

**Supplementary 4.** Coefficients of first and second principal components (PC1 and PC2), and the scaling of first and second principals of linear discriminants (LD1 and LD2) for the canonical variant analysis.

	PC1	PC2	LD1	LD2
HL	-0.254358	0.373174	-56.333963	-5.338738
TL	-0.0983508	0.069397	-9.178918	-17.621768
IL	0.028321	0.202827	29.786835	12.427388
DS2	0.233882	0.321230	-5.768863	-25.626886
DS3	0.063671	0.577950	21.674734	1.234424
HW	0.299257	-0.090487	7.495589	7.566010
HD	0.288237	0.116789	4.663802	-12.761444
SNL	0.364029	0.059254	21.906361	2.659793
SNW	0.287094	0.235207	-10.602504	1.039151
ISP	0.343690	-0.046319	-9.521765	5.206273
IF	0.349439	-0.043050	1.150214	-1.526520
PTSP	0.214933	0.070754	-20.805287	-3.616070
QPAL	0.337381	-0.194373	4.998152	-4.936334
OPSOP	0.261420	-0.254537	-68.616499	2.983867
Left pectoral-fin rays	0.099522	0.363912	-0.849257	-2.397671
Left pelvic-fin rays	0.000211	0.230008	1.695646	1.265916