**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 ± 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.