

CORRECTION

Correction: Loss of β -Glucocerebrosidase Activity Does Not Affect Alpha-Synuclein Levels or Lysosomal Function in Neuronal Cells

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Following the publication of this article [1] concerns were raised regarding the β -actin blot presented in Fig 6A. Horizontal discontinuities and repetitive elements were detected in the background directly below the bands representing β -actin signal. The original β -actin blot presented additional bands underneath the β -actin results visible in lanes 1–3, and 6–9, which were removed from the panel to improve the clarity of the presented blot, and only the top bands were used for quantification. The removing of the bands beneath the β -actin results contravenes PLOS ONE’s figure preparation guidelines, instead the lower bands should have been included in the published panel, and the text should have commented on the inconsistency.

This Correction notice is issued to update the Fig 6 results to ensure the experimental data are presented in accordance with the journal’s figure guidelines. The original blots underlying

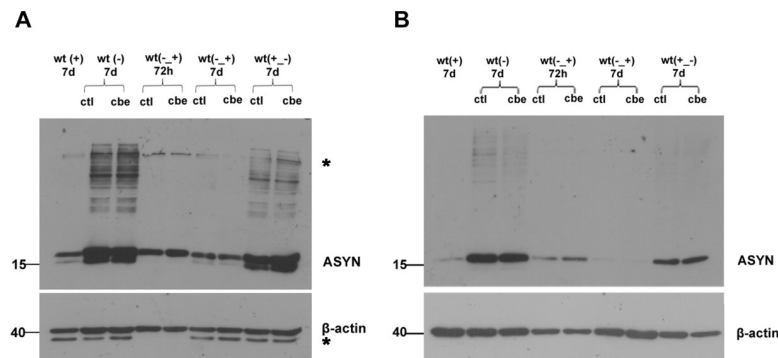


Fig 6. GCase inhibition does not affect ASYN-specific HMW species in differentiated WT ASYN cells. A stable inducible Tet-Off SH-SY5Y neuroblastoma cell line overexpressing WT ASYN was used in this assay. Initially cells were cultured in the presence (+) or absence (-) of dox (2 μ g/mL) for 7 days. Subsequently cells were differentiated for 5 days and then were exposed to CBE (200 μ M) at different conditions. Untreated cells were also used (ctl). WT (+) 7 d: differentiated WT ASYN cells expressing basal levels of ASYN in the presence of dox for 7 days, WT (-) 7 d: differentiated WT ASYN overexpressing cells in the absence of dox, treated with CBE, or not (ctl) for 7 days. WT (-_+) 72 h: differentiated WT ASYN overexpressing cells were switched to +dox conditions for 72 h along with the presence or not of CBE, WT (-_+) 7 d: differentiated WT ASYN overexpressing cells were switched to +dox conditions for 7 days, along with the presence or not of CBE. WT (+_ -) 7 d: differentiated WT ASYN cells expressing basal levels of ASYN were switched to -dox conditions for 7 days, along with the presence or not of CBE. Cell lysates were separated with SDS-PAGE and immunoblotted with the C-20 polyclonal antibody to ASYN. β -actin = loading control. At no condition was there any difference in the presence or relative amount of ASYN monomers or ASYN-specific High Molecular Weight (HMW) species between the CBE and control-treated cells in the cytosol (A) and the membrane-associated, Triton X-100 soluble fraction (B) respectively. A doublet that is also present in the +dox conditions for ASYN represents non-specific immunolabeling (designated with an asterisk); An extra band below β -actin most probably represents a post-translational modification or other actin isoforms (designated with an asterisk).

<https://doi.org/10.1371/journal.pone.0252975.g001>

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Citation: Dermentzaki G, Dimitriou E, Xilouri M, Michelakakis H, Stefanis L (2021) Correction: Loss of β -Glucocerebrosidase Activity Does Not Affect Alpha-Synuclein Levels or Lysosomal Function in Neuronal Cells. PLoS ONE 16(6): e0252975. <https://doi.org/10.1371/journal.pone.0252975>

Published: June 4, 2021

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the panels presented in [Fig 6](#) are provided in the Supporting Information files [S1–S4](#) Files. The raw data underlying all other results reported in the article are available upon request.

Supporting information

S1 File. Original blot underlying [Fig 6](#) Cytosol ASYN.

(BMP)

S2 File. Original blot underlying [Fig 6](#) Cytosol β -actin.

(TIF)

S3 File. Original blot underlying [Fig 6](#) TX-100 Soluble ASYN.

(BMP)

S4 File. Original blot underlying [Fig 6](#) TX-100 Soluble β -actin.

(TIF)

Reference

1. Dermentzaki G, Dimitriou E, Xilouri M, Michelakakis H, Stefanis L (2013) Loss of β -Glucocerebrosidase Activity Does Not Affect Alpha-Synuclein Levels or Lysosomal Function in Neuronal Cells. *PLoS ONE* 8(4): e60674. <https://doi.org/10.1371/journal.pone.0060674> PMID: 23580063