Supplementary material for White TE. Structural colours reflect individual quality: a meta-analysis.
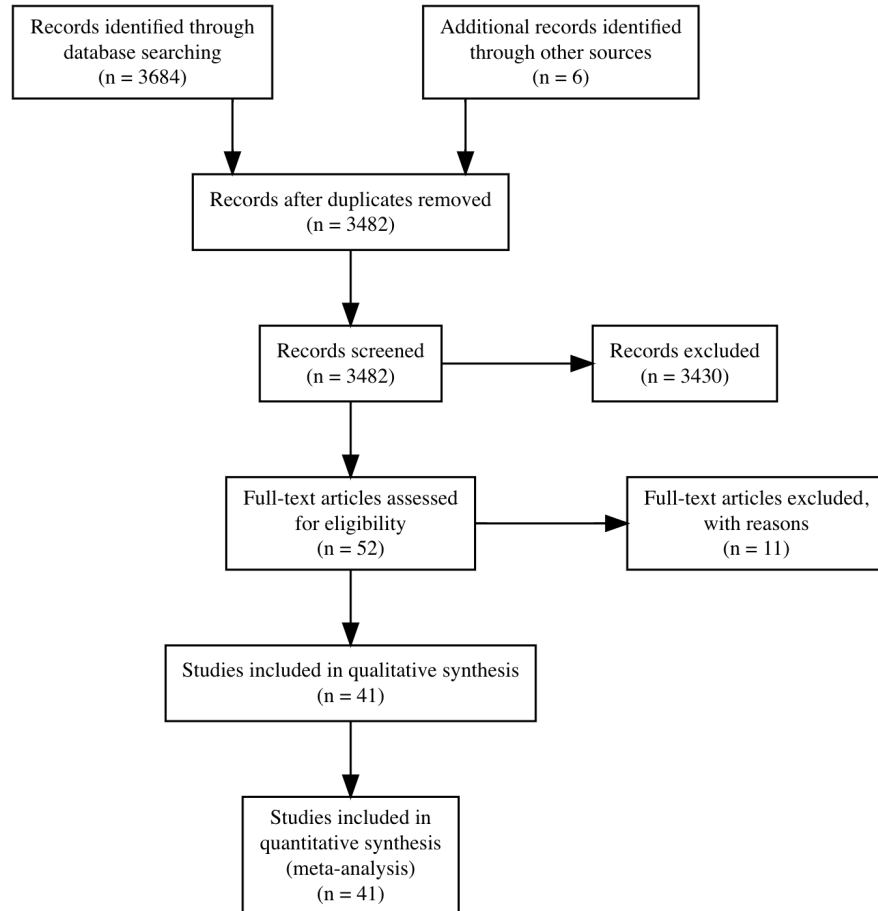

Figure 1: PRISMA diagram depicting the systematic search strategy for literature testing the relationship between the expression of structural colour signals and individual quality.
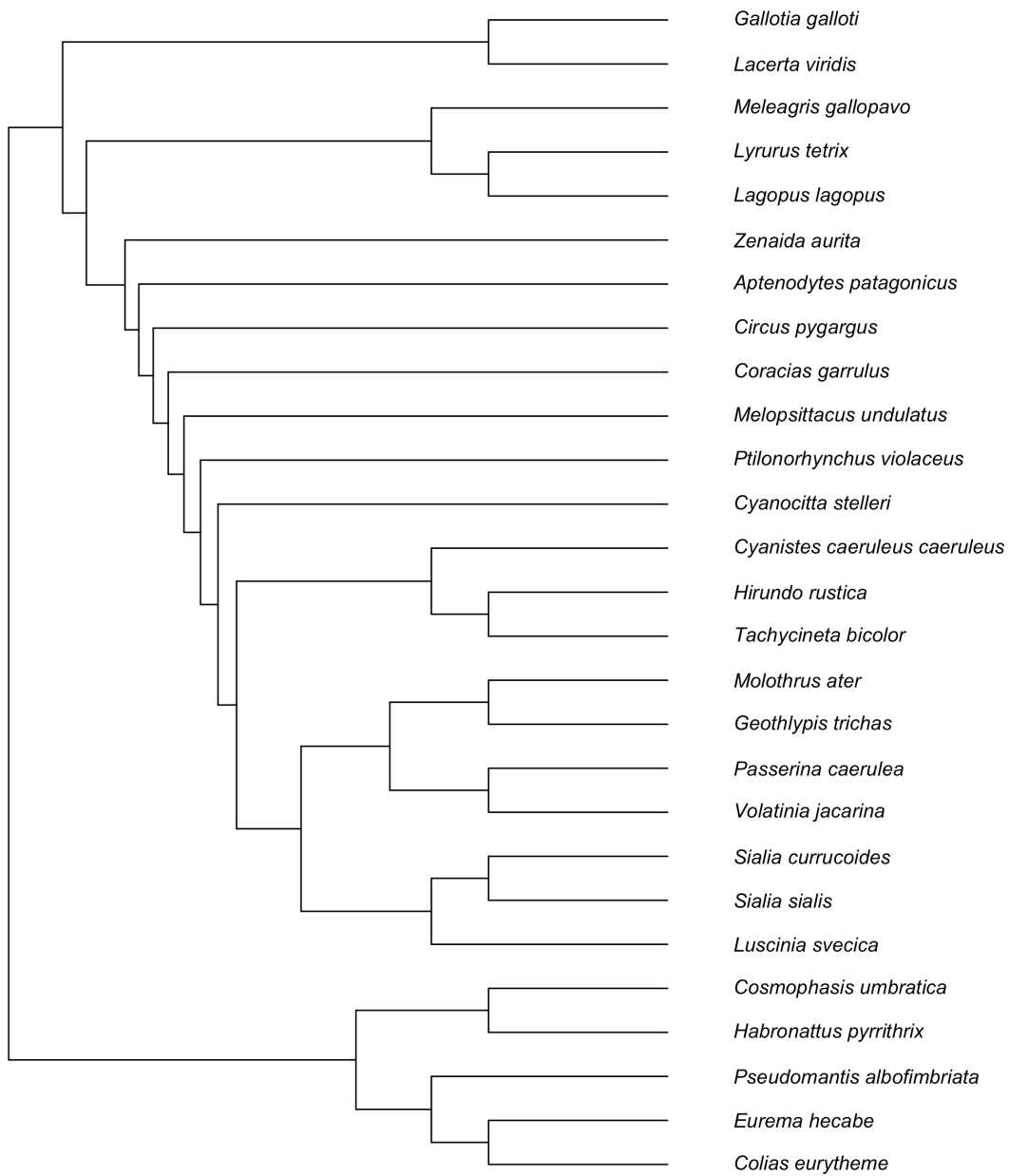
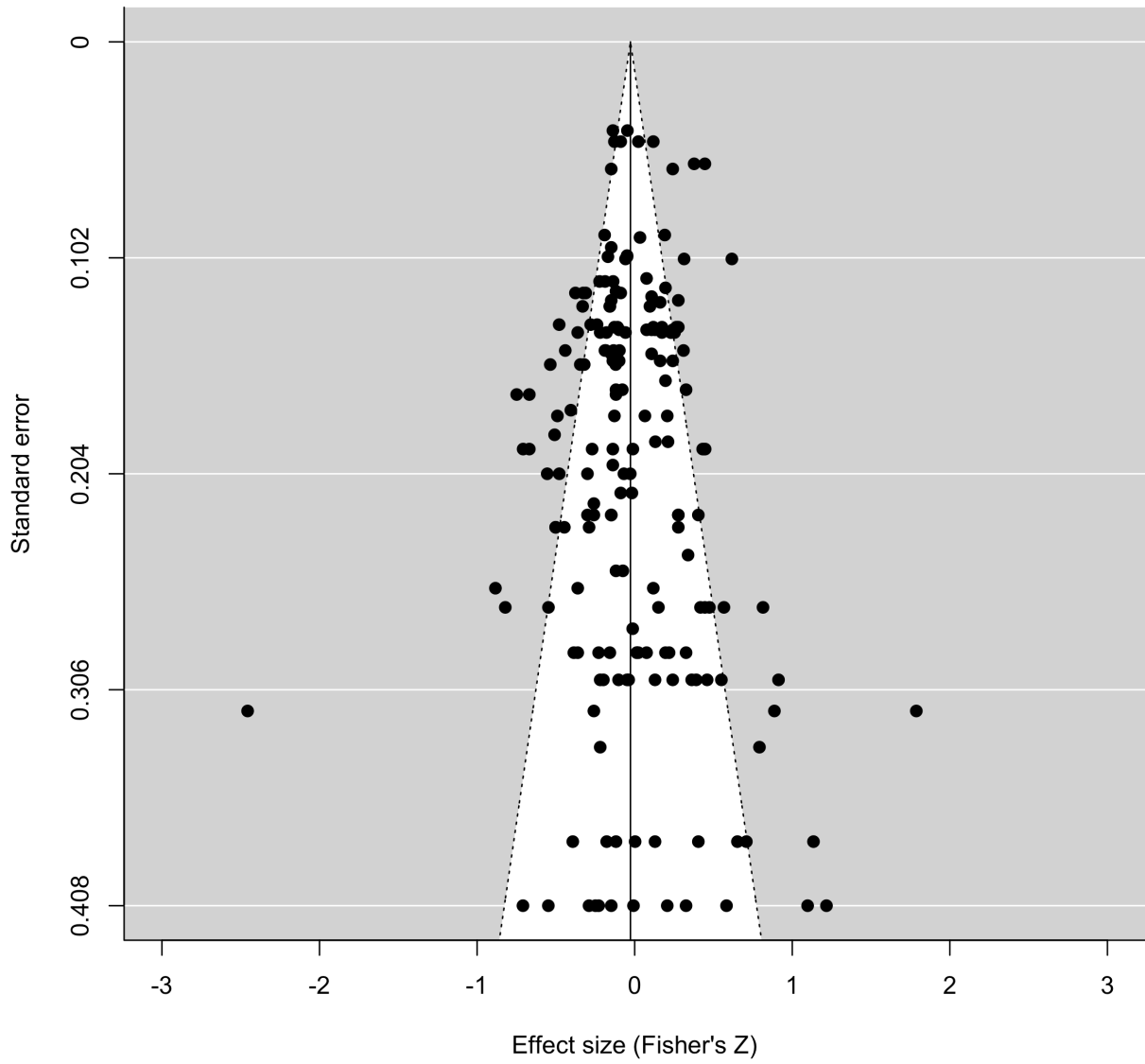Figure 2: Phylogenetic tree of the taxa included in this study.

Figure 3: Funnel plots of effect sizes against their standard error, with 95% pseudo confidence interval denoted by dashed lines.

Table S1: Full parameter estimates from MLM and MLMR models of the mediators of the correlation between structural colour signal expression and individual quality. Shown are sample sizes, mean Fisher's z values and lower and upper 95% confidence intervals, and heterogeneity.

Model	n	Mean (Zr)	Lower CI	Upper CI	I^2 (%)
Overall (intercept-only)	184	**0.159**	**0.087**	**0.232**	81.24
Quality measure					80.60
age	37	0.017	-0.118	0.152	
body condition	103	**0.191**	**0.099**	**0.284**	
immune function	11	**0.356**	**0.126**	**0.587**	
parasite resistance	34	0.122	-0.026	0.266	
Component					81.59
achromatic	59	**0.172**	**0.071**	**0.273**	
chromatic	106	**0.154**	**0.066**	**0.242**	
combined	20	0.150	-0.033	0.333	
Sex					81.53
female	29	0.121	-0.014	0.257	
male	147	**0.170**	**0.093**	**0.247**	
combined	9	0.125	-0.131	0.381	
Optics					83.26
iridescent	67	**0.156**	**0.013**	**0.299**	
Study type					81.40
experimental	53	**0.221**	**0.109**	**0.334**	
observational	132	**0.129**	**0.058**	**0.200**	
Control					
included	28	0.120	-0.09	0.328	83.87