

Special Issue

Bat Diversity, Systematics, Taxonomy, and Phylogeny

Message from the Guest Editor

Bats (Chiroptera), the second-largest mammalian order with over 1,400 species, exhibit remarkable adaptations such as flight, echolocation, diverse diets, extreme longevity, and virus tolerance, all linked to their specialized immune systems. These traits enable bats to thrive in various ecological niches worldwide. To understand the molecular basis of these adaptations, an accurate phylogeny is crucial. However, phylogenetic conflicts arise at various taxonomic levels, potentially due to biological factors like incomplete lineage sorting and introgression, as well as analytical issues such as taxon and locus sampling. Resolving these conflicts requires advanced methods like multispecies coalescent (MSC) and multispecies network (MSN) based on genome-wide nuclear data. Chromosomal information, including rearrangements and synteny, can also be instrumental in clarifying deep phylogenetic relationships. This Special Issue invites original research and reviews on bat diversity, phylogeny, and evolution, focusing on genetic markers, phylogeography, and chromosomal evolution, with implications for understanding bat phylogeny.

Guest Editor

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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