

Table S5. Correlation between bacterial diversity and histological measures and behavioral test in 3xTg at PD150 mice.

Parameter	<i>p</i> -value	r	R ²
Total- and 1-42 Aβ in the dorsal hippocampus			
A β 1-42 area in <i>subiculum</i>	0.0179	0.7871	0.6195
A β 1-42 area in CA1	0.0726	0.6108	0.3730
A β 1-42 area in CA3	0.0086	0.8428	0.7103
Total A β area in <i>subiculum</i>	0.0012	0.9305	0.8658
Total A β area in CA1	0.0030	0.8985	0.8073
Total A β area in CA3	0.0007	0.9441	0.8914
Novel object localization			
NOL_Training_Preference	0.0633	-0.3982	0.1585
NOL_Retention_Preference	0.0113	-0.5648	0.3190

Pearson correlation coefficients were considered significant with *p* values <0.05.