

Table S1. Procrustes ANOVA of the shape variation for (a) *L. agilis* and (b) *Z. vivipara*.

(a)					
Effect	SS	MS	df	F	P (param.)
Individual	0.84334	0.000143	5876	12.15	<0.0001
Side	0.00426	0.000164	26	13.89	<0.0001
Ind * Side	0.06942	0.000011	5876	7.16	<0.0001
Error 1	0.01946	0.000001	11804		<0.0001
(b)					
Individual	0.53149	0.000119	4446	12.58	<0.0001
Side	0.00350	0.000134	26	14.20	<0.0001
Ind * Side	0.04223	0.000009	4446	7.89	<0.0001
Error 1	0.01077	0.000001	8944		<0.0001

Table S2. Descriptive statistics (Mean \pm SD.) for centroid size by gender and locality for (a) *L. agilis* and (b) *Z. vivipara*.

(a)		
Locality	Female	Male
Kukavica	24.3 \pm 3.51	25.1 \pm 3.24
Nebeske stolice	26.9 \pm 4.19	28.6 \pm 5.46
Treska	25.7 \pm 2.54	27.2 \pm 2.93
Bistra	28.0 \pm 3.99	28.2 \pm 3.99
Divčibare	27.3 \pm 2.67	30.8 \pm 2.01
(b)		
Gobelja	17.7 \pm 0.75	17.7 \pm 1.40
Karaman Greben	17.2 \pm 1.12	17.4 \pm 0.98
Kukavica	18.3 \pm 1.06	18.5 \pm 0.95
Nebeske stolice	17.2 \pm 0.79	17.9 \pm 0.94
Mokra Gora	16.8 \pm 1.56	16.4 \pm 2.54

Table S3. The values of Procrustes distances (PD) and p values obtained by discriminant analysis in comparisons between the localities (below the diagonal of the table are the values in females and above the diagonal are the values in males) in (a) *L. agilis* and (b) *Z. vivipara*. Statistically significant values are bold.

(a)					
Locality	Kukavica	Nebeske stolice	Treska	Bistra	Divčibare
Kukavica		0.025/ <0.0001	0.012/ <0.0001	0.029/ <0.0001	0.030/ <0.0001
Nebeske stolice	0.015/ 0.0260		0.026/ <0.0001	0.034/ <0.0001	0.021/ 0.0150
Treska	0.018/ 0.0190	0.016/ 0.0260		0.029/ <0.0001	0.032/ <0.0001
Bistra	0.021/ <0.0001	0.030/ <0.0001	0.028/ <0.0001		0.029/ <0.0001
Divčibare	0.021/ <0.0001	0.030/ <0.0001	0.035/ <0.0001	0.0284/ <0.0001	
(b)					
Locality	Gobelja	Karaman greben	Kukavica	Nebeske stolice	Mokra Gora
Gobelja		0.014/ 0.0200	0.023/ <0.0001	0.012/ 0.5320	0.031/ <0.0001
Karaman greben	0.007/ 0.8000		0.022/ 0.0030	0.016/ 0.1860	0.034/ 0.0050
Kukavica	0.014/ 0.1700	0.012/ 0.2640		0.023/ 0.0670	0.019/ 0.4960
Nebeske stolice	0.012/ 0.3290	0.009/ 0.5240	0.016/ 0.1440		0.031/ 0.0800
Mokra Gora	0.038/ <0.0001	0.041/ <0.0001	0.044/ <0.0001	0.043/ <0.0001	

Table S4. Correlation between FA scores, BCI and Pileus CS in: (a) *L. agilis* and (b) *Z. vivipara*

(a)			
	CS	BCI	FA
CS			
BCI	r=0.0777, p=0.365		
FA	r=0.1171, p=0.172	r=0.0949, p=0.268	
(b)			
	CS	BCI	FAa
CS			
BCI	r=-0.0031, p=0.972		
FA	r=0.0385, p=0.658	r=0.0056, p=0.949	