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CORRECTION

Correction to: Molecular mechanism of olesoxime-mediated neuroprotection through targeting α-synuclein interaction with mitochondrial VDAC

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In the published article, an error was noticed and this has been corrected with this erratum publication.

The correct Fig. 3 is as follows:

The original article can be found online at https://doi.org/10.1007/s00018-019-03386-w.

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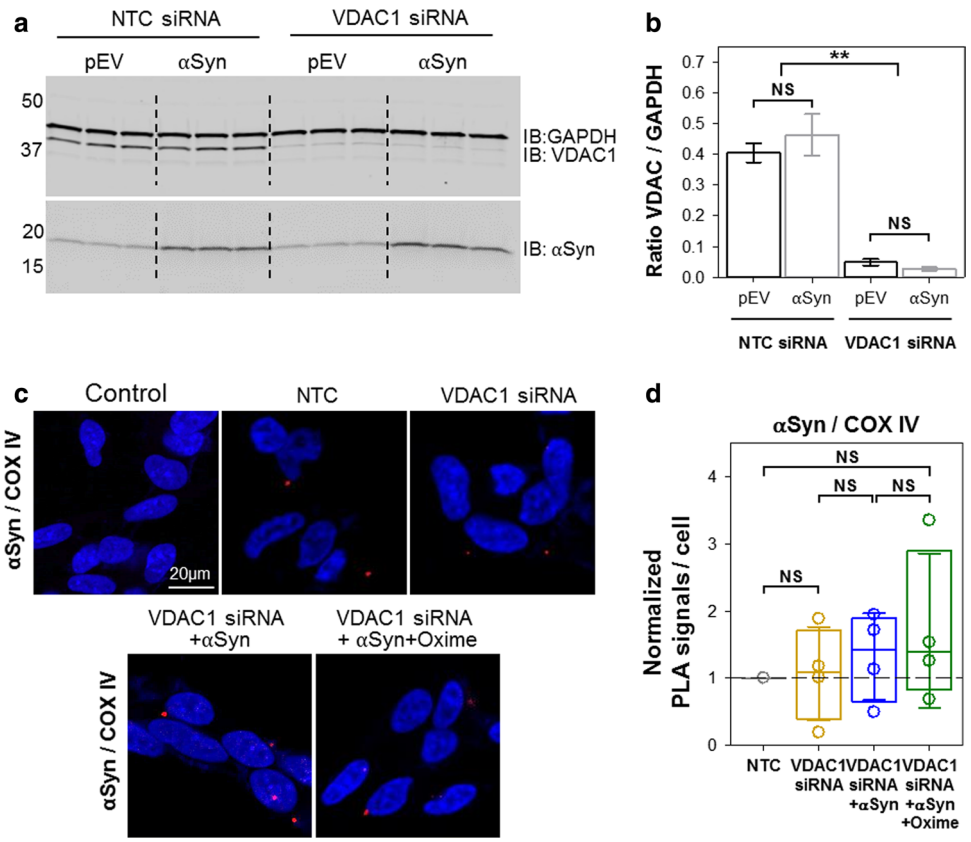

Fig. 3 αSyn co-localization with COX IV at the inner membrane is lost upon downregulation of VDAC1 expression. **a** Western blot of VDAC1 protein levels in differentiated SH-SY5Y cells transfected with a non-targeting sequence (NTC) siRNA or VDAC1–siRNA. GAPDH was used as a loading control and maintenance of αSyn overexpression under these conditions has been validated. **b** Quantification of the Western blot analysis as intensity ratios of VDAC1/GAPDH. Data are presented as mean ± SD ($n = 3$). In VDAC1–siRNA cells, the VDAC1/GAPDH ratio is significantly less than in NTC control. **c** Representative confocal images of PLA of VDAC1 and COX IV co-localization in controls and cells depleted of VDAC1, overexpressing αSyn alone or treated with olesoxime. The nuclei are stained in blue (DAPI) (×63 objective, scale bar 20 μm). **d** Box plot represents the normalized distribution of PLA signals per cell, obtained from an average of 180 cells per experiment with a minimum of 60. The PLA signals were normalized to averaged PLA value measured in the NTC control cells of the corresponding experiment. The dashed line indicates a normalized PLA signal in NTC cells. Error bars indicate SD. At least 3 independent experiments were performed for each pairwise of antibodies. In **b**, **d**, $^{**}p < 0.01$; NS (not significant): $p \geq 0.2$; one-way ANOVA