[additional file 8] Compared to cryopreservation of single cell suspension, the approach of whole testis tissue cryopreservation is more challenging; this is because tissue requires longer exposure to cryoprotectants and this can result in higher cellular toxicity before freezing [135]. However, the cryopreservation of the whole testis tissue is recognized as promising, at least in human regenerative medicine. In this approach, the SSCs purified from the thawed tissue and propagated subsequently *in vitro* [198]. Readers interested in this approach should refer the very recent review [199].

**References for the additional file 8**

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