

have in every case clear proof that muscles when absent are lost by fusion (as for example the Hare, the Fox-Bat, the *Bathyergus*, the Cape-Mouse, &c. &c.).

If we study the subjoined tabular views of the intrinsic pedal muscles in mammalia, a considerable amount of light is thrown upon the relations of the different layers to each other. We notice—(1) that the intermediate group is the most constant of the three layers; (2) that the dorsal layer is the least constant, and the most variable, in several cases being wholly unrepresented; (3) that there is a striking tendency to fusion between the members of the intermediate and dorsal groups of muscles; and (4) that the plantar muscles almost invariably remain distinct from the subjacent muscles.

INTERMEDIATE LAYER—FLEXORES BREVES. (TABLE B.)

Pentadactylous Feet.

	Flexor brevis hallucis.	Flexor brevis indicis.	Flexor brevis medii.	Flexor brevis annularis.	Flexor brevis minimi digiti.
<i>Cuscus maculata</i> ,	Both heads	Both heads	Both heads	Both heads	Both heads
<i>Didelphys virginiana</i> ,	"	"	"	"	"
<i>Bathyergus capensis</i> ,	"	"	"	"	"
<i>Mus capensis</i> ,	"	"	"	"	"
<i>Pteropus</i> ,	"	"	"	"	"
<i>Trechechus rosmarus</i> ,	{ Fibular head tibial head (?)	"	"	"	"
<i>Phascogale calura</i> ,	Tibial head	"	"	"	"
<i>Lutra vulgaris</i> ,	"	"	"	"	"
<i>Phalangista vulpina</i> ,	Both heads	"	"	"	Fibular head
<i>Phascolarctos cinereus</i> ,	"	"	"	"	Tibial head
<i>Dasyurus viverrinus</i> ,	Tibial head (fused with ab- ductor)	"	"	"	Both heads
<i>Ornithorhynchus paradoxus</i> ,	Tibial head	"	"	"	...
<i>Meles taxus</i> ,	Both heads	"	Tibial head	Tibial head	Both heads
<i>Elephas indicus</i>, . . . . .	...	"	Both heads	Both heads	Tibial head
<i>Cælogenys paca</i> ,	Tibial head	"	"	"	Fibular head
<i>Castor fiber</i>, . . . . .	...	"	"	"	...
<i>Myrmecophaga tamandua</i> ,	Tibial head	Tibial head	Tibial head	Tibial head	Both heads
<i>Ateles</i> ,	Both heads	Fibular head	...	"	"
<i>Cynocephalus sphinx</i> ,	"	"	Tibial head	"	"
<i>Lemur</i> ,	Tibial head	"	Both heads	...	"
<i>Homo</i> ,	Both heads	...	Tibial head	Tibial head	"
<i>Echidna setosa</i> ,	"	Tibial head	...	...	Fibular head
<i>Armadillo</i>, . . . . .	"	...	...	...	"
	Both heads, 18 Tibial head, 7 Fibular head, 1	Both heads, 16 Tibial head, 2 Fibular head, 3	Both heads, 16 Tibial head, 4 Fibular head, ...	Both heads, 15 Tibial head, 5 Fibular head, ...	Both heads, 15 Tibial head, 2 Fibular head, 4
Total, 23	Total, 21	Total, 21	Total, 20	Total, 20	Total, 21