

Table. S1. Individual choices in the **colour condition** for each bee and trial number. “1” indicates correct choice and “0” indicates incorrect choice. The mean of columns (A) represents the mean proportion of correct choices per trial, while the mean of rows (B) represents the mean proportion of correct choices per bee

Bee	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Mean(A)
<i>Trial</i>																	
1	0	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	0.75
2	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	0	0.31
3	0	0	1	0	1	0	1	1	0	0	0	0	1	0	1	1	0.44
4	0	1	0	0	0	1	0	0	1	0	0	1	0	1	0	1	0.38
5	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	0	0.69
6	0	1	1	1	0	0	1	0	1	0	0	0	1	1	1	0	0.50
7	1	0	0	1	1	1	1	1	0	1	0	0	1	1	1	0	0.63
8	1	1	0	1	0	1	0	1	1	1	0	1	0	0	0	1	0.56
9	0	0	0	0	0	1	1	1	1	0	1	1	1	1	0	0	0.50
10	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	0.75
11	1	0	1	0	1	1	1	0	1	0	1	1	0	1	0	1	0.63
12	0	0	1	1	1	0	0	1	1	0	0	1	0	1	0	0	0.44
13	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	0.69
14	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0.25
15	1	0	1	1	1	0	1	1	0	1	1	1	1	1	1	0	0.75
16	1	1	1	0	0	1	1	0	1	0	1	1	0	0	0	0	0.50
17	1	0	0	1	0	0	1	0	1	0	0	1	1	0	0	1	0.44
18	0	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	0.63
19	1	0	0	1	1	0	1	0	0	1	0	0	1	1	1	0	0.50
20	0	0	1	1	0	1	1	0	1	0	0	0	1	1	0	1	0.50
21	0	0	0	1	0	0	1	0	1	0	1	1	0	1	1	0	0.44
22	0	1	0	0	1	1	1	0	1	1	1	0	0	0	1	1	0.56
23	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0.75
24	1	1	1	1	1	0	1	0	1	0	1	0	0	0	0	1	0.56
25	1	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0.44
26	0	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	0.75
27	1	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0.56
28	1	1	0	1	1	0	1	0	1	1	0	1	1	1	1	1	0.75
29	0	0	1	0	1	1	1	1	1	1	1	1	0	1	0	0	0.63
30	0	0	1	1	1	0	1	0	1	0	1	0	0	0	1	1	0.50
31	0	0	0	1	1	0	0	1	0	1	1	1	0	1	0	0	0.44
32	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0.69
33	0	1	1	0	0	0	0	0	0	1	0	0	1	1	1	1	0.44
34	1	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	0.75
35	0	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0	0.75
36	0	0	1	1	1	0	1	0	1	0	0	0	0	0	0	1	0.38
37	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	0	0.63
38	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0.19
39	0	1	0	0	0	0	1	0	1	1	0	1	1	0	1	0	0.44
40	0	1	0	1	1	1	1	1	0	1	0	1	0	1	0	1	0.63
41	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	0	0.75
42	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0.81
43	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	1	0.75
44	1	0	1	0	0	1	0	1	0	1	1	0	1	1	1	1	0.63
45	0	0	0	0	1	1	1	1	1	0	0	1	0	0	1	1	0.50
46	1	1	0	1	1	1	0	1	1	1	1	1	0	0	1	1	0.75
47	1	0	0	1	1	1	1	1	0	0	0	0	1	1	0	1	0.56
48	0	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	0.75
49	0	1	0	1	1	0	1	0	0	0	1	1	1	0	1	1	0.56
50	1	1	1	1	1	1	0	0	1	0	1	1	1	1	0	1	0.75
51	1	1	1	1	0	1	0	1	1	1	0	0	1	1	1	1	0.75
52	1	1	0	0	1	1	1	1	1	0	0	1	0	0	0	1	0.56
53	1	1	1	1	0	1	0	0	1	1	0	0	1	1	1	1	0.69
54	1	1	1	0	0	1	1	0	0	1	1	1	0	0	1	0	0.56
55	0	1	1	0	0	0	0	0	1	0	0	0	1	1	1	1	0.44
56	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0	0.63
57	1	0	1	1	1	1	1	1	0	1	0	0	1	1	0	1	0.69
58	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0.88
59	0	1	1	1	1	0	1	0	0	1	1	0	0	1	1	1	0.63
60	0	1	0	1	1	1	1	0	0	1	1	1	1	0	0	1	0.63
Mean(B)	0.52	0.57	0.58	0.67	0.67	0.62	0.65	0.52	0.63	0.52	0.55	0.53	0.55	0.63	0.58	0.63	

Table. S2. Individual choices in the **temporal condition** for each bee and trial number. “1” indicates correct choice, and “0” indicates incorrect choice. The mean of columns (A) represents the mean proportion of correct choices per trial, while the mean of rows (B) represents the mean proportion of correct choices per bee

Bee	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Mean(A)
Trial																	
1	0	1	1	0	0	0	1	1	0	1	1	1	1	0	1	1	0.63
2	0	1	0	0	0	0	1	1	0	1	1	1	1	1	0	1	0.56
3	0	0	1	1	1	0	1	1	0	0	1	1	0	0	1	0	0.50
4	0	0	0	1	1	1	1	0	0	1	1	0	1	1	1	0	0.56
5	0	1	1	1	0	1	1	1	1	0	0	0	0	0	1	0	0.50
6	1	0	1	1	1	1	1	1	0	1	0	1	0	1	1	1	0.75
7	0	1	0	0	1	0	1	1	1	0	0	0	0	0	1	1	0.44
8	1	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0.44
9	0	1	1	0	0	0	1	1	0	1	1	0	0	1	0	1	0.50
10	1	0	0	1	1	1	0	0	1	1	1	1	1	0	0	1	0.63
11	0	1	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0.38
12	1	0	1	0	1	0	0	1	0	0	0	1	0	1	1	0	0.44
13	1	0	1	0	1	0	1	0	1	0	0	1	0	0	0	0	0.38
14	1	1	1	0	0	0	1	1	0	1	1	0	1	0	0	0	0.50
15	0	1	0	0	1	1	1	0	1	1	0	1	0	0	0	0	0.50
16	1	0	1	1	1	1	0	0	1	1	0	1	1	1	1	0	0.69
17	0	1	0	1	0	0	1	0	1	0	0	0	0	0	1	1	0.38
18	1	0	0	1	0	1	0	1	0	0	1	0	0	1	1	1	0.50
19	0	1	1	0	1	0	1	1	0	0	1	0	1	1	0	0	0.50
20	0	0	1	0	0	0	1	0	0	1	1	1	1	1	1	0	0.50
21	0	1	1	1	1	1	1	1	0	0	1	0	0	0	1	0	0.56
22	1	1	0	0	1	1	1	0	1	0	0	1	1	0	0	0	0.50
23	0	0	0	1	0	1	1	0	1	0	0	0	1	1	1	1	0.50
24	1	0	0	1	1	0	1	1	0	1	1	1	0	0	1	1	0.63
25	0	1	0	1	0	0	0	1	0	0	1	1	1	1	0	0	0.44
26	0	0	1	0	0	0	1	0	1	1	1	0	0	1	1	0	0.44
27	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	0.88
28	0	0	1	0	0	1	0	1	0	0	1	0	1	0	1	0	0.38
29	1	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0.63
30	0	0	1	1	0	0	0	1	0	0	1	1	0	0	0	1	0.38
31	0	1	1	0	1	1	0	0	0	1	0	0	1	1	1	0	0.50
32	0	1	0	1	0	1	0	1	1	0	1	0	0	1	1	0	0.50
33	1	0	1	1	1	0	1	1	1	1	0	1	0	1	0	1	0.69
34	1	1	0	0	1	1	1	0	1	0	1	1	0	0	0	0	0.50
35	0	0	1	0	0	1	1	0	1	0	1	0	1	1	0	0	0.44
36	0	0	0	0	1	0	0	0	1	1	0	1	1	1	0	0	0.38
37	0	1	1	0	1	0	1	1	0	0	0	0	0	0	0	1	0.38
38	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0.31
39	0	1	0	1	1	0	0	0	1	0	0	1	0	1	1	0	0.44
40	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	0.50
41	1	1	1	1	1	1	0	1	1	0	0	1	1	0	0	1	0.69
42	0	0	1	0	0	1	0	1	1	0	0	1	1	0	1	0	0.44
43	1	0	1	0	1	1	1	0	1	0	1	0	1	1	1	1	0.69
44	0	0	0	0	0	1	1	1	0	1	1	0	0	0	0	1	0.38
45	0	1	1	1	0	1	1	0	1	1	1	1	1	0	0	1	0.69
46	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0.25
47	0	1	0	1	1	0	0	1	0	0	1	1	1	1	1	0	0.56
48	1	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0.38
49	0	0	0	1	1	1	0	1	0	1	0	1	0	0	1	0	0.44
50	0	1	1	0	0	0	0	1	1	0	1	1	1	0	0	1	0.50
51	1	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0.56
52	1	0	0	1	1	1	0	0	0	0	1	1	1	1	0	1	0.56
53	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0.69
54	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0.56
55	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0.25
56	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0.38
57	1	1	0	1	0	1	0	0	0	0	0	1	1	1	1	1	0.56
58	0	0	1	0	1	1	1	0	1	0	0	1	1	1	1	0	0.56
59	1	0	1	1	1	1	1	1	0	0	0	1	0	1	0	0	0.56
60	1	0	1	0	1	1	0	0	0	1	1	0	1	0	0	1	0.50
Mean(B)	0.42	0.48	0.55	0.45	0.55	0.55	0.60	0.57	0.45	0.42	0.60	0.57	0.47	0.48	0.50	0.45	

Table. S3. Generalised linear mixed model result for the preliminary full model including the interaction term (3). There is a significant interaction between trial number and experimental condition.

	Coefficient (β)	Standard error	z-score	p-value
<i>Main effect</i>				
(1) Trial number	-0.002391	0.0037	-0.641	0.521
(2) Condition	-0.039029	0.1858	-0.210	0.834
(3) Trial number*Condition	0.012280	0.0053	2.303	0.021*