

Supplementary file-

Table S1. Linear regression analysis in idiopathic Parkinson's disease (iPD) patients to show association between blood GATA3 expression and PD associated clinical variable.

Clinical variable	Coefficient	95% CI	<i>p</i> Value
Lymphocyte count	0.311	0.210 to 0.412	<0.001
Hoehn and Yahr Stages	-0.108	-0.169 to -0.048	<0.001
PDSS	0.153	0.037 to 0.269	0.010
UPDRS Part I	-0.150	-0.274 to -0.026	0.018
SCOPA-AUT	-0.109	-0.230 to 0.012	0.077
UPDRS Part II	-0.142	-0.303 to 0.018	0.082
REM	-0.097	-0.211 to 0.017	0.094
Sniffin' Sticks score	0.117	-0.030 to 0.264	0.119
UPDRS Part III	-0.111	-0.288 to 0.066	0.219
Disease duration	-0.108	-0.287 to 0.071	0.234
BDI	-0.059	-0.176 to 0.057	0.316
MoCA	0.048	-0.053 to 0.150	0.350
LEDD	-0.079	-0.258 to 0.100	0.386
UPDRS Part IV	-0.055	-0.181 to 0.072	0.397

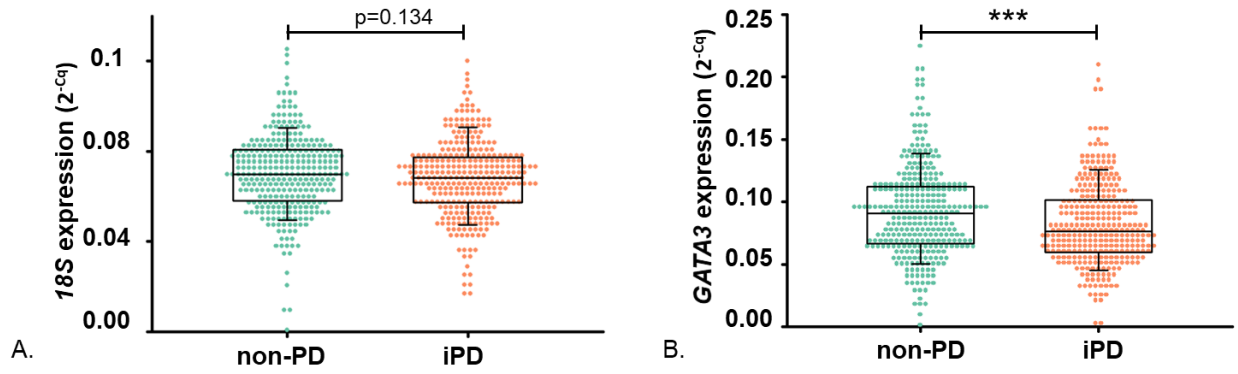


Figure S1. Raw expression levels of 18S and *GATA3*. A) Expression levels of 18S were comparable between non-PD controls and idiopathic Parkinson's disease (iPD) and B) Expression levels of *GATA3* mRNA were downregulated in iPD compared to non-PD controls. *** $p \leq 0.001$; Mann-Whitney Rank Sum Test.