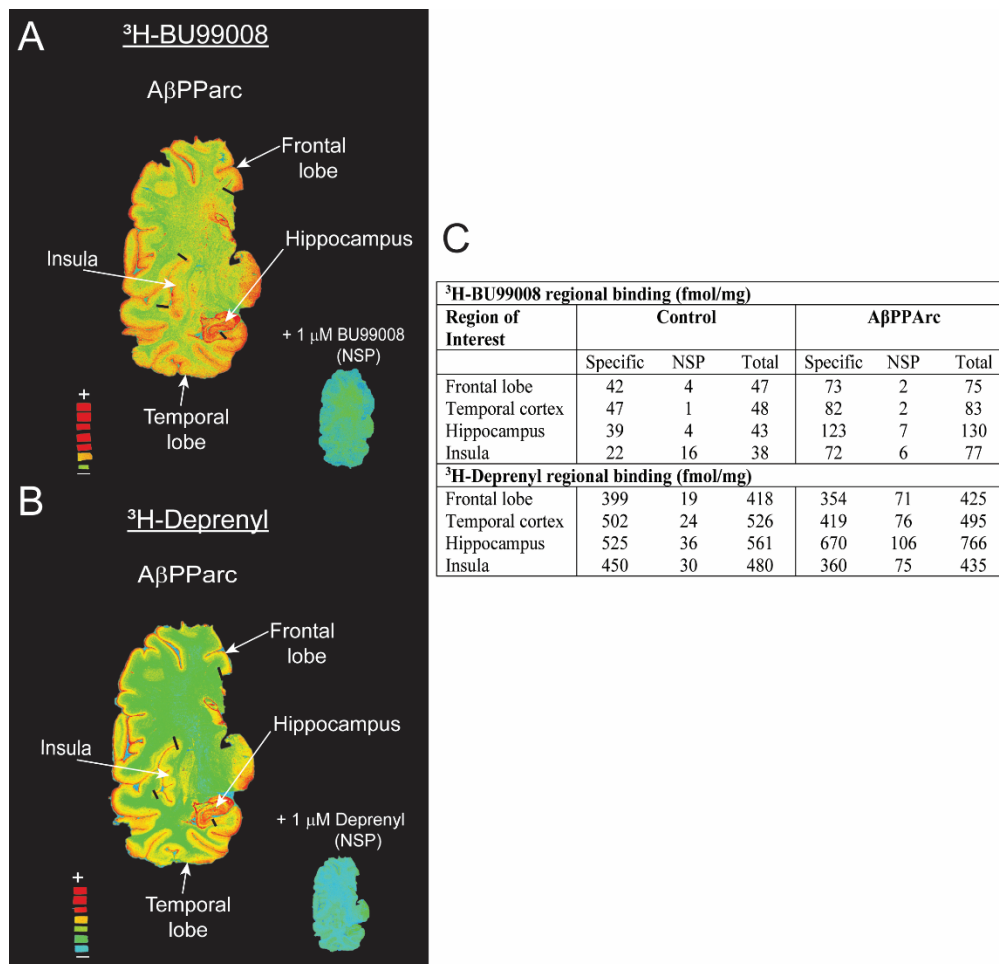




Supplementary Fig. 1. $^3\text{H-BU99008}$ and $^3\text{H-Deprenyl}$ autoradiography comparative studies on large frozen postmortem brain sections from Arctic amyloid- β protein precursor (A β PPArc) case.

The figure shows the total binding of 1 nM $^3\text{H-BU99008}$ and 10 nM $^3\text{H-Deprenyl}$ along with non-specific (NSP) binding in the presence of 1 μM unlabelled BU99008 and Deprenyl in different brain regions of A β PPArc case. Autoradiography images of $^3\text{H-BU99008}$ (Standards: + = 3407-3580 fmol/mg, – = 58 fmol/mg) and $^3\text{H-Deprenyl}$ (Standards: + = 3349-4740 fmol/mg, – = 54-77 fmol/mg) were set on the color/brightness threshold levels of 44,461 (A) and 52,428 (B), respectively, from the raw images (16 bits: 0-65,535 (color scale)) for comparison with **Fig. 7**. (C) Regions of interest as shown in the figures were drawn manually to calculate the specific, non-specific and total binding values in fmol/mg. The regional binding

values in different region of interest for both control and *AβPPArc* cases for comparison are presented here. Frontal and temporal lobe regions were marked with dark black bars. ³H-Deprenyl autoradiography image for *AβPPArc* case was adapted from Lemoine et al. 2020 (37).

NSP- Non-specific binding