

**Table S2.** Repeatability of the measurements and of the mean based on the LMM.REML method for Gaussian data ([27]; R package rptR). Coefficients of variation, CV, for sperm traits were calculated as follows: (i) intermale CV using n=46 males with at least 5 sperm each ([28]), and (ii) intramale CV using n=10 males with 50 sperm each ([29]).

	Repeatability of the measurement			Repeatability of the mean	Intermale CV	Intramale CV
	R	C.I.	p	r		
<b>Head Length</b>	0.68	0.57-0.75	<0.0001	0.94	4.1	2.3
<b>Flagellum Length</b>	0.65	0.53-0.73	<0.001	0.93	2.3	1.4
<b>(Straight) Midpiece Length</b>	0.54	0.41-0.64	<0.0001	0.90	3.5	3.3
<b>Total Length</b>	0.68	0.57-0.76	<0.0001	0.94	2.1	1.1
<b>Flagellum:Head ratio</b>	0.61	0.48-0.70	<0.0001	0.92	4.5	3.0
<b>Midpiece:Flagellum ratio</b>	0.55	0.43-0.65	<0.0001	0.90	3.7	3.2

## References

- [27] Nakagawa S, Schielzeth H (2010) Repeatability for Gaussian and non-Gaussian data: a practical guide for biologists. *Biol Rev* 85: 935–956.
- [28] Calhim S, Immler S, Birkhead TR, Pizzari T (2007) Postcopulatory Sexual Selection Is Associated with Reduced Variation in Sperm Morphology. *PLoS ONE* 2: e413.
- [29] Immler S, Calhim S, Birkhead TR (2008) Increased postcopulatory sexual selection reduces the intramale variation in sperm design. *Evolution* 62: 1538–1543.