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## **Zoogeographic Congruence Analysis of the Phylogeny of Nycterid Bat Species**

Scott Soderquist  
*Illinois Wesleyan University*

Thomas Griffiths, Faculty Advisor  
*Illinois Wesleyan University*

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Poster Presentation 49

**ZOOGEOGRAPHIC CONGRUENCE ANALYSIS OF THE PHYLOGENY  
OF NYCTERID BAT SPECIES**

Scott Soderquist and Thomas Griffiths\*, Department of Biology, IWU

Distributional data were obtained for six species of bats from the Family Nycteridae to attempt to test the validity of a previously published phylogeny (Griffiths, 1994, 1997) that was produced based on morphological data. Geographical data and localities from a number of primary scientific sources were used to establish the existing range of each species of nycterid bat. Apparently, dispersal of species in tropical Africa since their times of speciation has extended their ranges. Thus this analysis was impeded by the fact that most of the species in the study had overlapping ranges due to dispersal. Because of this difficulty, the congruence analysis performed here cannot be used to support the phylogeny of Griffiths (1994, 1997).