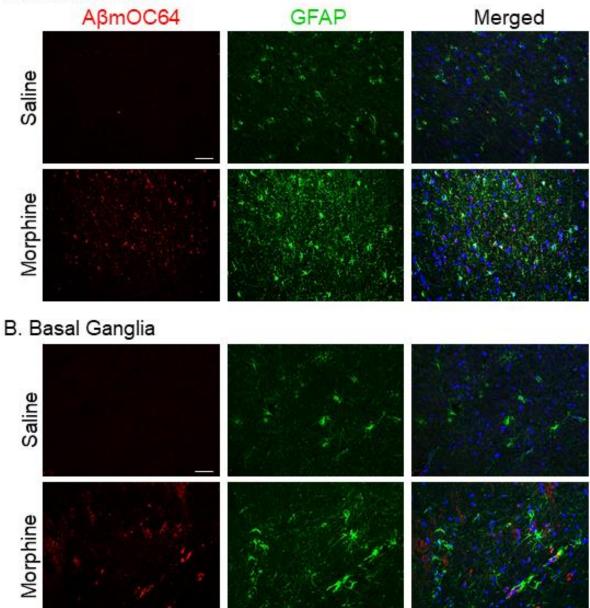
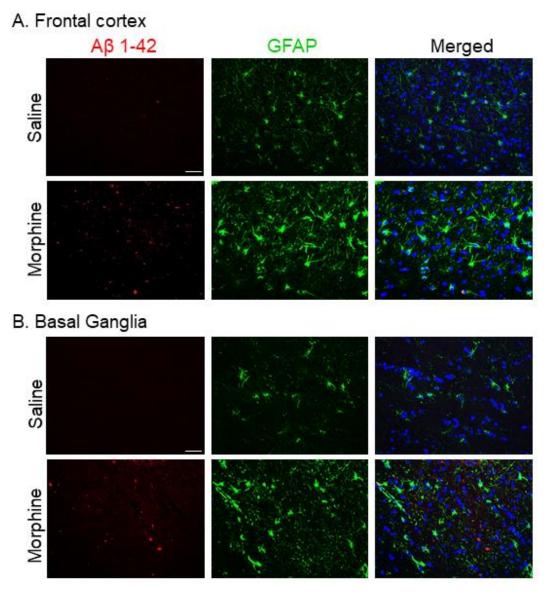
Astrocytes & Astrocyte derived Extracellular Vesicles in Morphine Induced Amyloidopathy: Implications for Cognitive Deficits in Opiate Abusers

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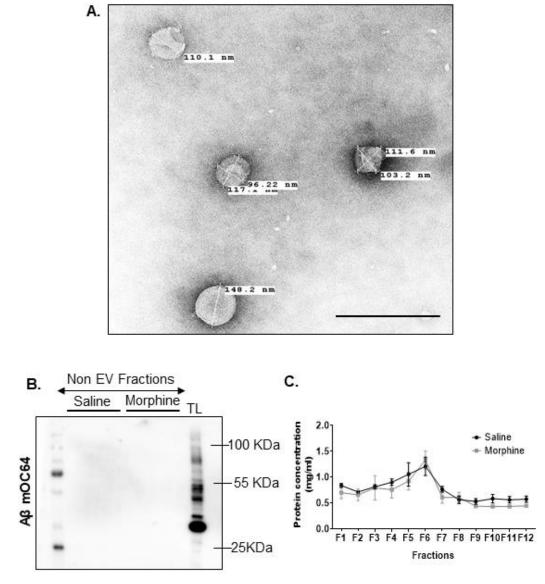
A. Frontal cortex



Supplementary Figure 1. Expression of A β mOC64 in the FC and BG of morphine-dependent macaques. Representative immunohistochemistry photomicrographs showing differential expression of A β mOC64 protein in GFAP+ astrocytes in morphine dependent macaque FCs (A) and BGs (B). Scale bar, 10 µm. *n*= 4 macaques/ group. Abbreviations: A β - amyloid beta, GFAP- glial fibrillary protein.



Supplementary Figure 2. Expression of A β 1-42 in the FC of morphine-dependent macaques. Representative immunohistochemistry photomicrographs showing differential expression of A β mOC64 protein in GFAP+ astrocytes in morphine dependent macaque FCs (A) and BGs (B). Scale bar, 10 µm. *n*= 4 macaques/ group. Abbreviations: A β -amyloid beta, GFAP- glial fibrillary acidic protein.



Supplementary Figure 3. Chracterization of brain-derived EVs from macaques. (A) Topographic profiling of F4-F7 EVs using transmission electron microscopy (TEM) under tapping mode revealed a heterogeneous population of spherical particles. (B) Representative western blot images for A β m0C64 from non-EV fractions from saline and morphine dependent macaques. (C) Protein concentration in EVs from F1-F12 assessed by ZetaView. *n*= 4 macaques/ group.