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Supplementary Data

Endogenous Galanin Protects Mouse Hippocampal Neurons Against Amyloid Toxicity *in vitro* via Activation of Galanin Receptor-2

Caroline R. Elliott-Hunt[a], Fiona E. Holmes[a], Dean M. Hartley[b], Sylvia Perez[b], Elliott J. Mufson[b,*] and David Wynick[a,*]
[a]*Schools of Physiology and Pharmacology and Clinical Sciences, University of Bristol, Bristol, UK*
[b]*Department of Neurological Sciences, Rush University Medical Center, Chicago University, Chicago, IL, USA*

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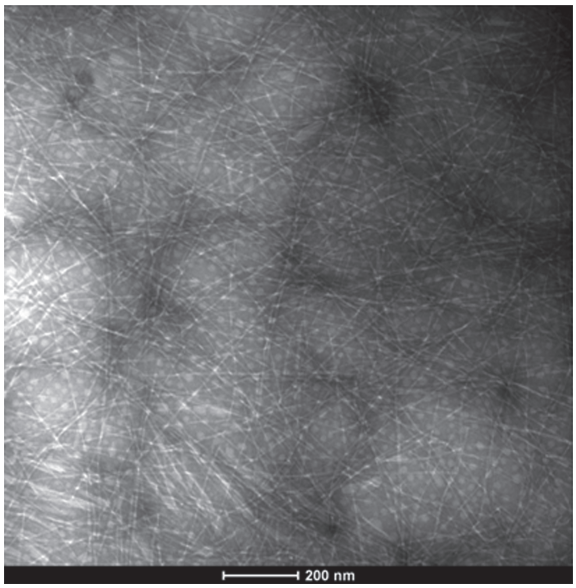

Supplementary Figure 1. Preparations of Aβ $_{1\text{-}42}$ were analyzed by electron microscopy. Incubation of Aβ $_{1\text{-}42}$ at 37ºC for 48 h in PBS produced a population that was predominantly 5–10 nm fibrils (Bar 200 nm).

*Correspondence to: David Wynick, Medical Sciences Building, University Walk, Bristol BS8 1 TD, UK. Fax: 44 117 3312288; E-mail: d.wynick@bris.ac.uk and Elliott Mufson, Department of Neurological Sciences, Rush University Medical Center, 1735 West Harrison Street, Suite 300, Chicago, IL 60612, USA. Fax: 00101312 563 3571; E-mail: emufson@rush.edu.

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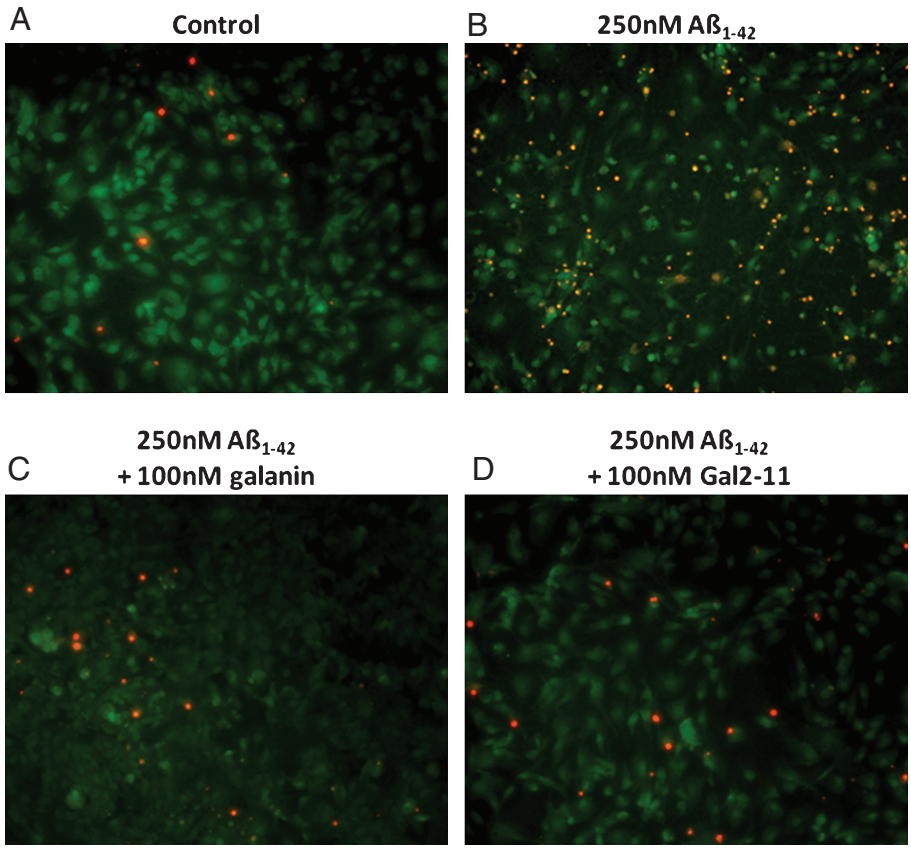

Supplementary Figure 2. Representative images of live (green) and dead (red) hippocampal neurons from WT (129OlaHsd) mice. A) Control with culture medium alone, (B) 48 h after exposure to 250 nM $fA\beta_{1\text{-}42}$, (C) 250 nM $fA\beta_{1\text{-}42}$ in the presence of 100 nM galanin, and (D) 250 nM $fA\beta_{1\text{-}42}$ in the presence of 100 nM Gal2-11. A marked reduction in the amount of cell death was observed in galanin and Gal2-11 treated cultures (see Fig. 3A for quantification).