

SYMPOSIUM 23: ECOSYSTEM FUNCTION, ECOLOGY AND EVOLUTION OF BATS: A TRIBUTE TO ELISABETH K. V. KALKO

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Ecosystem function and services are the ecological and economical benefits provided by biodiversity. Bats are recognized for their role in herbivore control, seed dispersal, and pollination. However, they have other important functions, such as hosts to several infectious agents that can affect human health. In this symposium, we will present state-of-the-art research on the ecological and economic impact of ecosystem functions and services rendered by bats in the tropics, aiming at discussing their role in a broad context and at pointing out new research directions. In addition, the symposium will also highlight the latest ecological vanguard in tropical bat research. In particular, a series of talks revolving around the ecology, evolution, and conservation of tropical bats will highlight the value of bats in human-altered ecosystems.

TALKS

1. **The ornaments of life: evolution of bat-plant interactions.** *Theodore H. Fleming*
2. **Acoustic analysis of fruit bat activity in fragmented Central Amazonian forest.** *Kevina Vulinec*
3. **Are Neotropical bats good indicators of environmental disturbances?** *Enrico Bernard*
4. **Bat diversity along a human disturbance gradient on Mount Kilimanjaro.** *Maria Helbig*
5. **Fragmentation effects on Neotropical bats: lessons learned from Panamanian land-bridge islands.** *Christoph Meyer*
6. **Monitoring program and conservation of the Bat fauna associated to the Santo Antonio hydroelectric dam, western Brazil.** *Valéria Tavares*
7. **Bat-plant networks: small mutualistic worlds.** *Marco A. R. Mello*
8. **Bats as pollen and seed vectors in the Pantanal, Brazil.** *Erich A. Fischer*
9. **Seed dispersal by bats in French Guiana and the Neotropics.** *Cullen Geiselman*,
10. **Interindividual variations in use of space and fruit preferences of the bat *Sturnira lilium*.** *Renata de Lara Muylaert*
11. **Bat assemblages and parasites under different cattle ranching intensities on Pantanal, Brazil.** *Carolina Ferreira Santos*
12. **Differences in bat fly prevalence and mean intensities between Cerrado and Pantanal.** *Alan Eriksson*

13. **Spatial variation in Amazonian bat and bird assemblages under contrasting flooding regimes.** *Maria João Ramos Pereira*
14. **Frugivore and nectarivore ensembles in riparian habitats in tropical dry forest: implications for conservation.** *Julieta Benitez*
15. **Use of space by the bat *Sturnira lilium* (Chiroptera: Phyllostomidae) in a heterogeneous Cerrado area.** *Patricia Rogeri*
16. **Why do females hang loose?** *Martha Condon*
17. **Phyllostomid bats protein gut analysis by SDS-PAGE and their implication on feeding ecology.** *Fernando Gonçalves*
18. **Global patterns of phylogenetic turnover in bats.** *Franciele Parreira Peixoto*

POSTERS

1. **Sexual dimorphism and allometry in fruit bats.** *Alêny Lopes Francisco*
2. **Identification of suitable areas in Brazilian Atlantic forest for the rare and threatened nectar bat *Lonchophylla bokermanni*.** *Tiago Souto*
3. **Bat fauna in an urban forest fragment in the Juiz de Fora municipality, Minas Gerais State, Brazil.** *Pedro Henrique Nobre Nobre*
4. **Resource shared between frugivorous bat (Chiroptera) in urban Cerrado fragments.** *Josué Raizer*
5. **Diversity of bats in the western edge of the Pantanal floodplain, Brazil.** *Maurício Silveira*
6. **Influence of vegetation structure on a bat community in the South Pantanal floodplain, Brazil.** *Maurício Silveira*
7. **Feeding habits divergence and the composition of phyllostomid bat assemblages in the Cerrado-Pantanal savannas.** *Roberto Lobo Munin*
8. **The use of Phyllostomids bats as indicators of habitat disruption in a tropical dry forest.** *Luiz Falcão*
9. **Bats contribute to the germination of *Cecropia pachystachya* seeds.** *Josué Raizer*
10. **Bats ensure pollination of *Bauhinia rufa* (Bong.) Steud. (Leguminosae) in fragmented landscape of cerrado in São Paulo State, Southeastern Brazil.** *Raquel Arruda Santos*
11. **Predation risk effects of predator identity on the foraging behaviours of frugivorous bats.** *Gustavo Cauê Piccoli*
12. **Are caves the dead ends for seeds dispersed by frugivore bats?** *Rodrigo Ferreira Fadini*
13. **Preliminary assessment of the long-term impacts of fragmentation upon Neotropical bats.** *Ricardo Rocha*