

Preservation of zebrafish genetic resources through testis cryopreservation and spermatogonia transplantation

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Supplement 1. Kinematic properties of spermatozoa obtained from wild type AB (AB), β -actin [Tg(*actb::eGFP*)] (Actb) zebrafish as well as from recipients of fresh (REC_F), slow-rate frozen (REC_{SR}) and vitrified (REC_V) spermatogonia.

	tMOT (%)	pMOT (%)	VCL ($\mu\text{m/s}$)	VAP ($\mu\text{m/s}$)	VSL ($\mu\text{m/s}$)	STR (%)	LIN (%)	WOB (%)	ALH (μm)	BCF (Hz)
AB control	79.2 $\pm$ 16.4	57.3 $\pm$ 22.2	76.0 $\pm$ 12.9	66.9 $\pm$ 12.4	56.9 $\pm$ 10.2	0.84 $\pm$ 0.03	0.74 $\pm$ 0.04	0.87 $\pm$ 0.02	1.4 $\pm$ 0.2	27.9 $\pm$ 1.9
Actb control	80.4 $\pm$ 13.5	60.1 $\pm$ 13.5	76.1 $\pm$ 12.8	67.8 $\pm$ 13.7	57.5 $\pm$ 13.0	0.84 $\pm$ 0.04	0.74 $\pm$ 0.07	0.88 $\pm$ 0.04	1.4 $\pm$ 0.3	27.2 $\pm$ 2.2
REC _F	77.4 $\pm$ 6.9	56.7 $\pm$ 7.5	73.0 $\pm$ 7.7	66.4 $\pm$ 8.2	55.2 $\pm$ 8.2	0.82 $\pm$ 0.04	0.75 $\pm$ 0.05	0.90 $\pm$ 0.02	1.2 $\pm$ 0.2	29.6 $\pm$ 3.1
REC _{SR}	72.6 $\pm$ 20.7	48.1 $\pm$ 15.0	69.0 $\pm$ 8.9	60.2 $\pm$ 8.8	48.5 $\pm$ 9.0	0.79 $\pm$ 0.04	0.69 $\pm$ 0.05	0.86 $\pm$ 0.02	1.4 $\pm$ 0.2	28.9 $\pm$ 2.5
REC _V	84.5 $\pm$ 9.1	58.3 $\pm$ 16.3	73.5 $\pm$ 8.9	64.4 $\pm$ 7.6	54.2 $\pm$ 7.5	0.84 $\pm$ 0.04	0.73 $\pm$ 0.08	0.87 $\pm$ 0.02	1.5 $\pm$ 0.2	27.7 $\pm$ 2.9

tMOT – total motility; pMOT – progressive motility; VCL – curvilinear velocity; VAP – average path velocity; VSL – straight-line velocity; STR – straightness; LIN – linearity; WOB – wobble; ALH – lateral head displacement; BCF – frequency of head displacement.

Supplementary information: Full-length gel

