

Accepted Manuscript

Research report

Glutathione peroxidase 4 participates in secondary brain injury through mediating ferroptosis in a rat model of intracerebral hemorrhage

Zhuwei Zhang, Yu Wu, Shuai Yuan, Peng Zhang, Juyi Zhang, Haiying Li, Xiang Li, Haitao Shen, Zhong Wang, Gang Chen

PII: S0006-8993(18)30469-4

DOI: <https://doi.org/10.1016/j.brainres.2018.09.012>

Reference: BRES 45944

To appear in: *Brain Research*

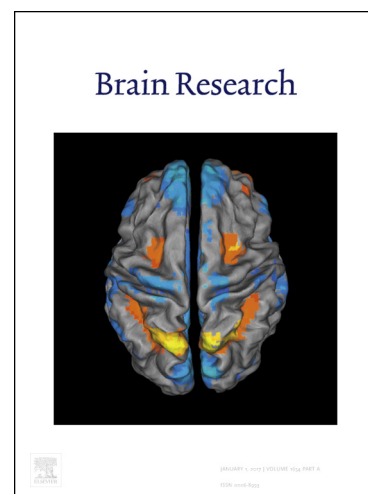
Received Date: 5 March 2018

Revised Date: 5 September 2018

Accepted Date: 7 September 2018

Please cite this article as: Z. Zhang, Y. Wu, S. Yuan, P. Zhang, J. Zhang, H. Li, X. Li, H. Shen, Z. Wang, G. Chen, Glutathione peroxidase 4 participates in secondary brain injury through mediating ferroptosis in a rat model of intracerebral hemorrhage, *Brain Research* (2018), doi: <https://doi.org/10.1016/j.brainres.2018.09.012>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Glutathione peroxidase 4 participates in secondary brain injury through mediating ferroptosis in a rat model of intracerebral hemorrhage

Zhuwei Zhang^{1#}, Yu Wu^{1#}, Shuai Yuan¹, Peng Zhang¹, Juyi Zhang¹, Haiying Li¹, Xiang Li¹, Haitao Shen^{1*}, Zhong Wang^{1*}, Gang Chen¹

¹ Department of Neurosurgery & Brain and Nerve Research Laboratory, The First Affiliated Hospital of Soochow University, Suzhou, Jiangsu Province, China

#These authors contributed equally to this work.

***Corresponding author:** Haitao Shen or Zhong Wang, Department of Neurosurgery, The First Affiliated Hospital of Soochow University, 188 Shizi Street, Suzhou 215006, China. E-mail: dagezi120@126.com.

Abbreviations:

GPX4: glutathione peroxidase 4

ICH: intracerebral hemorrhage

SBI: secondary brain injury

ROS: reactive oxygen species

SD: Sprague–Dawley

BBB: blood-brain barrier

CNS: central nervous system

SOD: superoxide dismutase

HO-1: hemeoxygenase-1

GST: glutathione-S-transferase

GSH: glutathione

NQO1: nicotinamide adenine dinucleotide phosphate quinone oxidoreductase-1

TRX: thioredoxin

RCD: regulated cell death

CSF: Cerebro-Spinal Fluid

Download English Version:

<https://daneshyari.com/en/article/9422670>

Download Persian Version:

<https://daneshyari.com/article/9422670>

[Daneshyari.com](https://daneshyari.com)