

CHAPTER IV

## DISCUSSION AND CONCLUSION

Hair structures of some species of bat involved in the present work, were studied by Benedict (1957) and Sabnis (1979) by means of whole mount and plastic impression techniques. Their specimens were examined under light microscopes. Possibly because of the limitation of resolution, their results are comparatively different from the present studies, especially on medulla and cuticular scale as follow:

Species	Médulla	Scale characters
Rousettus leschenaulti	absent	corollar spinulate borders (S)
	present	divergent, broad lobate coronal (P)
Taphozous melanopogon	absent	corollar serrate borders (S)
	absent	divergent, dentate coronal (P)
		เกวิทยาลัย
Taphozous theobaldi	absent	corollar serrate borders (S)
	absent	divergent, dentate coronal (P)
<u>Megaderma</u> <u>lyra</u>	absent	serrate (S)
	present	divergent, unequal hastate
		with pointed peak coronal (P)

Species	Medulla	Scale character
Hipposideros cineraceus	absent	corollar borders (S)
	absent	slightly divergent, unequal
		hastate coronal (P)
Pipistrellus coromandra	absent	corollar borders (S)
	absent	slightly divergent, unequal
		hastate coronal (P)
Scotophilus heathi	absent	corollar serrate scale (S)
	absent	appress, unequal hastate
		coronal (P)
그렇다 소리된 정도 [4]		
Eonycteris spelaea	absent	divergent, entire coronal (B)
	absent	divergent, broad lobate
		coronal (P)
Aselliscus stoliczkanus	absent	entire to repand coronal (B)
	absent	unequal hastate coronal (P)
Harpiocephalus harpia	absent	repand to sinuate coronal (B)
	absent	unequal hastate coronal (P)

The common or striking different characters of hair of each group on page indicate that the identification should be reconsidered on the following points.

- 1. Group 1 : <u>Pteropus</u> has a unique striking difference from the other genera in all aspects.
- 2. Group 5 : <u>Craseonycteris</u> and <u>Megaderma</u> of Suborder 2 Microchiroptera having medulla, are similar to the common characters of suborder 1 Megachiroptera.
- 3. Group 7 : Contrary to group 5, <u>Eonycteris</u> of Suborder 1 Megachiroptera lacking of medulla, is the same as the common character of Suborder 2 Microchiroptera.
- 4. Group 8 and Group 9 : The Emballonuridae and molossidae possessing tooth edge coronal scales, would have some close relationship to each other.

Hair structures are not a primary significance of the diagnostic criterion, but the combination of their structures will be of valuable in using to confirm an identification made on the basis of other morphology. In some cases, the particular appearance of hair structure may be quite characteristic of a certain species and hence, be of great value in identification.