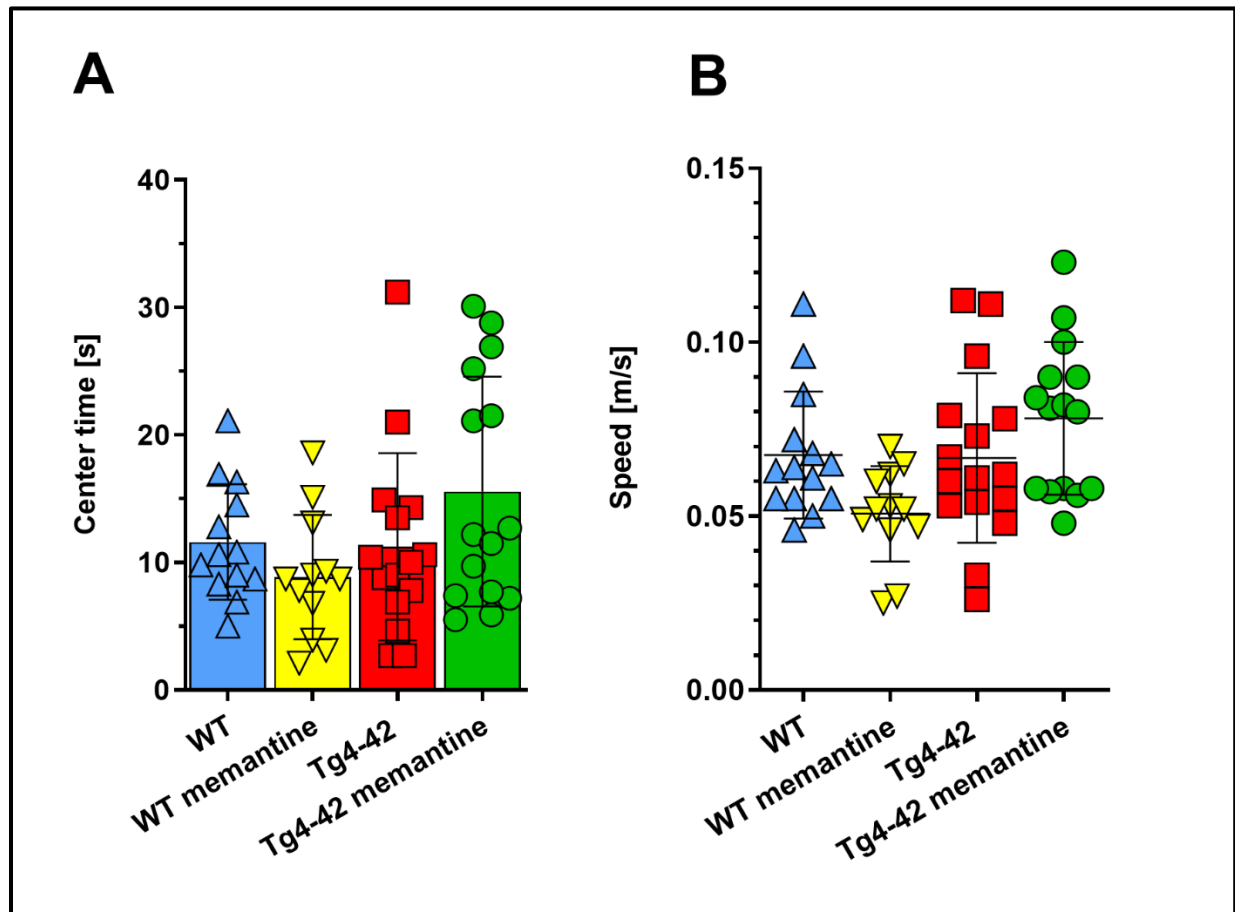


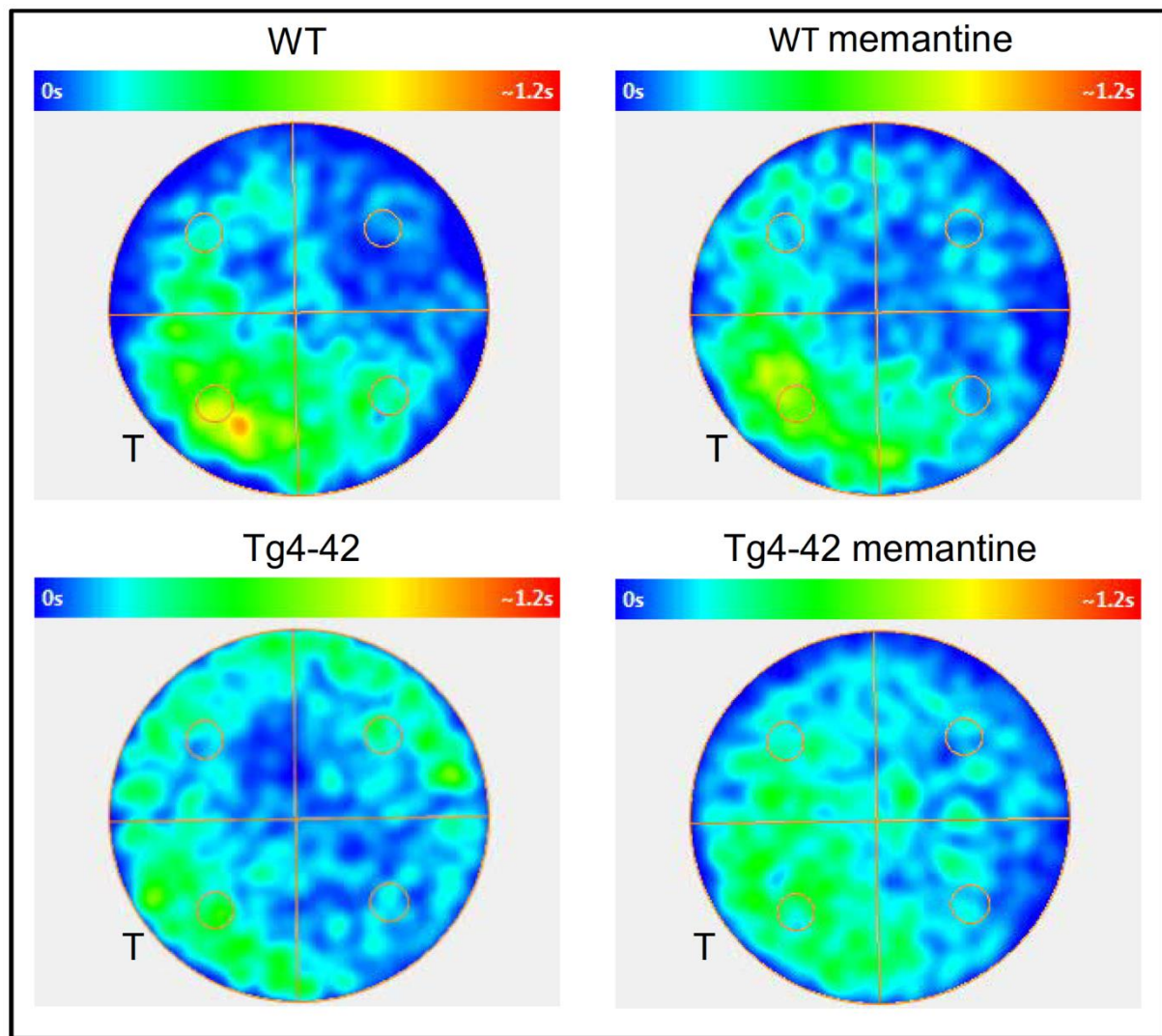
Supplemental Information Stazi & Wirths:

“Chronic memantine treatment ameliorates behavioral deficits, neuron loss and impaired neurogenesis in a model of Alzheimer’s disease”

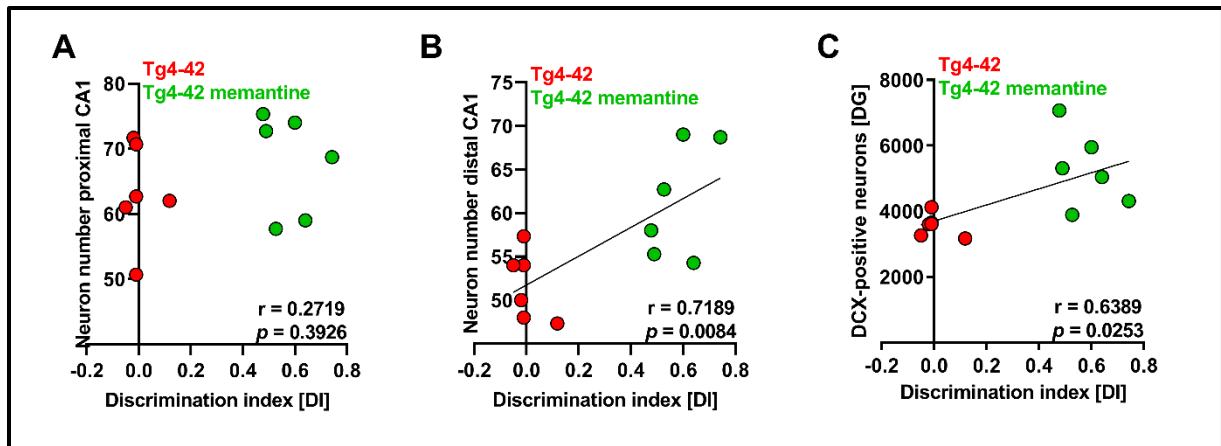
(Molecular Neurobiology)



Supplemental Fig. S1: No significant differences in the time spent in the center of the open field paradigm or in the average speed were detected among the different genotypes.



Supplemental Fig. S2: Merged occupancy plots illustrating performance of the entire groups in the probe trial in the Morris water maze paradigm. T – target quadrant



Supplemental Fig. S3: While no significant correlation could be established between the Discrimination index (DI) in the Novel Object Recognition task and CA1 neuron number in the proximal part (Pearson $r = 0.2719$, $p = 0.3926$) (**A**), a highly significant correlation was detected between DI and the distal CA1 neuron number (Pearson $r = 0.7189$, $p = 0.0084$) (**B**). The same holds true for the correlation between neurogenesis rate expressed by the number of DCX-positive neurons in the dentate gyrus (DG) and DI (Pearson $r = 0.6389$, $p = 0.0253$) (**C**).