

id	trt	trialno	response	learning chronic 350ppm restructured
1	1	1	1	0
1	1	1	2	1
1	1	1	3	1 trt
1	1	1	4	1
1	1	1	5	1
1	1	1	6	1
2	1	1	1	0
2	1	1	2	0
2	1	1	3	0
2	1	1	4	0
2	1	1	5	1
2	1	1	6	1
3	1	1	1	0
3	1	1	2	1
3	1	1	3	1
3	1	1	4	1
3	1	1	5	1
3	1	1	6	1
4	1	1	1	0
4	1	1	2	1
4	1	1	3	1
4	1	1	4	1
4	1	1	5	1
4	1	1	6	1
5	1	1	1	0
5	1	1	2	0
5	1	1	3	1
5	1	1	4	1
5	1	1	5	1
5	1	1	6	1
6	1	1	1	0
6	1	1	2	1
6	1	1	3	1
6	1	1	4	1
6	1	1	5	1
6	1	1	6	1
7	1	1	1	0
7	1	1	2	0
7	1	1	3	1
7	1	1	4	1
7	1	1	5	0
7	1	1	6	1
8	1	1	1	0
8	1	1	2	1
8	1	1	3	1
8	1	1	4	1
8	1	1	5	1
8	1	1	6	1
9	1	1	1	0
9	1	1	2	0
9	1	1	3	1
9	1	1	4	0
9	1	1	5	0
9	1	1	6	0
10	1	1	1	0
10	1	1	2	0
10	1	1	3	0
10	1	1	4	1
10	1	1	5	1
10	1	1	6	0
11	2	2	1	0
11	2	2	2	0
11	2	2	3	0

7 day feeding expt

1 = sucrose only control

2 = 350 ppm Hv1a/GNA

1 trialno = training trials of learning expt, 1-6

0 response = did bee perform proboscis extension?

0 1 = yes

1 0 = no

11	2	4	1
11	2	5	1
11	2	6	1
12	2	1	0
12	2	2	1
12	2	3	0
12	2	4	0
12	2	5	1
12	2	6	1
13	2	1	0
13	2	2	1
13	2	3	1
13	2	4	1
13	2	5	1
13	2	6	1
14	2	1	0
14	2	2	0
14	2	3	1
14	2	4	1
14	2	5	1
14	2	6	1
15	2	1	0
15	2	2	1
15	2	3	1
15	2	4	1
15	2	5	1
15	2	6	1
16	2	1	0
16	2	2	1
16	2	3	1
16	2	4	1
16	2	5	1
16	2	6	1
17	2	1	0
17	2	2	1
17	2	3	1
17	2	4	1
17	2	5	1
17	2	6	1
18	2	1	0
18	2	2	1
18	2	3	1
18	2	4	1
18	2	5	0
18	2	6	1
19	1	1	0
19	1	2	1
19	1	3	1
19	1	4	0
19	1	5	1
19	1	6	1
20	1	1	0
20	1	2	0
20	1	3	0
20	1	4	1
20	1	5	1
20	1	6	0
21	1	1	0
21	1	2	0
21	1	3	1
21	1	4	1
21	1	5	1
21	1	6	1
22	1	1	0

22	1	2	1
22	1	3	0
22	1	4	0
22	1	5	0
22	1	6	0
23	1	1	0
23	1	2	0
23	1	3	0
23	1	4	0
23	1	5	0
23	1	6	1
24	1	1	0
24	1	2	1
24	1	3	1
24	1	4	1
24	1	5	0
24	1	6	0
25	1	1	0
25	1	2	0
25	1	3	1
25	1	4	1
25	1	5	1
25	1	6	1
26	1	1	0
26	1	2	0
26	1	3	1
26	1	4	1
26	1	5	1
26	1	6	1
27	1	1	0
27	1	2	1
27	1	3	1
27	1	4	0
27	1	5	1
27	1	6	1
28	2	1	0
28	2	2	0
28	2	3	1
28	2	4	0
28	2	5	1
28	2	6	1
29	2	1	0
29	2	2	1
29	2	3	0
29	2	4	1
29	2	5	0
29	2	6	0
30	2	1	0
30	2	2	0
30	2	3	1
30	2	4	1
30	2	5	1
30	2	6	1
31	2	1	0
31	2	2	1
31	2	3	1
31	2	4	1
31	2	5	1
31	2	6	1
32	2	1	0
32	2	2	0
32	2	3	0
32	2	4	1
32	2	5	0

32	2	6	0
33	2	1	0
33	2	2	1
33	2	3	1
33	2	4	0
33	2	5	1
33	2	6	1
34	1	1	0
34	1	2	0
34	1	3	0
34	1	4	0
34	1	5	1
34	1	6	1
35	1	1	0
35	1	2	0
35	1	3	0
35	1	4	0
35	1	5	1
35	1	6	1
36	1	1	0
36	1	2	1
36	1	3	1
36	1	4	1
36	1	5	1
36	1	6	1
37	1	1	0
37	1	2	0
37	1	3	0
37	1	4	1
37	1	5	1
37	1	6	1
38	1	1	0
38	1	2	1
38	1	3	1
38	1	4	1
38	1	5	1
38	1	6	1
39	1	1	0
39	1	2	0
39	1	3	0
39	1	4	1
39	1	5	0
39	1	6	0
40	1	1	0
40	1	2	0
40	1	3	1
40	1	4	1
40	1	5	1
40	1	6	1
41	2	1	0
41	2	2	0
41	2	3	0
41	2	4	1
41	2	5	1
41	2	6	1
42	2	1	0
42	2	2	0
42	2	3	0
42	2	4	0
42	2	5	1
42	2	6	1
43	2	1	0
43	2	2	0
43	2	3	1

43	2	4	1
43	2	5	1
43	2	6	1
44	2	1	0
44	2	2	1
44	2	3	1
44	2	4	1
44	2	5	1
44	2	6	1
45	2	1	0
45	2	2	0
45	2	3	1
45	2	4	1
45	2	5	1
45	2	6	1
46	2	1	0
46	2	2	0
46	2	3	1
46	2	4	1
46	2	5	1
46	2	6	1

trt	resp	time	odour	memory chronic 350ppm restructured
	1	1	2	1
	1	1	2	1
	1	1	2	1 trt
	1	0	2	1
	1	1	2	1
	1	1	2	1
	1	1	2	1
	1	1	2	1
	1	1	2	1
	1	0	2	1
	1	0	2	1
	2	1	2	1
	2	0	2	1 timepoint
	2	1	2	1 1 = 6th learning trial
	2	1	2	1 2 = 10 mins later (short term memory)
	2	1	2	1 3 = 24h later (long term memory)
	2	1	2	1
	2	1	2	1
	2	0	2	1 response = did bee perform proboscis extension?
	1	1	2	1 1 = yes
	1	0	2	1 0 = no
	1	1	2	1
	1	0	2	1
	1	1	2	1
	1	1	2	1
	1	1	2	1
	1	1	2	1
	1	1	2	1
	1	0	2	1
	2	1	2	1
	2	0	2	1
	2	1	2	1
	2	1	2	1
	2	1	2	1
	2	1	2	1
	1	0	2	1
	1	1	2	1
	1	1	2	1
	1	0	2	1
	1	0	2	1

2	1	3	1
2		3	1
2	1	3	1
2	1	3	1
2	1	3	1
2	1	3	1
2	0	3	1
2	0	3	1
1	1	3	1
1	1	3	1
1	1	3	1
1	0	3	1
1	0	3	1
1	0	3	1
1	1	3	1
1	0	3	1
1	0	3	1
2	1	3	1
2	0	3	1
2	1	3	1
2	0	3	1
2	0	3	1
2	1	3	1
1	0	3	1
1	0	3	1
1	1	3	1
1	0	3	1
1	1	3	1
1	0	3	1
1	1	3	1
2	0	3	1
2	0	3	1
2	1	3	1
2	1	3	1
2	1	3	1
1	0	3	2
1	0	3	2
1	0	3	2
1	1	3	2
1	1	3	2
1	1	3	2
1	0	3	2
1	0	3	2
1	0	3	2
1	1	3	2
1	1	3	2
1	1	3	2
2	0	3	2
2	0	3	2
2	1	3	2
2	1	3	2
2	0	3	2
2	1	3	2
2	0	3	2
2	0	3	2
1	1	3	2
1	1	3	2
1	1	3	2
1	0	3	2
1	0	3	2
1	0	3	2
1	1	3	2
1	0	3	2
1	0	3	2
2	0	3	2

100ug acute data

trt (treatment)

1 = sucrose fed control

2 = Hv1a/GNA

3 = benidipine HCl

4 = GNA

training trials of learning expt, T1-6

binary data shows did bee perform proboscis extension in response to odour?

1 = yes

0 = no

trt	T1	T2	T3	T4	T5	T6	
1	1	0	1	1	0	1	1
1	1	0	0	1	1	1	1
1	1	0	0	1	1	1	1
1	1	0	1	0	0	0	1
1	1	0	0	1	0	1	0
1	1	0	1	1	1	1	1
1	1	0	1	1	1	1	1
1	1	0	0	1	1	1	1
1	1	0	1	1	1	1	1
1	1	0	0	0	1	1	0
1	1	0	0	1	1	0	1
2	2	0	1	1	1	1	1
2	2	0	0	0	1	1	1
2	2	0	0	1	1	1	1
2	2	0	0	0	0	0	1
2	2	0	0	0	0	0	0
2	2	0	0	1	0	1	0
2	2	0	1	1	1	1	0
2	2	0	0	0	0	0	1
2	2	0	0	0	0	0	0
2	2	0	0	1	1	1	1
2	2	0	1	1	1	1	1
3	3	0	0	1	1	0	1
3	3	0	1	1	1	1	1
3	3	0	1	0	0	1	0
3	3	0	0	1	0	1	1
3	3	0	0	0	0	0	0
3	3	0	0	0	0	0	0
3	3	0	1	1	0	0	1
3	3	0	0	0	0	0	1
3	3	0	0	0	1	0	0
3	3	0	0	0	0	1	0
3	3	0	1	0	1	0	1
3	3	0	0	0	1	0	0
3	3	0	0	0	0	0	0
4	4	0	1	1	1	1	0
4	4	0	1	1	1	1	1
4	4	0	0	0	0	0	0
4	4	0	0	1	1	1	1
4	4	0	0	1	1	0	1
4	4	0	1	0	0	0	0
4	4	0	0	0	1	1	1
4	4	0	0	0	1	1	1
4	4	0	0	1	0	1	1
4	4	0	0	0	0	1	1
4	4	0	1	1	1	1	1
4	4	0	1	1	1	1	1
4	4	0	1	1	1	1	1
4	4	0	1	1	1	0	1

4	0	0	0	0	1	1
1	0	0	1	1	1	1
1	0	1	1	1	1	1
1	0	1	1	1	1	1
1	0	0	1	1	1	1
1	0	1	1	1	1	1
1	0	0	1	0	0	0
1	0	0	0	0	1	1
1	0	0	0	0	0	0
2	0	0	1	1	1	1
2	0	0	0	0	1	1
2	0	1	1	1	1	1
2	0	0	1	1	1	1
2	0	0	0	0	0	0
2	0	1	1	1	1	1
2	0	1	1	1	1	1
2	0	0	1	1	1	1
4	0	0	0	0	0	0
4	0	0	1	1	1	1
4	0	0	1	1	1	1
4	0	1	1	1	1	1
4	0	1	1	1	1	1
4	0	1	1	1	1	1
4	0	1	1	1	1	1
4	0	0	1	0	0	0
4	0	0	1	1	1	1
4	0	0	1	1	1	1
3	0	0	0	0	1	1
3	0	0	0	0	0	0
3	0	0	1	1	1	1
3	0	0	1	0	1	0
3	0	0	0	0	0	0
3	0	0	0	0	0	1
3	0	1	1	1	1	1
3	0	0	1	1	1	0
3	0	0	1	0	1	1
3	0	0	0	0	0	0

trt	Response	timepoint	odour	100ug acute memory
1	1	1	1	1 trt (treatment)
1	1	1	1	1 1 = sucrose fed control
1	1	1	1	1 2 = Hv1a/GNA
1	1	1	1	1 3 = benidipine HCl
1	0	1	1	1 4 = GNA
1	1	1	1	1
1	1	1	1	1 odour
1	1	1	1	1 1 = hexanol (trained odour)
1	1	1	1	1 2 = octanol (novel odour)
1	0	1	1	1
1	1	1	1	1
2	1	1	1	1 timepoint
2	1	1	1	1 1 = 6th learning trial
2	1	1	1	1 2 = 10 mins later (short term memory)
2	1	1	1	1 3 = 24h later (long term memory)
2	0	1	1	1
2	0	1	1	1
2	0	1	1	1 response = did bee perform proboscis extension?
2	1	1	1	1 1 = yes
2	0	1	1	1 0 = no
2	1	1	1	1
2	1	1	1	1
3	1	1	1	1

3	1	1	1
3	0	1	1
3	1	1	1
3	0	1	1
3	0	1	1
3	1	1	1
3	1	1	1
3	0	1	1
3	0	1	1
3	1	1	1
3	0	1	1
3	0	1	1
4	0	1	1
4	1	1	1
4	0	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	0	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	0	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	0	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
4	1	1	1
3	1	1	1
3	0	1	1
3	1	1	1
3	0	1	1
3	0	1	1
3	1	1	1
3	1	1	1
3	0	1	1
3	1	1	1
3	1	1	1
3	0	1	1
3	1	1	1
3	0	1	1
1	0	2	1
1	1	2	1
1	1	2	1

1	0	2	1
1	0	2	1
1	1	2	1
1	1	2	1
1	1	2	1
1	1	2	1
1	0	2	1
1	0	2	1
2	1	2	1
2	1	2	1
2	1	2	1
2	0	2	1
2	0	2	1
2	0	2	1
2	0	2	1
2	0	2	1
2	1	2	1
2	1	2	1
3	0	2	1
3	1	2	1
3	0	2	1
3	1	2	1
3	0	2	1
3	1	2	1
3	0	2	1
3	0	2	1
3	0	2	1
3	0	2	1
3	0	2	1
3	0	2	1
3	0	2	1
3	0	2	1
4	0	2	1
4	1	2	1
4	0	2	1
4	1	2	1
4	1	2	1
4	0	2	1
4	1	2	1
4	1	2	1
4	0	2	1
4	1	2	1
4	1	2	1
4	1	2	1
4	1	2	1
1	1	2	1
1	1	2	1
1	1	2	1
1	1	2	1
1	1	2	1
1	1	2	1
1	0	2	1
1	0	2	1
2	1	2	1
2	1	2	1
2	0	2	1
2	1	2	1
2	0	2	1
2	1	2	1
2	1	2	1
2	1	2	1
4	0	2	1
4	1	2	1
4	1	2	1

4	1	2	1
4	0	2	1
4	0	2	1
4	1	2	1
4	0	2	1
4	0	2	1
4	1	2	1
3	1	2	1
3	0	2	1
3	1	2	1
3	0	2	1
3	0	2	1
3	1	2	1
3	0	2	1
3	1	2	1
3	0	2	1
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
1	0	2	2
2	0	2	2
2	0	2	2
2	1	2	2
2	0	2	2
2	0	2	2
2	0	2	2
2	0	2	2
2	0	2	2
2	0	2	2
2	0	2	2
2	1	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
4	0	2	2
4	1	2	2
4	0	2	2
4	1	2	2
4	1	2	2
4	0	2	2
4	1	2	2
4	0	2	2
4	1	2	2
4	1	2	2
4	0	2	2
4	0	2	2

4	1	2	2
1	1	2	2
1	1	2	2
1	0	2	2
1	0	2	2
1	1	2	2
1	0	2	2
1	0	2	2
1	0	2	2
2	0	2	2
2	0	2	2
2	0	2	2
2	1	2	2
2	0	2	2
2	0	2	2
2	1	2	2
2	0	2	2
4	0	2	2
4	0	2	2
4	0	2	2
4	0	2	2
4	0	2	2
4	0	2	2
4	1	2	2
4	0	2	2
4	0	2	2
4	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	0	2	2
3	1	2	2
3	0	2	2
3	0	2	2
3	0	2	2
1	1	3	1
1	0	3	1
1	0	3	1
1	1	3	1
1	1	3	1
1	1	3	1
1	1	3	1
1	0	3	1
1	1	3	1
1	1	3	1
1	1	3	1
2	1	3	1
2	1	3	1
2	0	3	1
2	0	3	1
2	0	3	1
2	0	3	1
2	0	3	1
2	0	3	1
2	1	3	1
2	0	3	1
2	1	3	1
3	1	3	1
3	0	3	1
3	1	3	1
3	1	3	1
3	0	3	1

3	0	3	1
3	0	3	1
3		3	1
3		3	1
3		3	1
3		3	1
3		3	1
3		3	1
4	0	3	1
4	1	3	1
4	0	3	1
4	1	3	1
4	1	3	1
4	0	3	1
4	1	3	1
4	1	3	1
4	0	3	1
4	1	3	1
4	1	3	1
1	1	3	1
1	0	3	1
1	1	3	1
1	0	3	1
1	0	3	1
1	1	3	1
1		3	1
1		3	1
2	0	3	1
2	1	3	1
2	0	3	1
2	0	3	1
2	0	3	1
2	1	3	1
2	1	3	1
2		3	1
4	0	3	1
4	1	3	1
4	1	3	1
4	1	3	1
4	1	3	1
4	0	3	1
4	0	3	1
4	1	3	1
4		3	1
4		3	1
3	1	3	1
3	1	3	1
3	1	3	1
3	1	3	1
3	0	3	1
3	0	3	1
3	1	3	1
3	0	3	1
3	1	3	1
3	0	3	1
1	0	3	2
1	0	3	2
1	0	3	2
1	0	3	2
1	0	3	2
1	1	3	2
1	1	3	2

1	0	3	2
1	1	3	2
1	1	3	2
1		3	2
2	0	3	2
2	0	3	2
2	0	3	2
2	0	3	2
2	0	3	2
2	0	3	2
2	1	3	2
2	0	3	2
2	0	3	2
2	0	3	2
3	0	3	2
3	0	3	2
3	0	3	2
3	0	3	2
3	0	3	2
3	0	3	2
3	0	3	2
3	0	3	2
3		3	2
3		3	2
3		3	2
3		3	2
3		3	2
3		3	2
4	0	3	2
4	1	3	2
4	0	3	2
4	1	3	2
4	0	3	2
4	0	3	2
4	1	3	2
4	0	3	2
4	1	3	2
4	1	3	2
4	1	3	2
4	1	3	2
4	0	3	2
1	0	3	2
1	0	3	2
1	0	3	2
1	0	3	2
1	1	3	2
1		3	2
1		3	2
2	1	3	2
2	0	3	2
2	0	3	2
2	0	3	2
2	0	3	2
2	1	3	2
2	0	3	2
2		3	2
4	0	3	2
4	0	3	2
4	0	3	2
4	1	3	2
4	0	3	2
4	0	3	2
4	0	3	2

Oral	ctrl time	ctrl status	gna time	gna status
	4	1	24	1
	4	1	24	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	1
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0
	48	0	48	0

Hv1a/GNA time Hv1a/GNA statu acet 14 time acet 14 status

4	1	4	1
4	1	4	1
4	1	4	1
4	1	4	1
48	1	4	1
48	1	4	1
48	1	4	1
48	1	4	1
48	1	4	1
48	1	4	1
48	1	4	1
48	1	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	4	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	24	1
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0
48	0	48	0

Injection	ctrl time	ctrl status	gna time	gna status
	48	0	4	1
	48	0	24	1

