

Supplementary File S1. Statistical analyses on photophore density (P_{De}), scale density (S_{De}) and, scale size (S_{Si}). **(a)** Means of TL, P_{De} , S_{De} and S_{Si} for every *S. aliae* development stages. **(b)** Pairwise comparisons using Dwass-Steele-Critchlow-Fligner all. Significant code: 0 ‘***’; 0.001 ‘**’; 0.01 ‘*’; 0.05 ‘.’; 0.1 ‘.’; 1. **(c)** Dwass-Steele-Critchlow-Fligner all-pairs test for photophores density, scales density and, scales size. Letters indicate statistical different groups. **(d)** Linear relation between scales density and scales size.

(a)

Development stages	Mean TL \pm s.d. (mm)	Mean $P_{De} \pm$ s.d. (photophores cm^{-2})	Mean $S_{De} \pm$ s.d. (scales cm^{-2})	Mean $S_{Si} \pm$ s.d. (mm)
Stage I	33.4 \pm 6.9	0	0	/
Stage II	52.8 \pm 3.6	0	1353 \pm 178	0.1617 \pm 0.0454
Stage III	59.4 \pm 2.9	1363 \pm 418	1569 \pm 270	0.1579 \pm 0.0482
Stage IV	72.4 \pm 3.8	2745 \pm 464	1265 \pm 282	0.2013 \pm 0.0582
Stage V	81 \pm 4.0	4020 \pm 682	1225 \pm 227	0.2139 \pm 0.0645
Stage VI	98.4 \pm 2.3	5873 \pm 855	971 \pm 174	0.2111 \pm 0.0517
Stage VII (adult)	192.8 \pm 24.9	7863 \pm 636	1265 \pm 199	0.2079 \pm 0.0488

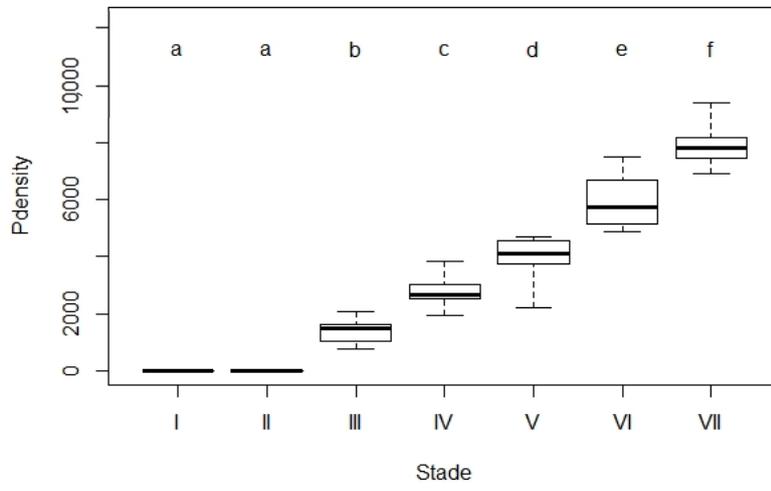
TL, total length; P_{De} , photophores density; S_{De} , scales density; S_{Si} , scales relative size.
Data are mean \pm s.d. (standard deviation)

(b)

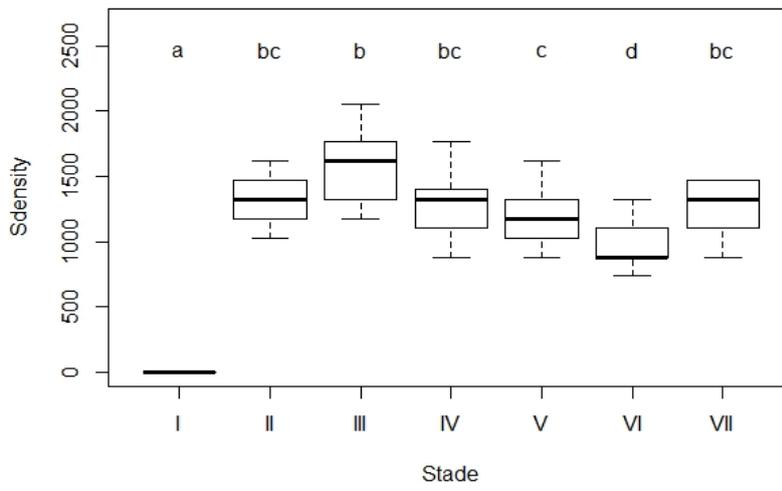
Stade	Scale density by development stage					
	I	II	III	IV	V	VI
II	< 0.0001***	-	-	-	-	-
III	< 0.0001***	0.29929	-	-	-	-
IV	< 0.0001***	0.92832	0.12971	-	-	-
V	< 0.0001***	0.63592	0.02914.	0.99983	-	-
VI	< 0.0001***	0.00101*	0.00018**	0.04857.	0.04220.	-
VII	< 0.0001***	0.91795	0.07528	0.99996	0.99557	0.01107.
Stade	Photophore density by development stage					
	I	II	III	IV	V	VI
II	-	-	-	-	-	-
III	< 0.0001***	< 0.0001***	-	-	-	-
IV	< 0.0001***	< 0.0001***	< 0.0001***	-	-	-
V	< 0.0001***	< 0.0001***	< 0.0001***	0.00173*	-	-
VI	< 0.0001***	< 0.0001***	< 0.0001***	< 0.0001***	< 0.0001***	-
VII	< 0.0001***	< 0.0001***	< 0.0001***	< 0.0001***	< 0.0001***	0.00018**
Stade	Relative scale length by development stage					
	I	II	III	IV	V	VI
II	< 0.0001***	-	-	-	-	-
III	< 0.0001***	1.00	-	-	-	-
IV	< 0.0001***	< 0.0001***	< 0.0001***	-	-	-
V	< 0.0001***	< 0.0001***	< 0.0001***	0.79	-	-
VI	< 0.0001***	< 0.0001***	< 0.0001***	0.96	1.00	-
VII	< 0.0001***	< 0.0001***	< 0.0001***	1.00	0.87	0.98

(c)

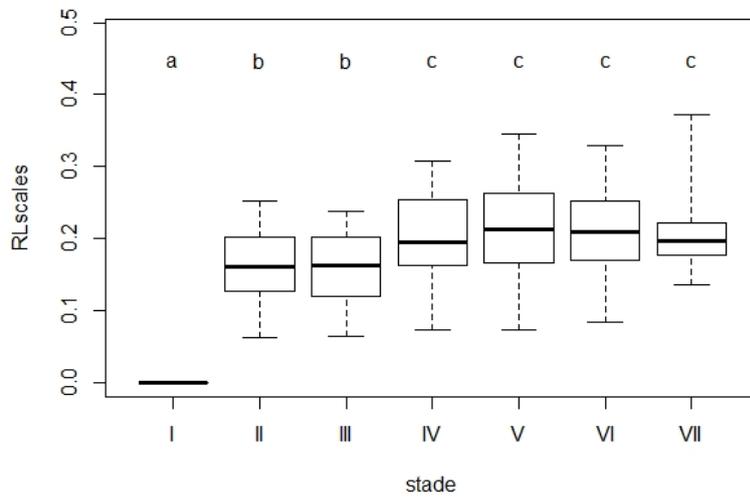
Dwass-Steale-Critchlow-Fligner all-pairs test



Dwass-Steale-Critchlow-Fligner all-pairs test



Dwass-Steale-Critchlow-Fligner all-pairs test



(d)

