

| Age<br>(month)        |       |    | Open field                                |                                                  | Zero maze                     | Y maze             |                                |
|-----------------------|-------|----|-------------------------------------------|--------------------------------------------------|-------------------------------|--------------------|--------------------------------|
|                       | n     |    | Locomotor activity<br>(distance moved, m) | Exploratory activity<br>(% time in explor. zone) | Entries in open<br>sector (%) | Arm entries<br>(n) | Spontaneous<br>alternation (%) |
| Longitudinal study    |       |    |                                           |                                                  |                               |                    |                                |
| 4                     | Wt    | 15 | 1.84 ± 0.16                               | 47.7 ± 4.1                                       | 25.3 ± 6.1                    | 31.1 ± 1.4         | 57.4 ± 2.1                     |
|                       | Tg    | 16 | 1.51 ± 0.14                               | 40.4 ± 5.5                                       | 14.6 ± 4.0                    | 24.4 ± 1.7 *       | 64.3 ± 2.4                     |
|                       | Tg/tg | 13 | 1.66 ± 0.17                               | 25.8 ± 4.1 *#                                    | 8.1 ± 2.3 *                   | 22.8 ± 1.8 *       | 57.7 ± 3.1                     |
| 8                     | Wt    | 15 | 1.77 ± 0.19                               | 25.1 ± 4.4                                       | 6.1 ± 2.8                     | 29.7 ± 2.4         | 60.3 ± 2.5                     |
|                       | Tg    | 16 | 1.51 ± 0.16                               | 18.3 ± 3.4                                       | 5.6 ± 1.6                     | 24.6 ± 1.5         | 61.0 ± 2.8                     |
|                       | Tg/tg | 13 | 1.40 ± 0.16                               | 18.0 ± 5.8                                       | 5.9 ± 1.7                     | 20.3 ± 1.5 *       | 70.7 ± 4.2 *#                  |
| 12                    | Wt    | 15 | 1.37 ± 0.15                               | 14.7 ± 3.6                                       | 2.1 ± 0.8                     | 22.5 ± 1.9         | 59.1 ± 2.8                     |
|                       | Tg    | 16 | 1.25 ± 0.12                               | 11.6 ± 3.0                                       | 0.8 ± 0.5                     | 22.1 ± 1.4         | 54.7 ± 3.2                     |
|                       | Tg/tg | 11 | 1.32 ± 0.12                               | 12.8 ± 2.9                                       | 0.9 ± 0.6                     | 18.0 ± 1.2         | 55.9 ± 4.8                     |
| Cross-sectional study |       |    |                                           |                                                  |                               |                    |                                |
| 8                     | Wt    | 14 | 2.19 ± 0.19                               | 38.3 ± 4.4                                       | 10.2 ± 2.6                    | 26.2 ± 3.1         | 63.0 ± 2.5                     |
|                       | Tg    | 15 | 2.33 ± 0.13                               | 39.7 ± 3.6                                       | 10.2 ± 1.9                    | 18.5 ± 1.7 *       | 64.0 ± 1.9                     |
|                       | Tg/tg | 12 | 1.75 ± 0.18 #                             | 34.3 ± 5.1                                       | 9.0 ± 2.8                     | 16.8 ± 2.0 *       | 65.0 ± 3.3                     |
| 12                    | Wt    | 14 | 2.57 ± 0.30                               | 45.0 ± 3.9                                       | 7.4 ± 3.4                     | 29.6 ± 2.2         | 59.2 ± 2.3                     |
|                       | Tg    | 14 | 1.92 ± 0.14                               | 53.5 ± 5.9                                       | 4.7 ± 1.9                     | 19.9 ± 1.6 *       | 68.7 ± 3.1                     |
|                       | Tg/tg | 14 | 2.05 ± 0.12                               | 52.8 ± 5.1                                       | 15.3 ± 6.0                    | 19.1 ± 1.5 *       | 68.1 ± 4.6                     |

\* p<0.05 versus wt

# p<0.05 versus tg

