

**Table S1.** P value of population parameters of *L. serricornis* detected a paired bootstrap test between two temperatures

Population parameter	P (21/24°C)	P (21/27°C)	P (21/30°C)	P (21/33°C)	P (24/27°C)	P (24/30°C)	P (24/33°C)	P (27/30°C)	P (27/33°C)	P (30/33°C)
Developmental time of egg (days)	0	0	0	0	0	0	0	0	0	0
Developmental time of larva (days)	0	0	0	0	0	0	0	0	0	0.03
Developmental time of pupa (days)	0	0	0	0	0	0	0	0	0	0.23
Adult longevity (days)	0	0	0	0	0	0	0	0	0	0.00033
Total longevity of female individuals (days)	0	0	0	0	0	0	0	0	0	0.00665
Total Longevity of male individuals (days)	0	0	0	0	0	0	0	0	0	0.015720
Total preoviposition period (TPOp) (days)	0	0	0	0	0	0	0	0	0	0.00248
Adult preoviposition period (APOp) (days)	0	0	0	0	0	0	0	0.54849	0.01214	0.03338
Oviposition days ( $O_d$ )	0	0.00535	0	0	0.00196	0.75312	0.61484	0.00205	0.00002	0.37408
Fecundity (no. of eggs)	0.00029	0.03407	0	0	0.1005	0.00298	0.00016	0.00002	0.00001	0.23512

**Table S2.** P value of population parameters of *L. serricornis* detected a paired bootstrap test between two temperatures

[illegible]