

Experiment	Variable analysed	models	Fixed factors in the model	Comparisons of the models
Geraniol	Feeding duration	Modelfull	Flower*setup*position*day	<i>F</i> test: $\chi^2=13.59$, $p=0.48$ (vs the bestmodel), $\chi^2=31.24$, $p<0.01$ (vs the modelnull)
		modelbest	flower	<i>F</i> test: $\chi^2=17.64$, $p<0.001$ (vs the modelnull)
		modelnull	None	
	Flower preference	Modelfull	Flower+position	AIC=513.96
		Modelbest	Flower	AIC=512.52
		Modelnull	None	AIC=630.26
	Proportion of rewarding flower visitation	Modelfull	setup*position*day	AIC=372.34
		modelbest	day+position	AIC=364.90
		modelsetup	setup	AIC=369.60
		modelnull	None	AIC=368.45
	Switch of flower after landing	Modelfull	Flower*setup*position*day	AIC=149.34
		modelbest	flower	AIC=127.51
		modelnull	None	AIC=144.66
	Switch of flower after feeding	Modelfull	Flower*setup*position*day	AIC=158.83
		modelbest	flower	AIC=139.44
		modelnull	None	AIC=183.70
<i>C. bomby</i>	Feeding duration	Modelfull	Flower*setup*position*day	<i>F</i> test: $\chi^2=21.09$, $p=0.10$ (vs the bestmodel), $\chi^2=50.87$, $p<0.001$ (vs the modelnull)
		modelbest	Flower	<i>F</i> test: $\chi^2=29.79$, $p<0.001$ (vs the modelnull)
		modelnull	None	
	Flower preference	Modelfull	Flower+position	AIC=1093.79
		modelbest	Flower	AIC=1093.22
		modelnull	None	AIC=1105.13
	Proportion of rewarding flower visitation	Modelfull	setup*position*day	AIC=1115.76
		modelbest	day+position	AIC=1108.95
		modelsetup	setup	AIC=1113.54
		modelnull	None	AIC=368.45
	Switch of flower after landing	Modelfull	Flower*setup*position*day	AIC=513.54
		modelbest	flower	AIC=493.74
		Modelnull	None	AIC=496.17

	Switch of flower after feeding	Modelfull modelbest modelnull	Flower*setup*position*day flower None	AIC=480.86 AIC=471.36 AIC=493.55
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Table S1: Results of the GLMM for all the experiments. Modelfull represents the model including all the explanatory factors, modelbest is the model fitting the best the data, modelnull is the model including no explanatory factor. The comparison of models for the visit duration was tested using F-tests, while the Akaike Information Criterion (AIC) was used for the other models. The lower AIC is, the best the model is. * represents the interactions between fixed factors.