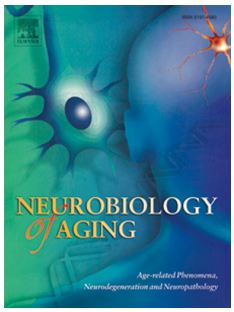
Accepted Manuscript



Alterations of functional circuitry in aging brain and the impact of mutated APP expression

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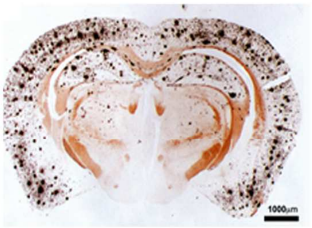
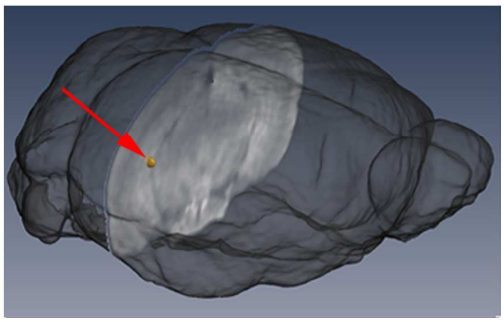
A. Aβ accumulates during aging.



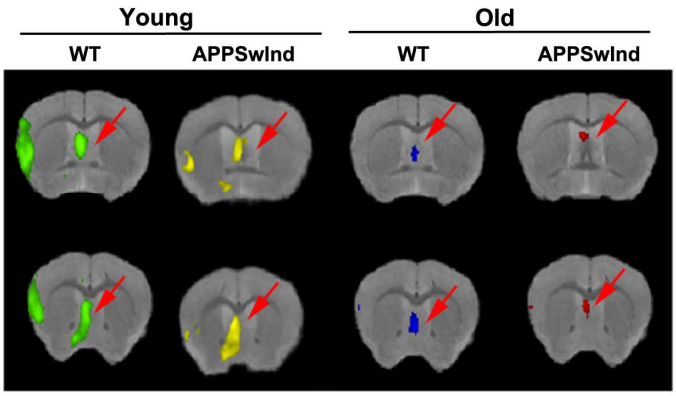
Young APPSwInd

Old APPSwInd

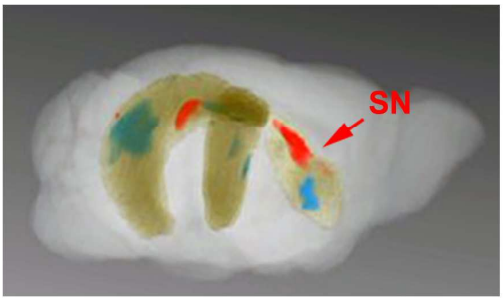
B. Mn^{2+} injected into CA3 of the right hippocampus in an MR image.



C. Mn^{2+} transports to septal nuclei (arrows) differently in young versus old mice.



D. Mn^{2+} accumulates differently in septal nuclei (SN) of old mice: WT (blue) and APPSwInd (red).



See Supplemental Video.