

Supplemental Table 1.

Lists of binasal (E-E) and ipsi-nasal (E-0, E-I) neurons in each rat

AON neurons						OB neurons		
Rats	Cells	E-E, E-0 type	※ ¹ Ipsi. v.s. Contra	※ ² Boost-up	※ ³ Matching number (0-10)	Rats	Cells	E-E, E-0 type
#1	1	Binasal (E-E)	[I] > [C]	n.d.	8	#24	1	ipsi-nasal (E-0)
	2	Binasal (E-E)	[I] > [C]	n.d.	8		2	ipsi-nasal (E-0)
	3	Binasal (E-E)	[I] ≐ [C]	n.d.	10		3	ipsi-nasal (E-0)
#2	1	Binasal (E-E)	[I] < [C]	n.d.	10	4	ipsi-nasal (E-0)	
	2	Binasal (E-E)	[I] ≐ [C]	n.d.	10	5	ipsi-nasal (E-0)	
	3	ipsi-nasal (E-0)	n.d.	n.d.	n.d.	6	ipsi-nasal (E-0)	
	4	n.d.	n.d.	Y	n.d.	7	ipsi-nasal (E-0)	
	5	Binasal (E-E)	[I] > [C]	Y	9	#25	1	ipsi-nasal (E-0)
	6	Binasal (E-E)	[I] > [C]	n.d.	6		2	ipsi-nasal (E-0)
#3	1	Binasal (E-E)	[I] > [C]	Y	9	3	ipsi-nasal (E-0)	
	2	ipsi-nasal (E-0)	n.d.	N	n.d.	4	ipsi-nasal (E-0)	
#4	1	Binasal (E-E)	[I] ≐ [C]	N	n.d.	5	ipsi-nasal (E-0)	
	2	ipsi-nasal (E-0)	n.d.	n.d.	n.d.	6	ipsi-nasal (E-0)	
#5	1	ipsi-nasal (E-0)	n.d.	N	n.d.	7	ipsi-nasal (E-0)	
	2	ipsi-nasal (E-0)	n.d.	N	n.d.	8	ipsi-nasal (E-0)	
	3	Binasal (E-E)	[I] > [C]	Y	8	9	ipsi-nasal (E-0)	
	4	Binasal (E-E)	[I] < [C]	n.d.	8	10	ipsi-nasal (E-0)	
#6	1	ipsi-nasal (E-0)	n.d.	N	n.d.	11	ipsi-nasal (E-0)	
#7	1	Binasal (E-E)	[I] > [C]	Y	n.d.	12	ipsi-nasal (E-0)	
	2	Binasal (E-E)	[I] ≐ [C]	Y	n.d.	13	ipsi-nasal (E-0)	
#8	1	Binasal (E-E)	[I] > [C]	Y	n.d.	14	ipsi-nasal (E-0)	
	2	Binasal (E-E)	[I] > [C]	N	n.d.			
	3	Binasal (E-E)	[I] > [C]	Y	n.d.			
	4	Binasal (E-E)	[I] > [C]	N	n.d.			
#9	1	Binasal (E-E)	[I] > [C]	N	n.d.			
	2	ipsi-nasal (E-0)	n.d.	N	n.d.			
#10	1	Binasal (E-E)	[I] > [C]	N	n.d.			
#11	1	ipsi-nasal (E-I)	n.d.	n.d.	n.d.			
	2	ipsi-nasal (E-0)	n.d.	N	n.d.			
	3	ipsi-nasal (E-0)	n.d.	N	n.d.			
#12	1	Binasal (E-E)	[I] > [C]	N	n.d.			
	2	ipsi-nasal (E-I)	n.d.	n.d.	n.d.			
#13	1	ipsi-nasal (E-0)	n.d.	N	n.d.			
	2	n.d.	n.d.	N	n.d.			
#14	1	Binasal (E-E)	[I] > [C]	N	n.d.			
#15	1	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
	2	Binasal (E-E)	[I] ≐ [C]	n.d.	n.d.			
	3	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
	4	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
#16	1	Binasal (E-E)	[I] ≐ [C]	n.d.	n.d.			
#17	1	ipsi-nasal (E-0)	n.d.	N	n.d.			
	2	Binasal (E-E)	[I] > [C]	n.d.	8			
#18	1	ipsi-nasal (E-I)	n.d.	n.d.	n.d.			
	2	Binasal (E-E)	[I] > [C]	N	n.d.			
#19	1	Binasal (E-E)	[I] < [C]	n.d.	n.d.			
	2	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
	3	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
	4	Binasal (E-E)	[I] > [C]	n.d.	n.d.			
	5	Binasal (E-E)	[I] > [C]	n.d.	n.d.			
	6	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
#20	1	Binasal (E-E)	[I] > [C]	n.d.	8			
	2	Binasal (E-E)	[I] ≐ [C]	n.d.	6			
#21	1	Binasal (E-E)	[I] ≐ [C]	n.d.	n.d.			
#22	1	ipsi-nasal (E-0)	n.d.	n.d.	n.d.			
#23	1	n.d.	n.d.	Y	n.d.			

Y; Yes, N; none, n.d.; not determined

Note: ※¹; Averaged magnitude of responses to ipsi-nasal[I] and contra-nasal[C] stimulation.

※²; The boost-up of the responsiveness to contra-nasal odor stimulation after the ipsi-nostril obstruction.

※³; The number of bilateral odorant category matches (among 10 categories).