



Figure S1. The morphology of fresh and post-thaw sperm. (A) Morphology of fresh sperm. (B–D) Morphology of post-thaw sperm. The sperm was dyed by sperm morphology rapid staining solution (Solarbio, Beijing, CHN). Abnormal head, indicated by blue arrowhead; broken tail, indicated by red arrowhead. Scale bar = 20 μm .