# THE FORGOTTEN POLLINATORS - FIRST FIELD EVIDENCE FOR NECTAR-FEEDING BY PRIMARILY INSECTIVOROUS ELEPHANTSHREWS 

by Petra Wester

Pollination of plants by non-flying mammals, such as mice (rodents, Rodentia), is a rarely observed phenomenon. Previously, elephant-shrews (Macroscelidea, Afrotheria), small African mammals looking similar to mice, but not being related to them, were believed to be purely insectivorous. Occasional flower visits of elephant-shrews in captivity were interpreted as a by-product of the search for insects. Only recently, it was demonstrated that under lab conditions elephant-shrews regularly lick nectar from flowers. However, field observations of flower-visiting elephant-shrews and their role as pollinators were completely missing. In this study, I present the first evidence for flower visits and nectar consumption for elephantshrews in the field. With video camcorders and infrared lights I recorded Cape rock elephant-shrews (Elephantulus edwardii) beside Namaqua rock mice (Micaelamys namaquensis) visiting flowers of the Pagoda lily (Whiteheadia bifolia, Asparagaceae) under natural conditions in the Namaqualand of South Africa. With their very long tongues, the elephant-shrews visited the flowers non-destructively, definitely licking nectar, but not feeding on insects. The footage clearly shows that the elephant-shrews' fur around their long noses touches the pollen-sacs and the
stigmas of the flowers and that the animals' fur is being dusted with pollen. As the elephant-shrews visited several flowers of different plants, it is obvious that they transfer pollen between the plants. This observation contributes to the knowledge about the behaviour of these representatives of a unique clade of small African mammals - especially in their natural habitat.


A Cape rock elephant-shrew licks nectar from flowers of the Pagoda Lily growing in rock crevices in the Namaqualand of South Africa. Image from infrared video footage.

