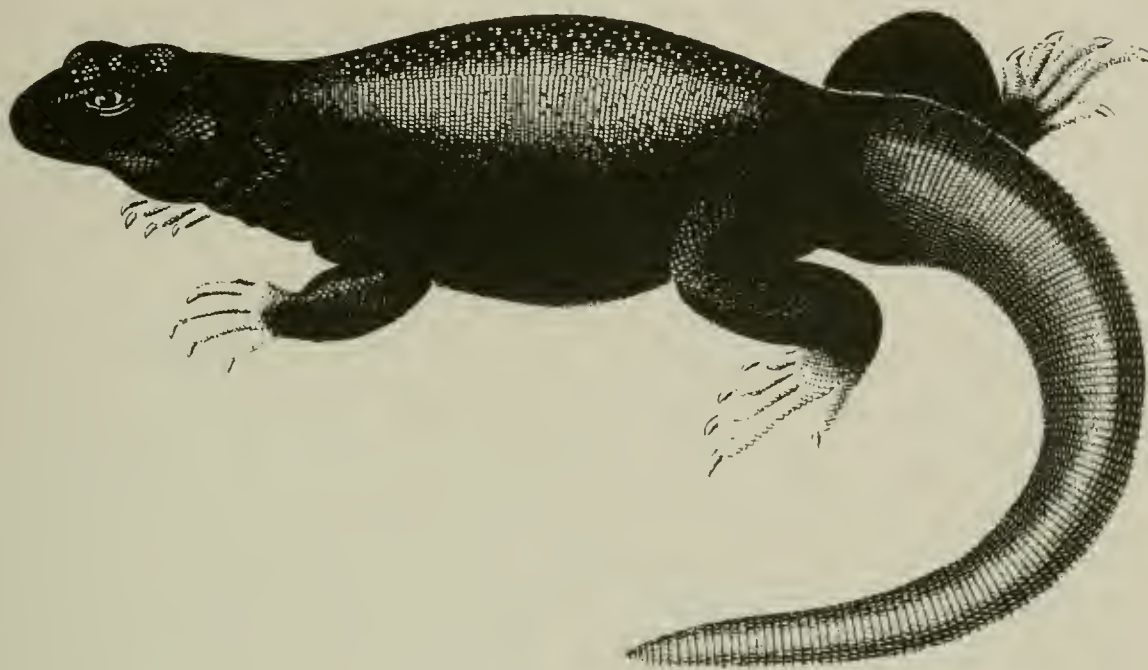


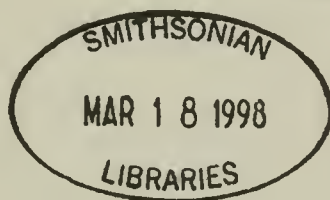
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BIBLIOGRAPHY  
OF  
*SAUROMALUS* (DUMÉRIL 1856), THE CHUCKWALLAS



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## Introduction

The lizard genus *Sauromalus* consists of a diverse group of diurnal herbivores inhabiting the deserts of southwestern United States and northwestern México, including more than 26 islands in the Gulf of California. Commonly known as chuckwallas, these large iguanids generally live on volcanic or granitic substrates, although some species also prefer nearby arroyo bottoms. Chuckwallas display a wide array of color patterns that undergo a degree of ontogenetic transformation, sometimes becoming sexually dichromatic. Body size varies from large to small, although when compared to other iguanid lizards, chuckwallas are approximately one half the size of the largest members in the family. Some species exceed an impressive snout-vent length of more than 300 mm, while others reach 220 mm or less.

The genus is well supported as a natural group within Iguanidae based on numerous morphological novelties (de Queiroz 1987). These unique features are associated with chuckwallas preference for rocky habitats and their ability to retreat into rock crevices to seek shelter. Their dorsoventrally compressed body results from a compression of both the pectoral and pelvic girdles, a more slender mandible, reduced neural spines, and the absence of a mid-dorsal scale row. Once inside a crevice, chuckwallas inflate their lungs if harassed, effectively wedging them into place and making extraction difficult.

As many as nine species have been described within *Sauromalus*, although only seven species are recognized at present (Table 1). In recent years, many authors have called into question the number species within the genus and the geographical boundaries in which they occur (Robinson 1972; Case 1982; Stebbins 1985; de Queiroz 1987). These taxonomic controversies are primarily the result of outdated systematic methodologies, insufficient diagnoses, and the absence of a reported type locality for the holotype, *Sauromalus ater*. The last taxonomic study of the entire genus was completed by Shaw (1945). Currently, the only formal phylogenetic analysis of the chuckwalla species is a unpublished Master's thesis (Hollingsworth, 1995) that is being edited for publication.

As this bibliography shows, chuckwallas have been the focus of numerous biological pursuits. *Sauromalus obesus* has been the main focus of investigation in studies requiring large sample sizes and long-term observation. Their wide-use in research is primarily the result of their accessibility from the United States. Some researchers have undertaken the extra effort in documenting the diet, behavior, ecology, and evolution of the insular endemics, *S. hispidus* and *S. varius*, which are found on the Mexican islands in the mid-rift region of the Gulf of California. Other species, such as, *S. ater*, *S. klauberi*, *S. slevini* and *S. australis* have received less attention. The sporadic literature on these species is most likely due to their inaccessibility on small islands in the Gulf of California and the remoteness of Baja California.

This bibliography provides the essential references for all those interested in these fascinating lizards. It was assembled with information from a variety of sources, relying most heavily on Zoological Record through December 1996. Every technical and popular article dealing with new information or syntheses of previous knowledge are included. The cover illustration of *Sauromalus obesus* is from Baird (1859).

We thank the following institutions for their help in compiling this bibliography: Section of Herpetology, Los Angeles County Museum of Natural History; Department of Biology, San Diego State University; Tierra Madre Consultants; Del Webb Memorial Library, Loma Linda University; Department of Natural Science, Loma Linda University; and Department of Biology, La Sierra University

Table 1. Various Classifications of *Sauromalus*.

## Van Denburgh, 1922:

*Sauromalus ater*  
*Sauromalus interbrachialis*  
*Sauromalus townsendi*  
*Sauromalus hispidus*  
*Sauromalus slevini*  
*Sauromalus varius*

## Schmidt, 1922:

*Sauromalus ater*  
*Sauromalus hispidus*  
*Sauromalus obesus*  
*Sauromalus townsendi*  
*Sauromalus varius*

## Shaw, 1945:

*Sauromalus ater*  
*Sauromalus australis*  
*Sauromalus hispidus*  
*Sauromalus klauberi*  
*Sauromalus slevini*  
*Sauromalus obesus townsendi*  
*S. obesus tumidus*  
*S. obesus obesus*

## Etheridge, 1982:

*Sauromalus ater ater*  
*S. ater klauberi*  
*S. ater shawi*  
*Sauromalus australis*  
*Sauromalus hispidus*  
*Sauromalus obesus multiforminatus*  
*S. obesus townsendi*  
*S. obesus tumidus*  
*S. obesus obesus*  
*Sauromalus slevini*  
*Sauromalus varius*

## Consensus of various authors as of 1996:

*Sauromalus ater ater*  
*S. ater shawi*  
*Sauromalus australis*  
*Sauromalus klauberi*  
*Sauromalus hispidus*  
*Sauromalus obesus multiforminatus*  
*S. obesus townsendi*  
*S. obesus tumidus*  
*S. obesus obesus*  
*Sauromalus slevini*  
*Sauromalus varius*

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