

## Supplementary materials

**Supplementary Table S1.** Comparison of sperm motility parameters before and after cryopreservation.

Groups	TM (%)	PM (%)	VAP ( $\mu\text{m/s}$ )	VSL ( $\mu\text{m/s}$ )	VCL ( $\mu\text{m/s}$ )	LIN (%)	ALH ( $\mu\text{m}$ )	STR (%)
FP	85.02 $\pm$ 0.82 <sup>A</sup>	73.42 $\pm$ 0.56 <sup>A</sup>	60.01 $\pm$ 0.65 <sup>A</sup>	51.50 $\pm$ 0.46 <sup>A</sup>	114.80 $\pm$ 1.85 <sup>A</sup>	44.93 $\pm$ 0.42 <sup>A</sup>	1.01 $\pm$ 0.03 <sup>A</sup>	85.87 $\pm$ 0.85 <sup>A</sup>
CP	48.87 $\pm$ 1.22 <sup>B</sup>	36.33 $\pm$ 1.53 <sup>B</sup>	30.12 $\pm$ 1.09 <sup>B</sup>	21.41 $\pm$ 0.71 <sup>B</sup>	56.88 $\pm$ 1.22 <sup>B</sup>	37.69 $\pm$ 0.66 <sup>B</sup>	0.74 $\pm$ 0.03 <sup>B</sup>	71.22 $\pm$ 1.08 <sup>B</sup>

Data presented as mean  $\pm$  SEM (Standard error of mean). Different superscript lowercase letters indicate significant differences ( $p < 0.05$ ), whereas different superscript uppercase letters indicates extremely significant differences ( $p < 0.001$ ), the same superscript lowercase letter indicates that the difference is not significant ( $p > 0.05$ ).