Table S1. The list of references pertaining the guilds of bat species in the Japanese archipelago.

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| --- | --- | --- | --- |
| **Taxon** | **Shortened name** | **Guild** | **Reference** |
| *Pteropus dasymallus* | Pt\_das | Frugivore | Ohdachi et al. (2015) |
| *Pteropus pselaphon* | Pt\_pse | Frugivore | Ohdachi et al. (2015) |
| *Rhinolophus nippon* | Rh\_nip | Narrow | Funakoshi and Maeda (2003) |
| *Rhinolophus cornutus* | Rh\_cor | Unknown |  |
| *Rhinolophus pumilus* | Rh\_pum | Narrow | Yoshino and Tamura (2009) |
| *Rhinolophus perditus* | Rh\_per | Unknown |  |
| *Hipposideros turpis* | Hi\_tur | Narrow | Maeda and Hashimoto (2002);  Fukui et al. (2009) |
| *Eptesicus japonensis* | Ep\_jap | Unknown |  |
| *Eptesicus nilssonii* | Ep\_nil | Edge | Wermundsen and Siivonen (2008) |
| *Nyctalus aviator* | Ny\_avi | Open | Niga et al. (2023) |
| *Nyctalus furvus* | Ny\_fur | Unknown |  |
| *Pipistrellus abramus* | Pi\_abr | Open | Tosuji and Shibata (2003);  Hiryu et al. (2008) |
| *Pipistrellus endoi* | Pi\_end | Unknown |  |
| *Barbastella pacifica* | Ba\_pac | Edge | Teshima et al. (2022) |
| *Plecotus sacrimontis* | Pl\_sac | Narrow | Teshima et al. (2022) |
| *Hypsugo alaschanicus* | Hy\_ala | Unknown |  |
| *Vespertilio murinus* | Ve\_mur | Open | Safi et al. (2007) |
| *Vespertilio sinensis* | Ve\_sin | Unknown |  |
| *Myotis rufoniger* | My\_ruf | Unknown |  |
| *Myotis longicaudatus* | My\_lon | Unknown |  |
| *Myotis sibiricus* | My\_sib | Unknown |  |
| *Myotis ikonnikovi* | My\_iko | Edge | Fukui et al. (2011) |
| *Myotis macrodactylus* | My\_mac | Edge | Fukui et al. (2011);  Mizuguchi et al. (2022) |
| *Myotis bombinus* | My\_bom | Unknown |  |
| *Myotis petax* | My\_pet | Edge | Akasaka et al. (2009) |
| *Myotis pruinosus* | My\_pru | Unknown |  |
| *Myotis yanbarensis* | My\_yan | Unknown |  |
| *Murina hilgendorfi* | Mu\_hil | Narrow | Fukui et al. (2011) |
| *Murina ryukyuana* | Mu\_ryu | Unknown |  |
| *Murina ussuriensis* | Mu\_uss | Narrow | Fukui et al. (2011) |
| *Miniopterus fuliginosus* | Mi\_ful | Open | Funakoshi and Uchida (1975) |
| *Miniopterus fuscus* | Mi\_fus | Open | Maeda and Hashimoto 2002;  Fukui et al. 2009 |
| *Tadarida insignis* | Ta\_ins | Unknown |  |
| *Tadarida latouchei* | Ta\_lat | Unknown |  |

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