

Supplementary material

Appendix 1

Table A1 Overview of all fitted full models. Non-significant effects were sequentially removed to obtain parameter estimates. Terms included in final models are underlined.

Model identity	Statistical model	Response variable	Explanatory variables
1	LMM	ROM	<u>size</u> <u>sex</u> <u>size*sex</u>
2	LMM	ROM	<u>mass</u> <u>sex</u> <u>mass*sex</u>
3	LMM	OXY	<u>size</u> <u>sex</u> <u>size*sex</u>
4	LMM	OXY	<u>mass</u> <u>sex</u> <u>mass*sex</u>
5	LMM	ROM	<u>matching</u> <u>sex</u> <u>treatment</u> <u>size</u>
6	LMM	OXY	<u>matching</u> <u>sex</u> <u>treatment</u>
7	LMM	size	<u>matching</u> <u>sex</u> <u>treatment</u>
8	LMM	mass	<u>matching</u> <u>sex</u> <u>treatment</u>
9	LMM	ROM	within matching/mismatching: <u>sex</u> <u>treatment</u> <u>sex*treatment</u> <u>size</u>
10	LMM	OXY	within matching/mismatching: <u>sex</u> <u>treatment</u> <u>sex*treatment</u>
11	LMM	size	within matching/mismatching: <u>sex</u> <u>treatment</u> <u>sex*treatment</u>
12	LMM	mass	within matching/mismatching: <u>sex</u> <u>treatment</u> <u>sex*treatment</u>
13	GLMM	Survival	within matching/mismatching: <u>sex</u> <u>treatment</u> <u>sex*treatment</u> <u>mass</u> <u>date</u> <u>mass*date</u>
14	GLMM	Survival	ROM OXY <u>sex</u> ROM* <u>sex</u> OXY* <u>sex</u> <u>mass</u> <u>date</u> <u>mass*date</u>
15	GLM	Sex ratio	within nest of origin: <u>treatment</u>
16	GLM	Sex ratio	within nest of rearing: <u>treatment</u>

LMM: general linear mixed model

GLMM: generalized linear mixed model

GLM: generalized linear model