

Supporting Information 2 – Model selection using values of ΔAIC (Akaike weights). k: Number of parameters of the model. The estimated best fitting model is shaded in grey.

Model	k	Size at birth		Growth rate		Time to sexual maturation	
		F1	F2	F1	F2	F1	F2
Single-mean	1	185.9 (<0.001)	88.1 (<0.001)	124.9 (<0.001)	191.1 (<0.001)	92.80 (<0.001)	75.27 (<0.001)
Fixed-effect (treatment)	2	187.0 (<0.001)	88.9 (<0.001)	121.0 (<0.001)	192.1 (<0.001)	94.00 (<0.001)	71.64 (<0.001)
Random-effect (tank)	3	0.0 (0.680)	0.0 (0.723)	0.0 (0.639)	0.0 (0.731)	0.0 (0.731)	0.0 (0.580)
Mixed-effect (treatment, tank)	4	1.5 (0.320)	1.9 (0.277)	1.1 (0.361)	2.0 (0.269)	2.0 (0.269)	0.633 (0.421)