

# Morphology of the Basisphenoid pits and related structures of the bat *Otomops martiensseni* (Chiroptera: Molossidae)

Royal Ontario Museum - Peterson, Randolph L.

Description: -

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*Otomops martiensseni*. Morphology of the Basisphenoid pits and related structures of the bat *Otomops martiensseni* (Chiroptera: Molossidae)

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Life sciences contributions -- no. 119. Morphology of the Basisphenoid pits and related structures of the bat *Otomops martiensseni* (Chiroptera: Molossidae)

Notes: Summary also in French.

This edition was published in 1979

Tags: #Peterson, #Randolph #L.

**Peterson, Randolph L.**

Geoffroy 77260, 77273; *Ardops nicholsi* Thomas 71463, 71467; *Ariteus flavescens* Gray 37160; *Artibeus glaucus* Thomas 31643, 31644; *Brachyphylla cavernarum* Gray 74227, 74218; *Brachyphylla nana*



Filesize: 47.79 MB

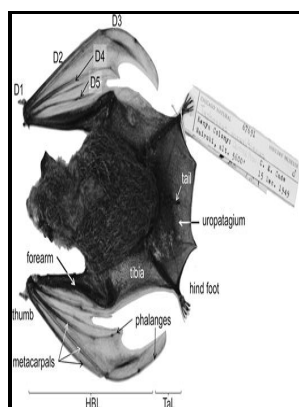
Miller 78441; *Carollia castanea* H. Geoffroy 28160, 18161; Both basisphenoid and basioccipital pits: *Megaderma spasma* Linnaeus 37991, 37992; *Rhinolophidae* — 1 genus, 28 species No pits: *Rhinolophus affinis* Horsfield 31192; *Rhinolophus aelyone* Temminck 46799; *Rhinolophus arcuatus* Peters 40691; *Rhinolophus blasii* Peters 45719; *Rhinolophus clivosus* Cretzschmar 40318; *Rhinolophus darlingi* K. Andersen 68846; *Rhinolophus deckenii* Peters 83932; *Rhinolophus denti* Thomas 83966, 83971; *Rhinolophus eloquens* K. Smith 41738, 41739, 46652, 46653, 48492, 48493, 59079, 59080, 60269, 60270; *Mops congicus* J.

## Basisphenoid and basioccipital pits in microchiropteran bats

Third is the difference between species emitting echolocation sounds through mouths vs. Andersen 71941; *Rhinolophus steno* K. Allen 670550; *Glauconycteris alboguttatus* J.

## Phylogeny of Molossidae Gervais (Mammalia: Chiroptera) inferred by morphological data, Cladistics

Journal of Mammalogy 85 5, 852-65. Geoffroy 91231; *Idionycteris phyllotis* G. For example, basisphenoid and basioccipital pits were absent in *Rhinolophidae*, *Noctilionidae* and *Antrozoidae*, whereas basioccipital pits were absent from and basisphenoid pits were rare in *Hipposideridae* and *Mormoopidae*.



## Details

Coefficients of variation calculated for values for the four families were similar between males and females, and were similar to values for coefficients of variation obtained from four external and cranial measurements. Predictably, cochlear and middle ear anatomy of bats have been interpreted within the context of echolocation , ; , but other variations in microchiropteran cranial anatomy also can be considered in the context of echolocation.

### **Basisphenoid and basioccipital pits in microchiropteran bats**

However, because basisphenoid pits are anterior to the origin of the tympanic muscle they are unlikely to serve this function. Although little is known about either the function or structure of basisphenoid and basioccipital pits, the former have been used in the classification of bat species from some families. In some families all species either had pits e.

### **Peterson, Randolph L.**

Cuvier 100202; Thyropteridae — 1 genus, 1 species No pits: Thyroptera tricolor Spix 78766; Myzopodidae — 1 genus, 1 species Basisphenoid pits: Myzopoda aurita Milne-Edwards and A. Journal of Mammalogy 13 3 pp.

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