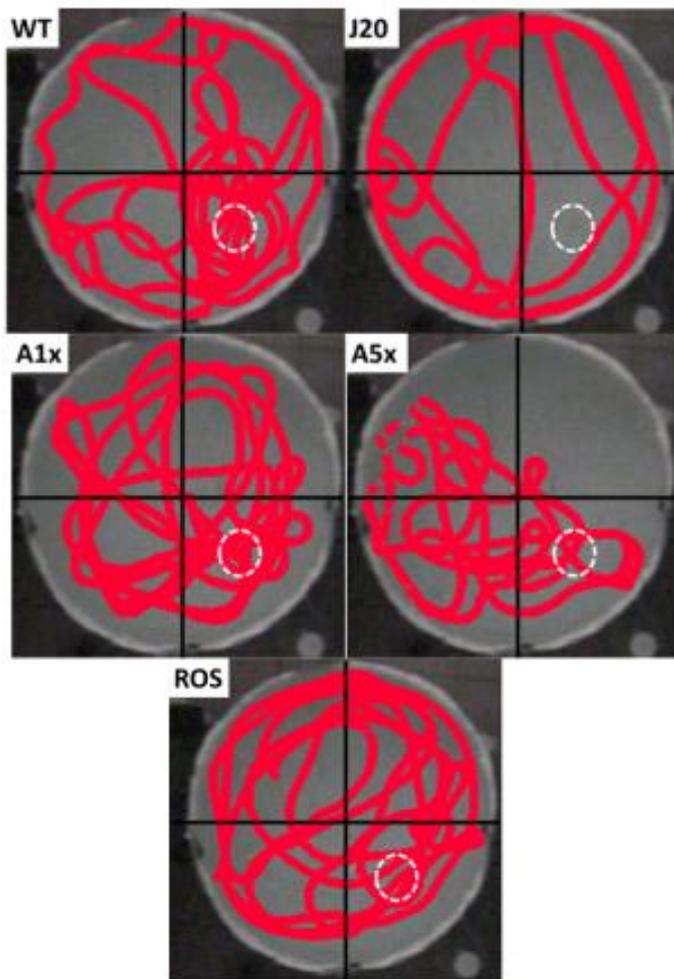


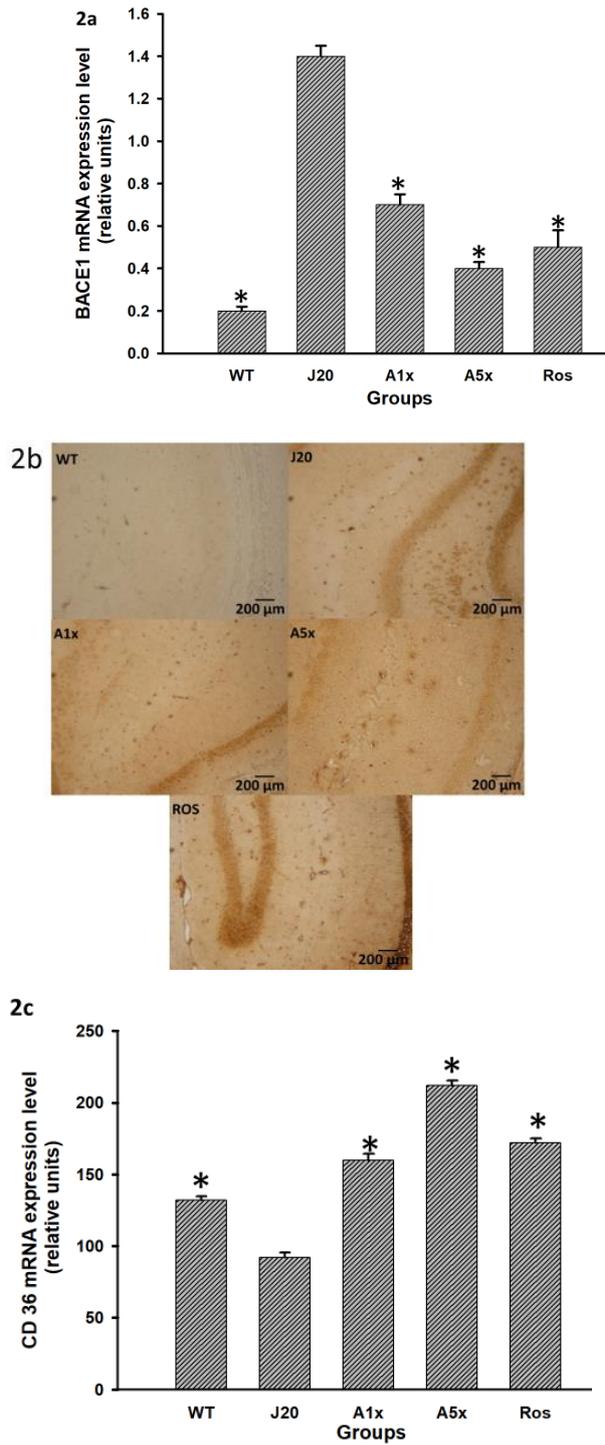
The following primer sequences were used for quantitative polymerase chain reaction (qPCR): β -actin, forward 5' -CCTGACAGACTACCTCATGAAG-3' , and reverse 5' -CCATCTCTTGCTCGAAGTCTAG-3' ; CD36, forward 5' -GAACCACTGCTTTCAAAAAGTGG-3' , and reverse 5' -TGCTGTTCTTTGCCACGTCA-3' ; BACE1, forward 5' -CCGGCGGGAGTGGTATTATGAAGT-3' , and reverse 5' -GATGGTGATGCGGAAGGACTGATT-3' . APP IHC Stain primary antibody (polyclonal rabbit anti- β amyloid precursor antibody, LS-B1462, LSBio, Seattle, WA, USA),

Figure captions



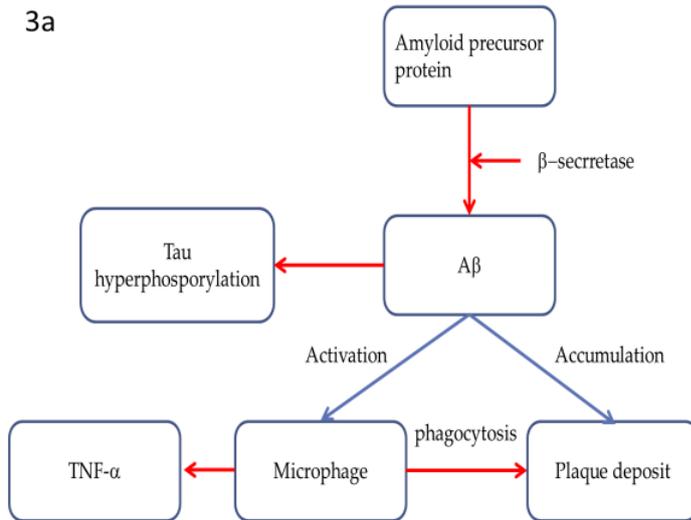
Supplementary Figure S1. Effects of MPFP on the swimming tracks of J20 mice in the water maze probe test.

¹Abbreviations for each group are shown in Figure 1. Each value is expressed as a mean \pm SD (n = 6).*: p < 0.05 versus J20 group.



Supplementary Figure S2. Effects of MPFP on AD pathology in the hippocampus of J20 mice. (a) BACE1 mRNA expression level. (b) APP expression levels were determined using immunohistochemical staining. (c) CD36 mRNA expression levels were also determined as per the methods. ¹Abbreviations for each group are as in Figure 1. Each value is expressed as a mean \pm SD (n = 6).*: p < 0.05 versus J20 group.

3a



Supplementary Figure S3. The red lines indicate the possible mechanism of *Monascus purpureus* fermented product ameliorating Alzheimer's disease