**Supplementary Table S1.** **Grouping of mice.**

|  |  |  |
| --- | --- | --- |
|  | Wild-type littermates | 5-HT2C receptor KO mice |
| Open field test – Elevated plus maze test – Contextual fear conditioning test | 15 (2) | 22 (4) |
| Open field test – Zero maze test – Contextual fear conditioning test | 13 | 7 (1) |
| Zero maze test – Contextual fear conditioning test | 7 | 11 (3) |
| Contextual fear conditioning test | 13 | 11 |
| Total | 48 | 51 |

Locomotor: locomotor activity in a novel box

The left column indicates the tests that mice on the right columns received , except for the last line of this column that indicates the total number of mice. Second line from the bottom means that these mice experienced only one test (contextual fear conditioning test). We added these mice because 5-HT2C receptor KO mice often died before the contextual fear conditioning test [20, 21].

Note that the numbers shown in parentheses indicate the number of animals excluded from the analysis of freezing behavior in the contextual fear conditioning test. They were excluded because they died before the contextual fear conditioning test or because their cage mates died during the contextual fear conditioning test.