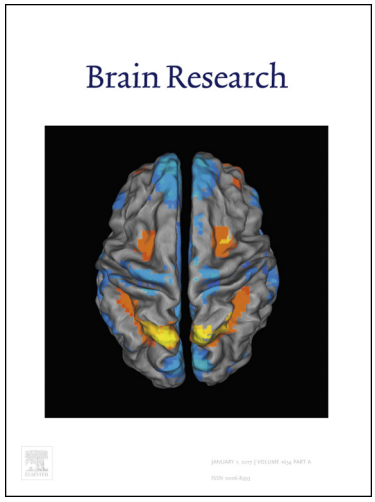

Research report

Hydrogen exerts neuroprotective effects on OGD/R damaged neurons in rat hippocampal by protecting mitochondrial function via regulating mitophagy mediated by PINK1/Parkin signaling pathway

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Hydrogen exerts neuroprotective effects on OGD/R damaged neurons in rat hippocampal by protecting mitochondrial function via regulating mitophagy mediated by PINK1/Parkin signaling pathway

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Conflict of interest: The authors have declared that no conflict of interest exists.

Short Title: Hydrogen exerts neuroprotective effects on OGD/R neurons via regulating mitophagy

ABBREVIATIONS----IRI, ischemia/reperfusion injury; OGD/R, oxygen-glucose deprivation/reoxygenation; H2, hydrogen; RAP, rapamycin; 3-MA, 3-methyladeni ne; MTT, 3-(4,5-di-methylthiazol-2-yl)-2,5-diphenyltetrazolium bromide; ROS, re active oxygen species; MMP, mitochondrial membrane potential; MPTP, Mitoch ondrial permeability transition pore; TOM20, translocase of outer mitochondrial membrane 20; LC3, microtubule-associated protein light chain 3; PINK1, PTE N-induced putative kinaseprotein 1.

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