

Supplemental Material 1

Diagnostic and posterior summary statistics of the estimated parameters of the Bayesian Linear Mixed-effects Models used in the Results section.

Parameter	\hat{R}	Mean \mathbb{E}	SD \mathbb{E}	2.5% CI	97.5% CI
Lever-pressing rate					
Intercept (μ_{W15})	1.01	32.79	3.88	25.05	40.49
Slope NW (μ_{NW})	1.01	4.98	3.94	-2.62	12.94
Slope FI 30 (μ_{30})	1.01	-3.66	4.68	-13.11	5.34
Slope FI 60 (μ_{60})	1	-1.52	4.4	-10.52	6.99
Spout-licking rate					
Intercept (μ_{W15})	1	102.22	19.71	63.71	139.55
Slope FI 30 (μ_{30})	1	-50.56	30.32	-108.74	8.9
Slope FI 60 (μ_{60})	1	-58.02	27.96	-112.99	-0.73
Post-reinforcement pause					
Intercept (μ_{W15})	1	10.34	1.36	7.73	13.2
Slope NW (μ_{NW})	1	-2.46	1.41	-5.26	0.28
Slope FI 30 (μ_{30})	1.01	6.88	1.82	3.28	10.4
Slope FI 60 (μ_{60})	1.01	19.19	1.67	15.95	22.5
Breakpoint					
Intercept (μ_{W15})	1.01	10.83	0.59	9.66	11.98
Slope NW (μ_{NW})	1	-0.32	0.59	-1.46	0.83
Slope FI 30 (μ_{30})	1.01	9.94	0.8	8.37	11.54
Slope FI 60 (μ_{60})	1	28.36	0.72	26.96	29.83
Time of last lick					
Intercept (μ_{W15})	1	10.86	2.12	6.61	15.15
Slope W30 (μ_{30})	1	1.37	3.27	-4.9	7.97
Slope W60 (μ_{60})	1	10.31	3.08	4.2	16.35
Peak of licks					
Intercept (μ_{W15})	1	6.66	1.4	3.87	9.42
Slope W30 (μ_{30})	1	2.08	2.23	-2.41	6.4
Slope W60 (μ_{60})	1	5.09	2	1.06	9.06

Note. \mathbb{E} = Estimated value. SD = Standard Error. CI = Credible Interval.

Equation for the best-fitting model for each analysis and the details of their simulations.

Analysis	Equation of best-fitting model	BF ₁₀	Number of chains	Total iterations	Warm-up iteration	Total samples post warm-up
Lever-pressing rate (LP)	LP ~ Group + FI + (1 Subject) + (1 Session)	1.51e ⁺⁰⁴	4	2000	1000	4000
Licking rate	Licks ~ FI + (1 Subject)	6.91e ⁺⁰⁴	4	3000	1500	6000
Post-reinforcement pause (PRP)	PRP ~ Group + FI + (1 Subject)	.5636e ⁺¹⁶	4	3000	1000	8000
Breakpoint (BP)	BP ~ Group + FI + (1 Subject)	1.9668e ⁺³⁵	4	3200	1600	6400
Time of last lick (LL)	LL ~ FI + (1 Subject)	2.27e ⁺⁰⁴	4	3000	1500	6000
Peak of licks	Peak ~ FI + (1 Subject)	674.51	4	2000	1000	4000

Note. BF₁₀ = Bayes factor of best-fitting model vs. null model. Group: W or NW. FI = Fixed-interval value. Random intercepts in brms-*R* nomenclature (e.g. random intercepts per *Subject* = (1 | *Subject*)).