

**Table S2.** Between-group variation of log10-normalized advertisement call parameters in males with and without mating success. Groups were compared using an ANCOVA with temperature as a covariate. Data are given as least square means and corresponding standard error.

Bioacoustic parameter	Successful males (N=11, 50 calls)	Unsuccessful males (N=35, 155 calls)	Significance P
Call duration [ms]	3.5914±0.0248	3.5734±0.0137	0.5322
Number of pulse groups per call	1.7517±0.0238	1.7704±0.0132	0.5011
Repetition rate of pulse groups [n per s]	1.1603±0.0047	1.1970±0.0026	<b>&lt;0.00001</b>
Pulse group duration [ms]			
2 pulses per pulse group	1.3685±0.0126	1.3490±0.0072	0.1928
3 pulses per pulse group	1.4526±0.0069	1.4191±0.0040	<b>&lt;0.00001</b>
4 pulses per pulse group	1.5057±0.0062	1.4748±0.0039	<b>0.0001</b>
5 pulses per pulse group	1.5677±0.0065	1.5221±0.0070	<b>0.0009</b>
Interpulse group intervals [ms]			
2 pulses per pulse group	1.6194±0.0107	1.5667±0.0061	<b>&lt;0.00001</b>
3 pulses per pulse group	1.5728±0.0090	1.5684±0.0052	0.6761
4 pulses per pulse group	1.6640±0.0092	1.6005±0.0054	<b>0.0001</b>
5 pulses per pulse group	1.6487±0.0101	1.6792±0.0124	0.1323
Number of pulses per call	2.2428±0.0276	2.2661±0.0153	0.4681
Pulse rate [n per s]	1.6514±0.0096	1.6928±0.0053	<b>0.0003</b>
Dominant frequency [Hz]	3.1250±0.0050	3.1122±0.0027	<b>0.0282</b>