

Sexual dimorphism in the electrosensory-system

Supplementary Material

S-Table 1. Total number of axons in the dorsal root of the anterior lateral line nerve (ALLN). DW: Disc width (cm).

Specimen	Sex	DW	No. of ALLN (dorsal root) axons		
			Left	Right	Total
1	F	25.0	3220	3868	7088
2	F	26.0	4841	4885	9726
3	F	26.0	5492	5402	10894
4	F	28.5	7235	6884	14119
5	F	29.0	4652	4836	9488
6	F	30.0	7771	5612	13383
7	M	25.5	2480	2750	5230
8	M	27.0	3340	3756	7096
9	M	27.0	3748	3653	7401
10	M	32.0	3781	3984	7765

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S-Table 2. Morphological characteristics of the ampullae of Lorenzini in *Taeniura lymma*. A: Number of pores associated with each sub-dermal cluster; B: Width of pores; C: Length of canals connecting pores and ampullae. H: Hyoid cluster; S: Superficial ophthalmic cluster; M: Mandibular cluster; V: Ventral; D: Dorsal; DW: Disc width (cm).

A

Specimen	Sex	DW	Pore Abundance						
			Ventral				Dorsal		All
			S (S)	H (H)	M (M)	V-Sub Total	H (H)	D-Sub Total	Total
11	F	28	350	608	118	1076	173	173	1249
12	M	28	363	577	120	1060	178	178	1238
13	F	29	352	593	123	1068	176	176	1244
14	M	32	374	586	129	1088	186	186	1274
		Mean	360	769	123	1073	178	178	1251

B

Specimen	Pore Width (mm)			
	S (Mean ± SD) (Min - Max)	V-H (Mean ± SD) (Min - Max)	D-H (Mean ± SD) (Min - Max)	M (Mean ± SD) (Min - Max)
11	0.33 ± 0.04 (0.28 - 0.37)	0.31 ± 0.03 (0.27 - 0.36)	0.43 ± 0.11 (0.31 - 0.58)	0.19 ± 0.06 (0.10 - 0.23)
12	0.33 ± 0.04 (0.27 - 0.37)	0.30 ± 0.03 (0.26 - 0.34)	0.41 ± 0.10 (0.29 - 0.55)	0.18 ± 0.06 (0.09 - 0.23)
13	0.32 ± 0.04 (0.26 - 0.39)	0.32 ± 0.03 (0.26 - 0.37)	0.46 ± 0.11 (0.32 - 0.60)	0.20 ± 0.04 (0.13 - 0.24)
14	0.36 ± 0.04 (0.30 - 0.41)	0.32 ± 0.04 (0.27 - 0.39)	0.48 ± 0.12 (0.34 - 0.63)	0.22 ± 0.04 (0.15 - 0.26)

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C

Specimen	Canal Length (mm)			
	S (Mean ± SD)	V-H (Mean ± SD)	D-H (Mean ± SD)	M (Mean ± SD)
	(Min - Max)	(Min - Max)	(Min - Max)	(Min - Max)
11	22.15 ± 21.23 (3.31 - 58.24)	29.40 ± 45.70 (2.80 - 154.10)	59.10 ± 61.80 (19.20 - 181.10)	7.02 ± 1.33 (4.53 - 8.31)
12	21.74 ± 20.78 (3.50 - 57.07)	29.10 ± 45.40 (2.70 - 153.00)	57.10 ± 56.70 (18.80 - 177.40)	6.95 ± 1.30 (4.50 - 8.14)
13	23.01 ± 22.03 (3.53 - 60.45)	30.60 ± 47.40 (2.90 - 159.90)	71.90 ± 72.30 (19.90 - 188.00)	6.94 ± 1.55 (4.71 - 8.62)
14	25.86 ± 22.53 (3.54 - 62.31)	31.50 ± 48.90 (3.00 - 164.90)	63.30 ± 66.10 (20.60 - 193.70)	7.53 ± 1.42 (4.85 - 8.89)