Supplementary Table 1. Detailed information of virus used in the present paper.

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| Name | Titer (genomix copies /ml) |
| AAV-CAG-Dio-TVA-GFP | 5×1012 |
| AAV-CAG-Dio-RVG  | 6.8×1012 |
| RV-Enva-dsRed  | 5.0×108 |
| VSV-mCherry  | 5.0×107 |

Supplementary Table 2 Comparison of olfactory system afferent to the subpopulation of BFCNs.

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| Brain areas | Abbreviations | Comparison of olfactory inputs  |
| MS/vDB: SI | MS/vDB: NBM | SI:NBM |
| Anterior amygdalar area | AAA | *P*>0.05 | *P<*0.05 | *P*>0.05 |
| Anterior olfactory nucleus | AON | *P*=0.002 | *P*>0.05 | *P*=0.002 |
| Basolateral amygdalar area | BLA | *P*>0.05 | *P*>0.05 | *P*>0.05 |
| Central amygdalar nucleus | CEA | *P*>0.05 | *P*=0.002 | *P*=0.002 |
| Cortical amygdalar area | COA | *P*>0.05 | *P*>0.05 | *P*>0.05 |
| Dorsal peduncular area | DP | *P*>0.05 | *P*>0.05 | *P*>0.05 |
| Hippocampus | HIP | *P*>0.05 | *P*=0.003 | *P*=0.002 |
| Olfactory bulb | OB | *P*=0.002 | *P*>0.05 | *P*=0.002 |
| Olfactory tubercle | OT | *P*<0.001 | *P*>0.05 | *P*<0.001 |
| Piriform-amygdalar area | PAA | *P*<0.001 | *P*>0.05 | *P*<0.001 |
| Piriform area | PIR | *P*=0.001 | *P*>0.05 | *P*=0.001 |
| Retrohippocampal area | RHP | *P*>0.05 | *P*>0.05 | *P*>0.05 |
| Taenia tecta | TT | *P*>0.05 | *P*>0.01 | *P*=0.002 |

Note: \**P*<0.05, \*\**P*<0.01 and \*\*\**P*<0.001; one-way ANOVA was used.