

Olfactory signatures in the food-finding test in male and female mice with normal and AD-pathological aging with special concerns on the effects of social isolation

Daniela Marín-Pardo, Lydia Giménez-Llort

Supplementary Table 1. Factorial analysis

| Variables | F | Factor Sex | Factor Genotype | Significance p value |
|----------------------------|------------------|------------|-----------------|----------------------|
| A. Food deprivation | | | | |
| Wpre | F(1,86)= 34.369 | S*** | G*** | p= 0.000 |
| | F(1,86)= 152.694 | | | p= 0.000 |
| Wpos | F(1,86)=36.481 | S*** | G*** | p= 0.000 |
| | F(1,86)=210.954 | | | p= 0.000 |
| %Wloss | F(1,86)=6.585 | S* | | p= 0.012 |
| Final Weight | F(1,86)=52.252 | S*** | G*** | p= 0.000 |
| | F(1,86)=223.375 | | | p= 0.000 |
| B. Food-finding test | | | | |
| Latency of Smell | F(1,86)=5.558 | S* | | p= 0.021 |
| Latency of Finding Food | F(1,86)=12.686 | | G*** | p= 0.001 |
| Latency of Eating | F(1,86)=41.984 | | G*** | p= 0.000 |
| Time delay between actions | | | | |
| Smelling- Finding | F(1,86)=15.535 | (S*) | G*** | p= 0.000 |
| Finding – Eating | F(1,86)=28.649 | | G*** | p= 0.000 |
| Smelling – Eating | F(1,86)=44.539 | | G*** | p= 0.000 |
| | F(1,86)=3.864 | | | p= 0.053 |
| Naturalistic Isolation | | | | |
| A. Food deprivation | | | | |
| Wpre | F(2,43)= 30.546 | | G*** | p= 0.000 |
| Wpos | F(2,43)=44.698 | | G*** | p= 0.000 |
| Final Weight | F(2,43)=52.114 | | G*** | p= 0.000 |
| Food-finding test | | | | |
| Latency of Smell | F(2,43)=3.661 | | G* | p= 0.034 |
| Latency of Finding | F(2,43)=20.275 | | G*** | p= 0.000 |
| Latency of Eating | F(2,43)=34.979 | | G*** | p= 0.000 |
| Time delay between actions | | | | |
| Smelling- Finding | F(2,43)=11.517 | | G*** | p= 0.000 |
| Finding – Eating | F(2,43)=10.930 | | G*** | p= 0.000 |
| Smelling – Eating | F(2,43)=19.130 | | G*** | p= 0.000 |

Abbreviations: Wpre, initial weight before fasting; Wpost, weight after fasting; % Wloss, % weight lost overnight; Final W, final weight 24h later. Statistics: G, genotype, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. NTg mice of the same sex; S, sex, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. male of the same genotype.