



Supplementary Figure 4. MPTP-induced α -synuclein oligomer. **a** Filter trap soluble- α -synuclein oligomer species assay from ventral midbrain of WT and GBA^{+/L444P} mice with or without MPTP. Error bars represent the mean \pm S.E.M. (n = four mice per group). Two-way ANOVA was used for statistical analysis followed by *post-hoc* Bonferroni test for multiple group comparison. *** $P < 0.001$ vs. MPTP-treated WT. N.D: not detection. **b** Filter trap insoluble- α -synuclein filament species assay from ventral midbrain of WT and GBA^{+/L444P} mice with or without MPTP. α -Synuclein preformed fibril (PFF) is positive control.