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#### Research report

Physical Exercise Reserved Amyloid-beta Induced Brain Dysfunctions by Regulating Hippocampal Neurogenesis and Inflammatory Response via MAPK Signaling

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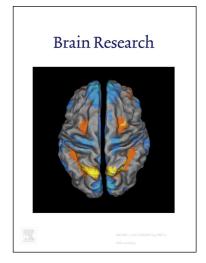
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## ACCEPTED MANUSCRIPT

#### The proposed Journal section: Neurobiology of Disease

Physical Exercise Reserved Amyloid-beta Induced Brain Dysfunctions by Regulating Hippocampal Neurogenesis and Inflammatory Response via MAPK Signaling

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Running title: Exercise prevented neurodegeneration

### Abbreviations

Aβ: amyloid beta; BrdU: bromodeoxyuridine; SGZ: subgranular zone; GFAP: glial fibrillary acidic protein; MAPK: mitogen-activated protein kinase; NSPCs: neural stem/progenitor cells

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