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Haematology and serum biochemistry of three Australian desert murids: the Plains rat (*Pseudomys australis*), the Spinifex hopping-mouse (*Notomys alexis*) and the Central rock-rat (*Zyzomys pedunculatus*)

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Abstract Haematological and serum biochemical data have been collected from a total of 19 captive-bred Australian native murids (Plains rat, Spinifex hopping-mouse and Central rock-rat). These animals were maintained in a captive population at Alice Springs Desert Park (NT, Australia) and are all central desert inhabitants of Australia. They are currently listed as common, threatened and critically endangered, respectively. Given the status and size of these animals, only small sample numbers and volumes were analysed. The study, however, provides some basic haematology and serum biochemistry information for these three species and will serve as an effective management tool for assessing and monitoring the health status of individuals, particularly those in captivity.

Keywords Australian native rodent · Plains rat · Spinifex hopping-mouse · Central rock-rat · Haematology · Blood biochemistry

Introduction

The Plains rat (*Pseudomys australis*), Spinifex hopping-mouse (*Notomys alexis*) and Central rock-rat (*Zyzomys pedunculatus*) are three desert-dwelling species of Australian murids belonging to the subfamily Hydromyinae. Murids are ecologically important mammals—less well known than their marsupial mammal counterparts but crucial to the overall health of ecosystems. They play an essential role in seed dispersal and as a food resource for other animals. However, ecosystem damage (such as that caused by introduced species, particularly foxes and cats; a change in landscape due to farming activities; and a change in burning regimes) has resulted in a significant decrease in several Australian native species.

Two of the three species targeted in this study are at risk. The Central rock-rat is listed as critically endangered, whilst the Plains rat is listed as threatened (Territory Parks and Wildlife Conservation Act 2000; International Union for the Conservation of Nature and Natural Resources). Little is known of their ecology or their basic biology, with the exception of limited studies of reproduction and pancreatic function of the Plains rat (Edwin and Leigh 2000; Idriss et al. 2001). In contrast, the Spinifex hopping-mouse is common and is probably one of the most studied murid species in Australia as it is easily kept in captivity (Breed 1975, 1992; Breed and Adams 1992).

This study was directed at determining some baseline haematological and serum biochemistry parameters to help managers monitor the health of both captive and wild

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