

Supplemental Data

Amyloid- β_{1-42} Induces Reactive Oxygen Species-Mediated Autophagic Cell Death in U87 and SH-SY5Y Cells

Hongmei Wang^{a,b,1}, Jianfang Ma^{a,1}, Yuyan Tan^{a,b}, Zhiqian Wang^b, Chengyu Sheng^b,
Shengdi Chen^{a,b,*} and Jianqing Ding^{a,b,*}

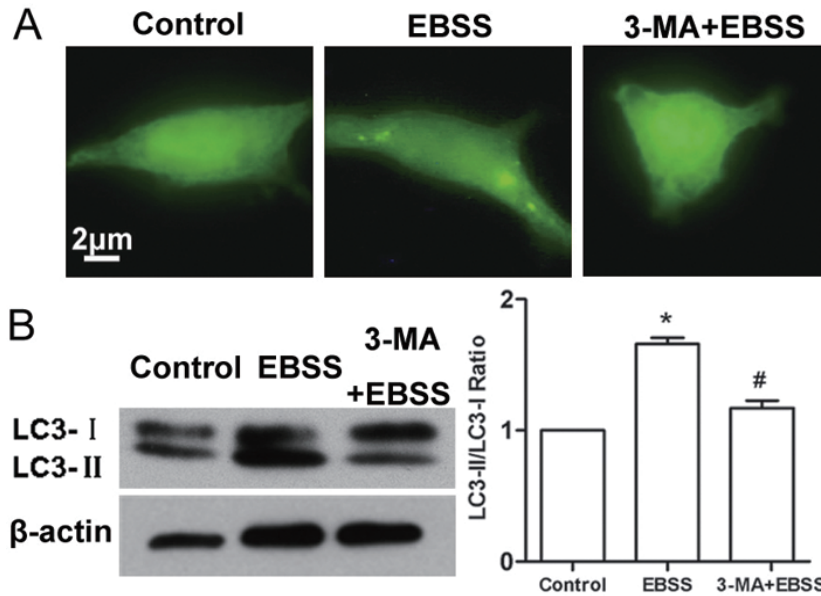
^a*Department of Neurology & Institute of Neurology, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, P.R. China*

^b*Lab of Neurodegenerative Diseases & key Laboratory of Stem Cell Biology, Institute of Health Science, Shanghai Institutes for Biological Sciences (SIBS), Chinese Academy of Sciences (CAS) & Shanghai Jiao Tong University School of Medicine, Shanghai, P.R. China*

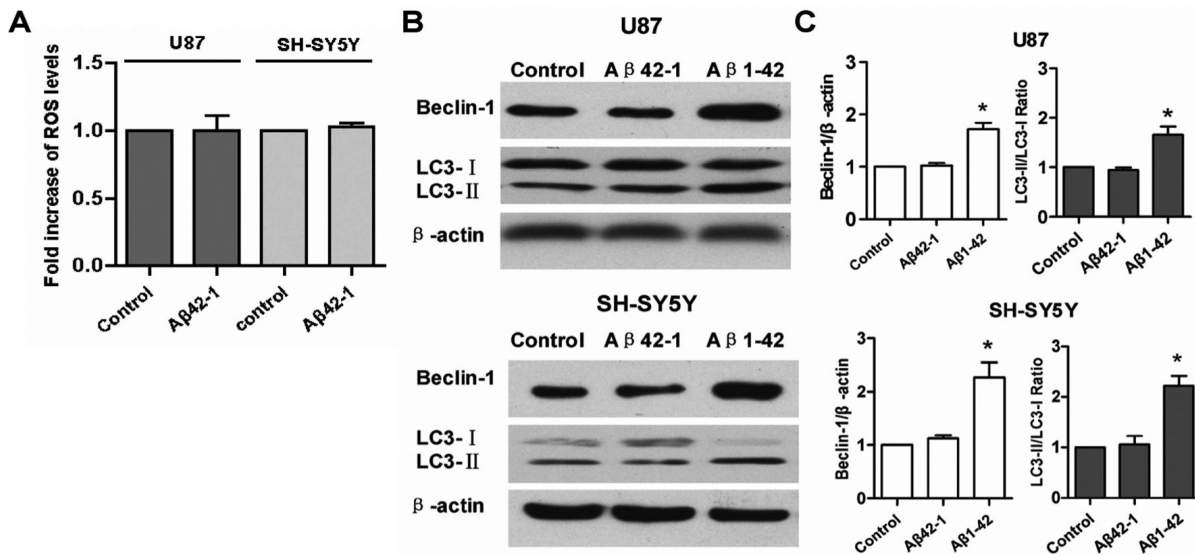
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¹Authors contributed equally to this work.

*Correspondence to: Shengdi Chen and Jianqing Ding, Department of Neurology and Institute of Neurology, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, People's Republic of China. Tel./Fax: +86 21 64457249; E-mail: jqding18@yahoo.com (Jian-qing Ding), chen_sd@medmail.com.cn (Sheng-di Chen).



Supplementary Figure 1. Starvation induced autophagy. A) U87 cells were transiently transfected with GFP-LC3 and then starved in EBSS for 24 h or preincubated with 3-MA (1 mM) for 2 h followed by starvation in EBSS for 24 h. Scale bar, 2 μ m. B) U87 cells were starved in EBSS for 24 h or preincubated with 3-MA (1 mM) for 2 h followed by starvation in EBSS for 24 h. The conversion of LC3-I into LC3-II was then analyzed by immunoblotting with anti-LC3 antibodies. The results of three independent experiments were expressed as mean \pm SEM * p < 0.05 compared with control; # p < 0.05 compared with EBSS-treated cells. (Colours are visible in the electronic version of the article at www.iospress.nl.)



Supplementary Figure 2. A β ₄₂₋₁ did not induced ROS and autophagy in U87 and SH-SY5Y cells. A) Cells were untreated or treated with A β ₄₂₋₁ (20 μ M) for 48 h. ROS generation was assayed using a fluorescence spectrometer. The results of three independent experiments were expressed as mean \pm SEM. There was no significant difference of ROS production between two groups. B) Cells were untreated or subjected to A β ₄₂₋₁ (20 μ M) or A β ₁₋₄₂ (20 μ M) treatment for 48 h. Beclin-1 expression and conversion of LC3-I to LC3-II were determined by western blotting after various treatments. β -actin was used as a loading control. C) Quantitation of western-blotting analysis. The results of three independent experiments are expressed as mean \pm SEM * p < 0.05 compared with control.