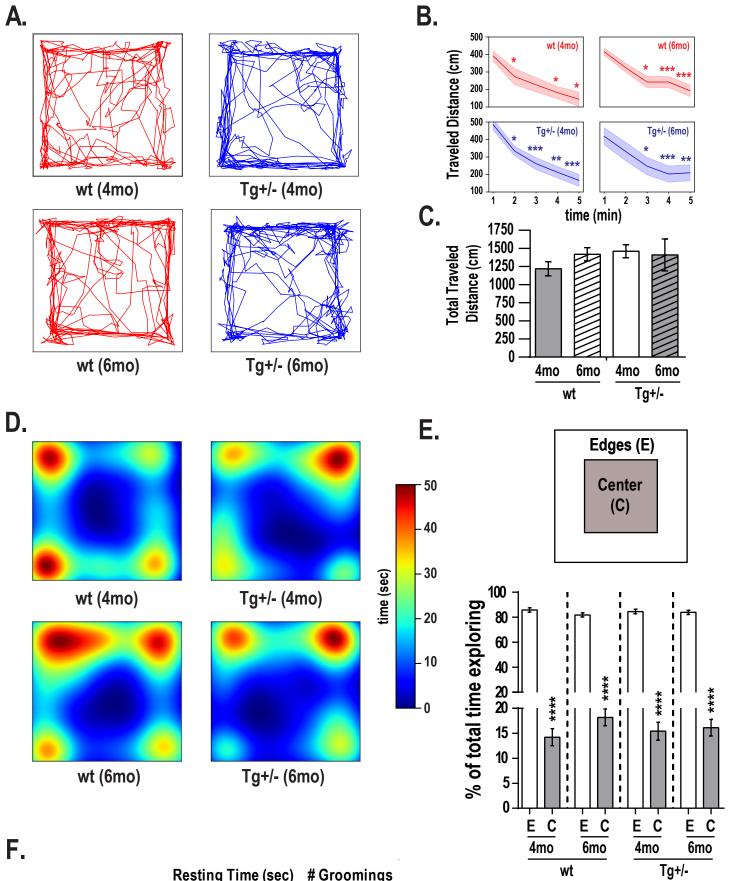
Supplementary Figure 4 (S4)



		Resting Time (sec)	# Groomings
wt	4 mo	11,88 ± 3,56	1,75 ± 0,49
	6 mo	11,50 ± 4,03	1,83 ± 0,47
Tg+/-	4 mo	18,75 ± 6,67	2,50 ± 0,56
	6 mo	22,38 ± 4,20	2,25 ± 0,52

Supplementary Figure 4 (S4). Quantitative analysis of trajectory, traveled distance and resting time in the OF: A) Overall trajectory in the experimental arena. Path traveled by McGill-R-Thy1-APP Tg+/- male rats (blue line) and their wt littermates (red line) during the 5 minutes training session (Tr). Representative trajectories for 4- and 6-month-old wt ad Tg+/rats. B) Traveled distance based on time segment. Average distance traveled by Tg+/male rats (blue line) and their wt littermates (red line) was calculated in one-minute bins. Numbers represent mean traveled distance ± SEM. Statistically significant differences indicating short term habituation (ST) to the OF- were assessed by One-way ANOVA, Dunnett post-hoc test (*, P<0.05, ** P<0.01, *** P<0.001). C) Total distance traveled. Bar diagram represents mean distance traveled ± SEM in the total 5 minutes time-frame. No statistically significant differences were observed for any selected pair of genotype and age (One-way ANOVA, Dunnett post-hoc test). D) Heat-map plot indicating time spent in the different locations. For the raw scatter plot of the rat position (one xy-coordinate per timepoint), the plotting window was cut in several bins, and the number of data points in each bin is represented by a different color. The resulting 2D histogram was subjected to a Gaussian KDE (kernel density estimate) processing to generate the final smoothed 2D density plot. Red = more time, blue = less time. Representative heat-maps for 4- and 6-month-old. wt and Tg+/- rats. E) Bidimensional exploratory behavior by zone. Two regions-of-interest (ROIs), the outer edge (E, white) and the center (C, gray) of the arena were delimitated. Number of time-points within each ROI were counted and expressed as a percentage of the 5 minutes time-frame total time-points. Bars represent mean exploration time ± SEM. Time spent in (C) was significantly lower compared with time in (E) for any selected genotype and age (**** P<0.0001, One-way ANOVA, Tukey's multiple comparisons test). No statistically significant differences were observed between time spent in (E) among the different groups, and (C) values were also similar between groups (One-way ANOVA, Tukey's multiple comparisons test). F) Resting time and stereotyped behavior. The amount of time the rats remained motionless as well as the repetitive movement (number of grooming stereotypies) were assessed. Numbers represent mean values ± SEM. No statistically significant differences in these parameters were observed for any selected pair of genotype and age (One-way ANOVA, Dunnett post-hoc test).