

Table S1. Summary of the detailed results of the Principal Component Analysis (PCA). PC = principal component.

PC	Eigenvalue	% variance
1	1,4247	82,986
2	0,177055	10,313
3	0,0271259	1,58
4	0,0183578	1,0693
5	0,0165643	0,96483
6	0,0127235	0,74112
7	0,010383	0,60479
8	0,00768568	0,44768
9	0,0065544	0,38178
10	0,00494278	0,28791
11	0,00436604	0,25431
12	0,00266704	0,15535
13	0,00257974	0,15026
14	0,00109524	0,063796

Table S2. Principal Component Analysis (PCA) loadings. PC 1–2 = principal component 1–2. Values in bold refer to lengthening of the body as mentioned in the text, which are the three largest values on PC1 and the second largest value on PC2. Abbreviations: AB = anal-fin base; AL = anal-fin length; BD = body depth; CPD = caudal-peduncle depth; CPL = caudal-peduncle length; DB = dorsal-fin base; DL = dorsal-fin length; HL = head length; IOD = interorbital width; OD = orbital diameter; PA = pre-anal distance; PV = pre-pelvic distance; SNL = snout length; UJL = upper jaw length; VL = pelvic-fin length.

PCA Loadings

	PC 1	PC 2
PV	0.40671	0.023622
PA	0.63506	-0.13342
DL	0.28368	0.20189
DB	0.14316	0.082418
VL	0.20238	-0.085115
AL	0.24402	0.18586
AB	0.20048	0.73836
CPL	0.31642	-0.57637
CPD	0.082424	0.052383
HL	0.22727	0.060948
OD	0.07001	0.017105
IOD	0.072443	0.049068
SNL	0.055629	-0.011304
UJL	0.13343	-0.075116

Table S3. Summary of the detailed results of the Linear Discriminant Analysis (LDA), Axis 1. PC = principal component. Abbreviations: AB = anal-fin base; AL = anal-fin length; BD = body depth; CPD = caudal-peduncle depth; CPL = caudal-peduncle length; DB = dorsal-fin base; DL = dorsal-fin length; HL = head length; IOD = interorbital width; OD = orbital diameter; PA = pre-anal distance; PV = pre-pelvic distance; SNL = snout length; UJL = upper jaw length; VL = pelvic-fin length.

Axis 1 – Eigenvalue: 6.4136 (100%)

	Axis 1
PV	-1.5085
PA	3.546
DL	-1.5774
DB	0.74345
VL	-0.046249
AL	-1.1826
AB	-3.3072
CPL	2.9469
CPD	-1.3739
HL	-0.50681
OD	2.1336
IOD	-3.8601
SNL	1.9621
UJL	0.91246

Table S4. Results of the reclassification of the Linear Discriminant Analysis (LDA): Corrected classified (jackknifed): 98.94%.

	<i>P. conwayi</i>	<i>P. phasma</i>	Total
<i>P. conwayi</i>	115	1	116
<i>P. phasma</i>	1	71	72
Total	116	72	188