Miniopteridae |  | 1,9,36-39,163 |
| *Miniopterus minor* | Miniopteridae |  | 2,24,32 |
| *Miniopterus mossambicus* | Miniopteridae |  | 3 |
| *Miniopterus natalensis* | Miniopteridae |  | 7,24 |
| *Miniopterus pusillus* | Miniopteridae |  | 9,36-40,145,163,174 |
| *Miniopterus schreibersii* | Miniopteridae | *Merbecovirus*  *Rhinacovirus*  *Sarbecovirus* | 8,9,17,30,33,37,41-47,140,145,163,171,174 |
| *Chaerephon plicatus* | Molossidae | *Merbecovirus Sarbecovirus* | 26,31,48,49,152,169,174 |
| *Chaerephon pumilus* | Molossidae | *Duvinacovirus Nobecovirus* | 1-4,6,24,142,163 |
| *Cynomops abrasus* | Molossidae |  | 50 |
| *Cynomops planirostris* | Molossidae |  | 50 |
| *Eumops glaucinus* | Molossidae | *Merbecovirus* | 51 |
| *Molossus currentium* | Molossidae |  | 52 |
| *Molossus molossus* | Molossidae |  | 53-55 |
| *Molossus rufus* | Molossidae |  | 51,52,54,55 |
| *Mops condylurus* | Molossidae | *Hibecovirus*  *Nobecovirus* | 1-3,6,142,163,172 |
| *Mops midas* | Molossidae |  | 3,7,163 |
| *Mormopterus francoismoutoui* | Molossidae |  | 3 |
| *Mormopterus jugularis* | Molossidae |  | 3 |
| *Nyctinomops laticaudatus* | Molossidae | *Merbecovirus* | 1,56 |
| *Otomops martiensseni* | Molossidae |  | 24,32,163 |
| *Tadarida brasiliensis* | Molossidae |  | 1,53,56,158 |
| *Tadarida teniotis* | Molossidae | *Sarbecovirus* | 8,57 |
| *Pteronotus davyi* | Mormoopidae |  | 54 |
| *Pteronotus parnellii* | Mormoopidae |  | 1,52,56 |
| *Pteronotus personatus* | Mormoopidae |  | 1 |
| *Mystacina tuberculata* | Mystacinidae |  | 58 |
| *Nycteris* cf. *gambiensis* | Nycteridae | *Merbecovirus* | 59 |
| *Nycteris macrotis* | Nycteridae | *Merbecovirus* | 141 |
| *Nycteris thebaica* | Nycteridae | *Merbecovirus* | 3 |
| *Nycteris tragata* | Nycteridae |  | 163 |
| *Anoura caudifer* | Phyllostomidae |  | 1,163 |
| *Anoura geoffroyi* | Phyllostomidae |  | 52 |
| *Artibeus jamaicensis* | Phyllostomidae |  | 1,52,56,60 |
| *Artibeus lituratus* | Phyllostomidae |  | 1,51,52,55,56 |
| *Artibeus obscurus* | Phyllostomidae |  | 1,163 |
| *Artibeus planirostris* | Phyllostomidae |  | 1,163 |
| *Carollia brevicauda* | Phyllostomidae |  | 52 |
| *Carollia castanea* | Phyllostomidae |  | 60 |
| *Carollia perspicillata* | Phyllostomidae |  | 1,51,52,56,60,61 |
| *Carollia sowelli* | Phyllostomidae |  | 1,56 |
| *Dermanura phaeotis*  (formerly *Artibeus phaeotis*) | Phyllostomidae |  | 1,56 |
| *Desmodus rotundus* | Phyllostomidae |  | 50,62,63,143,164 |
| *Glossophaga soricina* | Phyllostomidae |  | 1,50,51,55,60,61 |
| *Lichonycteris obscura* | Phyllostomidae |  | 163 |
| *Lonchorhina aurita* | Phyllostomidae |  | 1,56 |
| *Mesophylla macconnelli* | Phyllostomidae |  | 1,163 |
| *Phyllostomus discolor* | Phyllostomidae |  | 52,55 |
| *Sturnira erythromos* | Phyllostomidae |  | 1,163 |
| *Sturnira lilium* | Phyllostomidae |  | 1,51 |
| *Acerodon celebensis* | Pteropodidae | *Nobecovirus* | 163 |
| *Cynopterus brachyotis* | Pteropodidae | *Nobecovirus* | 1,5,9,27,64,65,163,170 |
| *Cynopterus horsfieldii* | Pteropodidae | *Nobecovirus* | 1,163 |
| *Cynopterus sphinx* | Pteropodidae | *Nobecovirus* | 1,9,23,27,145,147,163,169 |
| *Dobsonia moluccensis* | Pteropodidae | *Nobecovirus* | 66 |
| *Dyacopterus spadiceus* | Pteropodidae | *Nobecovirus* | 1 |
| *Eidolon dupreanum* | Pteropodidae | *Nobecovirus* | 67 |
| *Eidolon helvum* | Pteropodidae | *Nobecovirus* | 1,2,4,6,10,11,24,32,68,141,142,163,172 |
| *Eonycteris spelaea* | Pteropodidae | *Nobecovirus* | 1,27,64,69-71,144,145,163,169,174 |
| *Epomophorus gambianus* | Pteropodidae | *Nobecovirus* | 1,141,156,163,172 |
| *Epomophorus labiatus* | Pteropodidae | *Nobecovirus* | 4,32 |
| *Epomops buettikoferi* | Pteropodidae | *Nobecovirus* | 163 |
| *Epomops franqueti* | Pteropodidae | *Nobecovirus* | 1,142,163,172 |
| *Macroglossus minimus* | Pteropodidae | *Nobecovirus* | 5,72,170 |
| *Megaerops ecaudatus* | Pteropodidae | *Nobecovirus* | 163 |
| *Megaerops kusnotoi* | Pteropodidae | *Nobecovirus* | 23 |
| *Megaerops niphanae* | Pteropodidae | *Nobecovirus* | 1,27 |
| *Megaloglossus woermanni* | Pteropodidae | *Nobecovirus* | 1,142,163,172 |
| *Micropteropus pusillus* | Pteropodidae | *Nobecovirus* | 1,20,142,163,172 |
| *Myonycteris angolensis*  (formerly *Lissonycteris angolensis*) | Pteropodidae | *Duvinacovirus*  *Hibecovirus*  *Nobecovirus* | 1,4,6,141,163 |
| *Myonycteris torquata* | Pteropodidae | *Nobecovirus* | 163,172 |
| *Nanonycteris veldkampii* | Pteropodidae | *Nobecovirus* | 141 |
| *Ptenochirus jagori* | Pteropodidae | *Nobecovirus* | 5,64 |
| *Pteropus alecto* | Pteropodidae | *Nobecovirus* | 1,33,73 |
| *Pteropus conspicillatus* | Pteropodidae | *Nobecovirus* | 163 |
| *Pteropus lylei* | Pteropodidae | *Nobecovirus* | 74,163 |
| *Pteropus medius* (formerly *Pteropus giganteus*) | Pteropodidae | *Nobecovirus* | 1,75-77,163 |
| *Pteropus rufus* | Pteropodidae | *Nobecovirus* | 67 |
| *Rousettus aegyptiacus* | Pteropodidae | *Nobecovirus* | 1,2,4,6,24,32,78,141,163,172 |
| *Rousettus amplexicaudatus* | Pteropodidae | *Nobecovirus* | 1,5,27,64,170 |
| *Rousettus leschenaultii* | Pteropodidae | *Merbecovirus*  *Nobecovirus* | 1,23,27-29,40,71,79-81,159,162,163,174 |
| *Rousettus madagascariensis* | Pteropodidae | *Nobecovirus* | 3 |
| *Rhinolophus acuminatus* | Rhinolophidae | *Sarbecovirus* | 151,163 |
| *Rhinolophus affinis* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 1,12,30,47,82,83,145,146,161,163,169,174 |
| *Rhinolophus blasii* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 45,163 |
| *Rhinolophus* cf. *clivosus* | Rhinolophidae | *Duvinacovirus*  *Sarbecovirus* | 6,139 |
| *Rhinolophus clivosus* | Rhinolophidae | *Duvinacovirus*  *Hibecovirus Rhinacovirus, Sarbecovirus* | 1,4,84 |
| *Rhinolophus cornutus* | Rhinolophidae | *Sarbecovirus* | 85,148 |
| *Rhinolophus creaghi* | Rhinolophidae | *Sarbecovirus* | 1,163 |
| *Rhinolophus darlingi* | Rhinolophidae |  | 141 |
| *Rhinolophus euryale* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 8,45,86,163 |
| *Rhinolophus ferrumequinum* | Rhinolophidae | *Merbecovirus*  *Nobecovirus Rhinacovirus Sarbecovirus* | 1,8,12,17,23,29,31,43-45,57,78,83,86,89-93,140,145,159,160,163,171,174 |
| *Rhinolophus fumigatus* | Rhinolophidae |  | 2 |
| *Rhinolophus hildebrandtii* | Rhinolophidae | *Sarbecovirus* | 32 |
| *Rhinolophus hipposideros* | Rhinolophidae | *Sarbecovirus* | 86,94,95,160,165 |
| *Rhinolophus landeri* | Rhinolophidae |  | 2,32 |
| *Rhinolophus lepidus* | Rhinolophidae |  | 163 |
| *Rhinolophus lobatus* | Rhinolophidae | *Rhinacovirus* | 3 |
| *Rhinolophus macrotis* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 17,43,83,91,145 |
| *Rhinolophus malayanus* | Rhinolophidae | *Rhinacovirus*  *Sarbecovirus* | 96,152,169,174 |
| *Rhinolophus marshalli* | Rhinolophidae | *Sarbecovirus* | 169 |
| *Rhinolophus megaphyllus* | Rhinolophidae |  | 33 |
| *Rhinolophus mehelyi* | Rhinolophidae | *Sarbecovirus* | 45,163 |
| *Rhinolophus monoceros* | Rhinolophidae | *Sarbecovirus* | 14,17,97 |
| *Rhinolophus pearsonii* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 17,43,91,174 |
| *Rhinolophus pusillus* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 17,31,46,49,82,83,93,98,99,145,152,153,163,169,174 |
| *Rhinolophus rex* | Rhinolophidae | *Rhinacovirus Sarbecovirus* | 1,17,82 |
| *Rhinolophus rhodesiae* | Rhinolophidae | *Rhinacovirus* | 3 |
| *Rhinolophus rufus* | Rhinolophidae | *Nobecovirus* | 5 |
| *Rhinolophus shameli* | Rhinolophidae | *Rhinacovirus*  *Sarbecovirus* | 1,9,27,83,150 |
| *Rhinolophus sinicus* | Rhinolophidae | *Nobecovirus*  *Rhinacovirus Sarbecovirus* | 1,12,17,23,30,31,38,40,43,82,83,100-109,145,147,152,159,163,173,174 |
| *Rhinolophus stheno* | Rhinolophidae | *Rhinacovirus*  *Sarbecovirus* | 29,152,161 |
| *Rhinolophus thomasi* | Rhinolophidae | *Rhinacovirus*  *Sarbecovirus* | 17,163 |
| *Rhinolophus trifoliatus* | Rhinolophidae |  | 18,163 |
| *Rhinonicteris aurantia* | Rhinonycteridae | *Hibecovirus* | 33 |
| *Triaenops afer* | Rhinonycteridae | *Setracovirus* | 1,3,32,142 |
| *Triaenops menamena* | Rhinonycteridae |  | 3 |
| *Triaenops persicus* | Rhinonycteridae | *Merbecovirus Nobecovirus Setracovirus* | 1,6,142 |
| *Rhinopoma hardwickii* | Rhinopomatidae | *Nobecovirus*  *Sarbecovirus* | 10,163 |
| *Bauerus dubiaquercus* | Vespertilionidae |  | 1 |
| *Chalinolobus gouldii* | Vespertilionidae |  | 110 |
| *Chalinolobus morio* | Vespertilionidae |  | 110 |
| *Corynorhinus townsendii* | Vespertilionidae |  | 154 |
| *Eptesicus fuscus* | Vespertilionidae |  | 56,111-113,149 |
| *Eptesicus isabellinus* | Vespertilionidae | *Merbecovirus* | 42 |
| *Eptesicus nilssonii* | Vespertilionidae | *Merbecovirus* | 114 |
| *Eptesicus serotinus* | Vespertilionidae | *Merbecovirus* | 8,92,98,115,116,171 |
| *Glauconycteris poensis* | Pteropodidae |  | 163 |
| *Glauconycteris variegata* | Pteropodidae | *Nobecovirus* | 163 |
| *Falsistrellus mackenziei* | Vespertilionidae |  | 110 |
| *Hypsugo alaschanicus* | Vespertilionidae |  | 140,171 |
| *Hypsugo pulveratus* | Vespertilionidae | *Merbecovirus* | 101,159 |
| *Hypsugo savii* | Vespertilionidae | *Merbecovirus* | 42,94,117 |
| *Ia io* | Vespertilionidae | *Merbecovirus* | 1,118,145 |
| *Kerivoula hardwickii* | Vespertilionidae |  | 163 |
| *Kerivoula pellucida* | Vespertilionidae |  | 163 |
| *Kerivoula titania* | Vespertilionidae |  | 14 |
| *Murina cyclotis* | Vespertilionidae |  | 152 |
| *Murina leucogaster* | Vespertilionidae |  | 17,23 |
| *Murina recondita* | Vespertilionidae |  | 14 |
| *Myotis adversus* | Vespertilionidae |  | 174 |
| *Myotis aurascens* | Vespertilionidae |  | 171 |
| *Myotis bechsteinii* | Vespertilionidae |  | 119,120 |
| *Myotis blythii* (includes *Myotis oxygnathus*) | Vespertilionidae |  | 42,89,115 |
| *Myotis bombinus* | Vespertilionidae |  | 140 |
| *Myotis brandtii* | Vespertilionidae |  | 114 |
| *Myotis californicus* | Vespertilionidae |  | 1 |
| *Myotis capaccinii* | Vespertilionidae |  | 8 |
| *Myotis chinensis* | Vespertilionidae |  | 145,174 |
| *Myotis dasycneme* | Vespertilionidae |  | 116,120,121,167 |
| *Myotis daubentonii* | Vespertilionidae | *Merbecovirus Rhinacovirus* | 1,8,23,29,31,42,86,89,114,116,120-122,163,167 |
| *Myotis davidii* | Vespertilionidae |  | 17 |
| *Myotis emarginatus* | Vespertilionidae |  | 41,90 |
| *Myotis evotis* | Vespertilionidae |  | 113 |
| *Myotis fimbriatus* | Vespertilionidae |  | 14,98,163 |
| *Myotis formosus*  (formerly *Myotis flavus*) | Vespertilionidae |  | 14 |
| *Myotis horsfieldii* | Vespertilionidae | *Nobecovirus* | 1,27,145,163 |
| *Myotis ikonnikovi* | Vespertilionidae | *Merbecovirus* | 171 |
| *Myotis laniger* | Vespertilionidae | *Rhinacovirus* | 152,163 |
| *Myotis longipes* | Vespertilionidae |  | 1,174 |
| *Myotis lucifugus* | Vespertilionidae |  | 113,123,124,125 |
| *Myotis macrodactylus* | Vespertilionidae |  | 140,171 |
| *Myotis macropus* | Vespertilionidae |  | 33,126 |
| *Myotis muricola* | Vespertilionidae |  | 152 |
| *Myotis myotis* | Vespertilionidae |  | 1,8,42,86,89,127,157 |
| *Myotis nattereri* | Vespertilionidae |  | 8,41,86,89,116,119,122 |
| *Myotis nigricans* | Vespertilionidae |  | 51 |
| *Myotis occultus* | Vespertilionidae |  | 111 |
| *Myotis pequinius* | Vespertilionidae | *Merbecovirus* | 98 |
| *Myotis petax* | Vespertilionidae |  | 140,171 |
| *Myotis pilosus*  (formerly *Myotis ricketti*) | Vespertilionidae | *Merbecovirus*  *Rhinacovirus* | 1,31,38,43,46,98,145,163,174 |
| *Myotis punicus* | Vespertilionidae |  | 8 |
| *Myotis riparius* | Vespertilionidae |  | 51 |
| *Myotis siligorensis* | Vespertilionidae | *Merbecovirus*  *Rhinacovirus* | 17,163,174 |
| *Myotis velifer* | Vespertilionidae |  | 1,56 |
| *Myotis volans* | Vespertilionidae |  | 113 |
| *Myotis welwitschii* | Vespertilionidae |  | 163 |
| *Neoromicia capensis* | Vespertilionidae | *Merbecovirus* | 7,128,129 |
| *Neoromicia* cf. *zuluensis* | Vespertilionidae | *Merbecovirus* | 130 |
| *Neoromicia somalica* | Vespertilionidae | *Nobecovirus* | 163 |
| *Nyctalus lasiopterus* | Vespertilionidae |  | 42 |
| *Nyctalus leisleri* | Vespertilionidae |  | 45 |
| *Nyctalus noctula* | Vespertilionidae | *Merbecovirus* | 94,121,157 |
| *Nyctalus plancyi*  (includes *Nyctalus velutinus*) | Vespertilionidae |  | 1,31 |
| *Nyctophilus geoffroyi* | Vespertilionidae |  | 110 |
| *Nyctophilus gouldi* | Vespertilionidae |  | 110 |
| *Perimyotis subflavus* | Vespertilionidae |  | 131 |
| *Pipistrellus abramus* | Vespertilionidae | *Merbecovirus*  *Nobecovirus*  *Sarbecovirus* | 31,38,43,92,101,118,132,145,171,174 |
| *Pipistrellus* cf. *hesperidus* | Vespertilionidae | *Merbecovirus* | 6,133 |
| *Pipistrellus coromandra* | Vespertilionidae | *Merbecovirus* | 1,27,163 |
| *Pipistrellus hesperidus* | Vespertilionidae | *Merbecovirus* | 1,163 |
| *Pipistrellus inexspectatus* | Vespertilionidae |  | 172 |
| *Pipistrellus kuhlii* (includes *Pipistrellus deserti*) | Vespertilionidae | *Merbecovirus Nobecovirus* | 10,42,78,89,94,117,134,168 |
| *Pipistrellus nathusii* | Vespertilionidae | *Merbecovirus* | 59,119,120 |
| *Pipistrellus pipistrellus* | Vespertilionidae | *Merbecovirus* | 1,41,43,59,89,118,121,135,157,166 |
| *Pipistrellus pygmaeus* | Vespertilionidae | *Merbecovirus* | 59,86,116,119,120,167 |
| *Pipistrellus tenuis*  (formerly *Pipistrellus minus*) | Vespertilionidae | *Merbecovirus* | 118 |
| *Plecotus auritus* | Vespertilionidae | *Merbecovirus Sarbecovirus* | 57,89 |
| *Plecotus taivanus* | Vespertilionidae |  | 14 |
| *Scotophilus dinganii* | Vespertilionidae | *Nobecovirus* | 1,32,142,172 |
| *Scotophilus heathii* | Vespertilionidae | *Nobecovirus* | 9,26,163,174 |
| *Scotophilus kuhlii* | Vespertilionidae | *Nobecovirus* | 1,9,14,27,43,97,136,137,145,147,163,174 |
| *Scotophilus leucogaster* | Vespertilionidae | *Nobecovirus* | 1,172 |
| *Scotophilus nux* | Vespertilionidae |  | 1,163,172 |
| *Submyotodon latirostris* | Vespertilionidae |  | 14 |
| *Tylonycteris pachypus* | Vespertilionidae | *Merbecovirus*  *Rhinacovirus* | 1,31,38,43,46,101,118,132,145,155,159,163,174 |
| *Tylonycteris robustula* | Vespertilionidae | *Rhinacovirus* | 101,174 |
| *Vespadelus baverstocki* | Vespertilionidae |  | 110 |
| *Vespadelus pumilus* | Vespertilionidae |  | 33 |
| *Vespadelus regulus* | Vespertilionidae |  | 110 |
| *Vespertilio murinus* | Vespertilionidae | *Merbecovirus* | 157 |
| *Vespertilio sinensis* (formerly *Vespertilio superans*) | Vespertilionidae | *Merbecovirus*  *Hibecovirus* | 1,31,92,118,138,145,171 |

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