

**Supplementary table 1 – Sperm parameters of the donors participating in this study.**

<b>Parameter</b>	<b>Mean <math>\pm</math> ESM</b>	<b>Median (range)</b>
Volume (ml)	2.9 $\pm$ 0.4	2.5 (0.8-8)
Sperm concentration ( $10^6$ cells/ml)	232.7 $\pm$ 47.6	193.5 (15.6-829.8)
Total sperm count	609.6 $\pm$ 114.2	514.4 (93.9-2074.5)
Progressive motility	67 $\pm$ 3	65 (41-91)
Total motility	79 $\pm$ 3	77 (54-96)
Distance curved line (DCL; $\mu\text{m}$ )	31.6 $\pm$ 0.9	31.8 (22.1-38.5)
Distance average path (DAP; $\mu\text{m}$ )	21.8 $\pm$ 0.5	21.5 (16.6-28.5)
Distance straight line (DSL; $\mu\text{m}$ )	17.2 $\pm$ 0.6	17.0 (12.2-25)
Curvilinear velocity (VCL; $\mu\text{m}/\text{sec}$ )	71.2 $\pm$ 2.2	72.0 (51.1-88.2)
Average path velocity (VAP; $\mu\text{m}/\text{sec}$ )	50.5 $\pm$ 1.7	49.2 (38.4-74.7)
Straight-line velocity (VSL; $\mu\text{m}/\text{sec}$ )	38.9 $\pm$ 1.3	38.5 (29.6-55.7)
Linearity (LIN; VSL/VCL)	0.5 $\pm$ 0	0.5 (0.4-0.7)
Straightness (STR; VSL/VAP)	0.8 $\pm$ 0	0.8 (0.6-0.9)
Wobble (WOB; VAP/VCL)	0.7 $\pm$ 0	0.7 (0.6-0.8)
Beat cross frequency BCF (hertz)	26.7 $\pm$ 0.5	26.4 (24.1-32.1)
Amplitude of lateral head displacement ALH ( $\mu\text{m}$ )	2.1 $\pm$ 0.1	2.0 (1.5-2.7)
Average orientation change of the head (AOC; $^\circ$ )	22.9 $\pm$ 0.9	22.5 (15.5-31.9)

N=21