

Table S3.

A) Post hoc Tukey test for mean Acrosome length between all pair comparisons from northern localities: 1=Iquique, 2=Antofagasta, 3=Tumbes, 4=Lota; Adj p is the adjusted p value.

Effect	NLOC	NLOC	Estimate	StdErr	DF	tValue	Probt	Adjustment	Adj p	Alpha	Lower	Upper	AdjLower	AdjUpper
NLOC	1	2	0.000182667	0.025999937	115	0.01	0.9944	Tukey-Kramer	1.0000	0.05	-0.051318205	0.051683539	-0.067599064	0.067964398
NLOC	1	3	0.019859579	0.023268953	115	0.85	0.3952	Tukey-Kramer	0.8286	0.05	-0.026231739	0.065950897	-0.040802487	0.080521645
NLOC	1	4	-0.086856826	0.02337474	115	-3.72	0.0003	Tukey-Kramer	0.0018	0.05	-0.133157687	-0.040555964	-0.147794677	-0.025918974
NLOC	2	3	0.019676912	0.021037779	115	0.94	0.3516	Tukey-Kramer	0.7859	0.05	-0.021994879	0.061348703	-0.035168492	0.074522316
NLOC	2	4	-0.087039493	0.020987093	115	-4.15	0.0001	Tukey-Kramer	0.0004	0.05	-0.128610885	-0.045468101	-0.141752758	-0.032326227
NLOC	3	4	-0.106716405	0.020447704	115	-5.22	0.0000	Tukey-Kramer	0.0000	0.05	-0.14721937	-0.066213439	-0.160023484	-0.053409325

B) Least square means of Acrosome length between from northern localities. Sample codes in Table 1

Effect	NLOC	Estimate	StdErr	DF	tValue	Probt	Alpha	Lower	Upper
NLOC	1	1.081168985	0.017368117	115	62.25	0.0000	0.05	1.046766088	1.116
NLOC	2	1.080986318	0.015825845	115	68.31	0.0000	0.05	1.049638365	1.112
NLOC	3	1.061309406	0.014533818	115	73.02	0.0000	0.05	1.03252071	1.09
NLOC	4	1.168025811	0.014557916	115	80.23	0.0000	0.05	1.139189381	1.197