

Table S2: ANOVAs for the effects of Wolbachia infection and inversions on anoxia tolerance

Analysis	Covariates	Df	SS	RSS	AIC	F	P
Female	none			12.7010	-420.6000		
	factor(wolbachia)	1	0.0327	12.7340	-422.1600	0.4094	0.5232
	factor(In_2L_t)	2	0.1788	12.8800	-422.2100	1.1193	0.3291
	factor(In_2R_NS)	2	0.7344	13.4350	-414.9900	4.5968	0.0115 *
	factor(In_3R_P)	2	0.1523	12.8530	-422.5600	0.9531	0.3877
	factor(In_3R_K)	2	0.1931	12.8940	-422.0200	1.2088	0.3013
	factor(In_3R_Mo)	2	0.1431	12.8440	-422.6800	0.8954	0.4105
Male	none			8.4151	-490.9900		
	factor(wolbachia)	1	0.0346	8.4498	-492.2900	0.6545	0.4197
	factor(In_2L_t)	2	0.0113	8.4264	-494.7600	0.1064	0.8991
	factor(In_2R_NS)	2	0.7265	9.1416	-480.8300	6.8631	0.0014 **
	factor(In_3R_P)	2	0.0438	8.4590	-494.1000	0.4140	0.6617
	factor(In_3R_K)	2	0.1615	8.5766	-491.7400	1.5253	0.2207
	factor(In_3R_Mo)	2	0.0865	8.5016	-493.2400	0.8169	0.4437
Average	none			9.5861	-468.7100		
	factor(wolbachia)	1	0.0337	9.6198	-470.1100	0.5583	0.4560
	factor(In_2L_t)	2	0.0573	9.6434	-471.6900	0.4751	0.6227
	factor(In_2R_NS)	2	0.7288	10.3149	-460.1800	6.0438	0.0030 **
	factor(In_3R_P)	2	0.0885	9.6747	-471.1400	0.7342	0.4815
	factor(In_3R_K)	2	0.1755	9.7616	-469.6100	1.4551	0.2365
	factor(In_3R_Mo)	2	0.1107	9.6968	-470.7500	0.9178	0.4015
Difference	none			3.8877	-623.0400		
	factor(wolbachia)	1	0.0000	3.8877	-625.0400	0.0011	0.9731
	factor(In_2L_t)	2	0.1510	4.0387	-620.5200	3.0885	0.0483 *
	factor(In_2R_NS)	2	0.0067	3.8944	-626.7400	0.1365	0.8725
	factor(In_3R_P)	2	0.0380	3.9257	-625.3700	0.7780	0.4611
	factor(In_3R_K)	2	0.0073	3.8950	-626.7200	0.1492	0.8615
	factor(In_3R_Mo)	2	0.0163	3.9040	-626.3200	0.3341	0.7165
Larvae	none			3.6928	-622.1800		
	factor(wolbachia)	1	0.0124	3.7052	-623.6100	0.5268	0.4690
	factor(In_2L_t)	2	0.0365	3.7293	-624.5100	0.7758	0.4621
	factor(In_2R_NS)	2	0.0742	3.7670	-622.8100	1.5778	0.2097
	factor(In_3R_P)	2	0.0523	3.7450	-623.8000	1.1109	0.3318
	factor(In_3R_K)	2	0.0931	3.7859	-621.9700	1.9792	0.1416
	factor(In_3R_Mo)	2	0.0280	3.7207	-624.9000	0.5943	0.5532

Significance at $p < 0.001$ ***, $p < 0.01$ ** , $p < 0.05$ *