

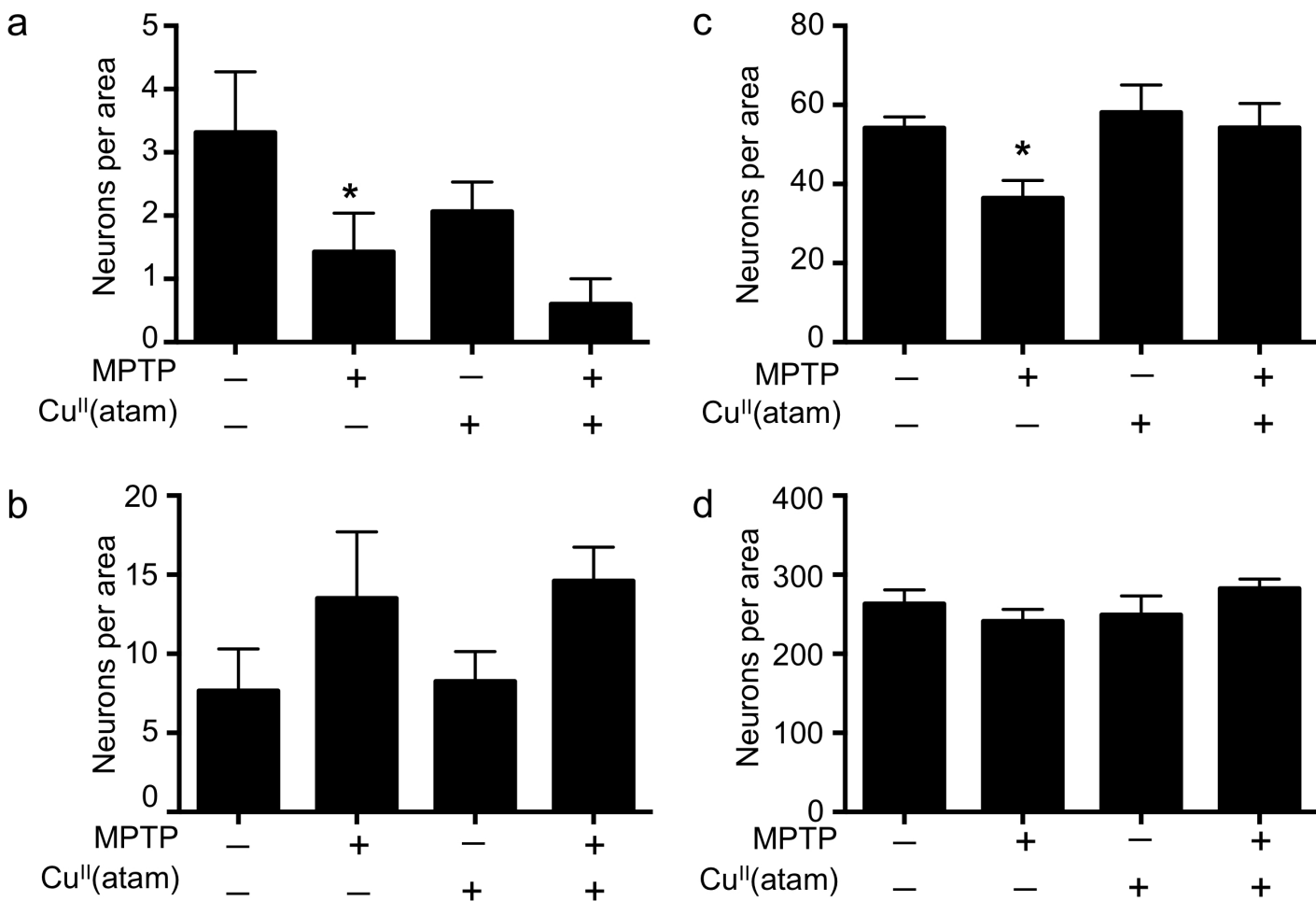
## Supplementary Figures

Restoration of intestinal function in an MPTP model of Parkinson's Disease.

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### Supplementary Figure S1

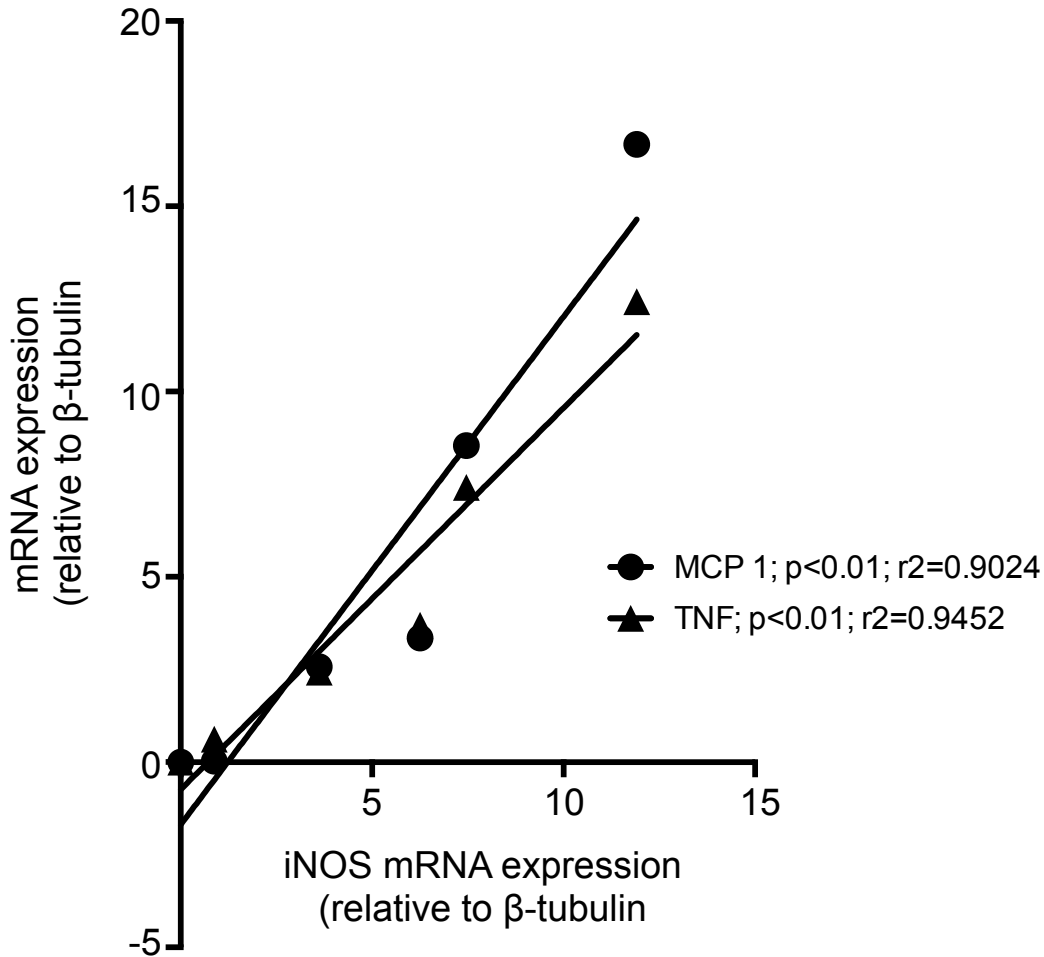
Neuronal subpopulations in wholemount preparations of ileum from MPTP lesioned and Cu<sup>II</sup>(atam) treated mice.



TH-IR in the MP (a) and SMP (b), NFM-IR in the MP (c) and nNOS-IR in the MP (d) of mice lesioned with MPTP and treated with Cu<sup>II</sup>(atam) are shown as number of neurons per area. \*p<0.05 compared with untreated (Saline/SSV) using one-way ANOVA with Dunnett's multiple comparison test (n≥5, mean ± sem).

## Supplementary Figure S2

Correlation of pro-inflammatory marker expression in the ileum of MPTP-lesioned mice.



Analysis of the relative pro-inflammatory molecule expression indicated that there was a significant correlation between the expression of iNOS mRNA per mouse relative to pro-inflammatory markers MCP1 and TNF.