Additional file 1. Two-way ANOVA of centroid size for the study sample.

Group	Effect	CENTROID SIZE				
		SS	**df**	**MS**	***F***	***P***
40St	Individual	127.298	85	1.498	65.65	< 0.001
	Side	0.007	1	0.007	0.32	0.572
	Individual × Side	1.939	85	0.023		
40Rb	Individual	113.187	76	1.489	56.17	< 0.001
	Side	0.044	1	0.044	1.65	0.202
	Individual × Side	2.015	76	0.027		
Rb(38-39)	Individual	133.830	83	1.612	87.76	< 0.001
	Side	0.001	1	0.001	0.03	0.867
	Individual × Side	1.525	83	0.018		
Rb(34-37)	Individual	159.221	104	1.531	59.65	< 0.001
	Side	0.026	1	0.026	1.01	0.318
	Individual × Side	2.669	104	0.026		
Rb(31-33)	Individual	299.450	156	1.920	73.88	< 0.001
	Side	0.194	1	0.194	7.46	0.007
	Individual × Side	4.053	156	0.026		
Rb(27-30)	Individual	195.212	104	1.877	83.52	< 0.001
	Side	0.023	1	0.023	1.02	0.315
	Individual × Side	2.337	104	0.022		

* SS, sum of squares; df, degrees of freedom; MS, mean squares; *F*, *F* statistic; *P*, *P*-value.

Additional file 1 (*continued*)**. Procrustes ANOVA of shape for the study sample.**

Group	Effect	SHAPE				
		SS	**df**	**MS**	***F***	***P***
40St	Individual	0.254	2550	9.956 × 10-5	6.04	< 0.001
	Side	0.002	30	6.382 × 10-5	3.87	< 0.001
	Individual × Side	0.042	2550	1.647 × 10-5		
40Rb	Individual	0.206	2280	9.020 × 10-5	5.77	< 0.001
	Side	0.001	30	4.124 × 10-5	2.64	< 0.001
	Individual × Side	0.036	2280	1.564 × 10-5		
Rb(38-39)	Individual	0.247	2490	9.901 × 10-5	5.56	< 0.001
	Side	0.001	30	4.260 × 10-5	2.39	< 0.001
	Individual × Side	0.044	2490	1.782 × 10-5		
Rb(34-37)	Individual	0.323	3120	1.034 × 10-4	6.03	< 0.001
	Side	0.002	30	4.977 × 10-5	2.90	< 0.001
	Individual × Side	0.054	3120	1.714 × 10-5		
Rb(31-33)	Individual	0.490	4680	1.046 × 10-4	7.41	< 0.001
	Side	0.002	30	7.071 × 10-5	5.01	< 0.001
	Individual × Side	0.066	4680	1.412 × 10-5		
Rb(27-30)	Individual	0.341	3120	1.092 × 10-4	6.00	< 0.001
	Side	0.001	30	2.782 × 10-5	1.53	0.033
	Individual × Side	0.057	3120	1.820 × 10-5		

* SS, sum of squares; df, degrees of freedom; MS, mean squares; *F*, *F* statistic; *P*, *P*-value.