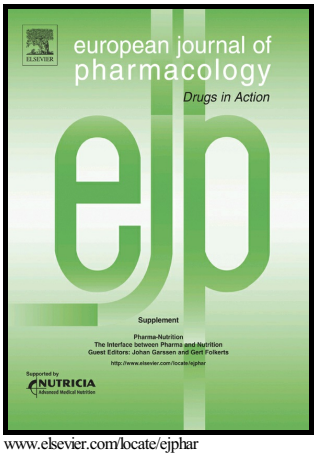

www.elsevier.com/locate/ejphar

Validation of a preclinical animal model to assess brain recovery after acute stroke

Peng Liu, Yong-Yong Tang, Xiao-Shuai Yang, Jie Dai, Min Yang, Hong Zhang, Yang Liu, Hong Yan, Xiu-Yun Song

PII: S0014-2999(18)30402-3
DOI: https://doi.org/10.1016/j.ejphar.2018.07.035
Reference: EJP71900

To appear in: *European Journal of Pharmacology*

Received date: 22 February 2018
Revised date: 19 July 2018
Accepted date: 19 July 2018

Cite this article as: Peng Liu, Yong-Yong Tang, Xiao-Shuai Yang, Jie Dai, Min Yang, Hong Zhang, Yang Liu, Hong Yan and Xiu-Yun Song, Validation of a preclinical animal model to assess brain recovery after acute stroke, *European Journal of Pharmacology,* https://doi.org/10.1016/j.ejphar.2018.07.035

Validation of a preclinical animal model to assess brain recovery after acute stroke

Peng Liu[a1], Yong-Yong Tang[a1], Xiao-Shuai Yang[a], Jie Dai[b], Min Yang[a], Hong Zhang[a], Yang Liu[a], Hong Yan[a], Xiu-Yun Song[a*]

[a]Beijing Yinfeng Dingcheng Biological Engineering Technology Limited Liability Company, Beijing 100176, China.

[b]Cangzhou Central Hospital, Hebei 061000, China.

[*]*Corresponding author. Xiu-Yun Song, Beijing Yinfeng Dingcheng Biological Engineering Technology Limited Liability Company, No. 14 Zhonghe road, Beijing, 100176, China. Tel.: +86 10 51029866.*

songxiuyun5678@163.com.

Abstract

This study was to validate the animal model for the research in the stage of recovery and sequela of ischemic stroke. For its recognized many advantages and widespread applications, middle cerebral artery occlusion / reperfusion (MCAO/R) in Male Sprague-Dawley rats was chosen to be the foundation model. Then the weight of rats (260-330g), the thread bolt type (2636/2838/3040/3043), the time of brain infarct (2/3h) were tested to choose the larger infarct volume, higher Longa's score and model success rate through Longa's score and TTC staining. Finally, optimum condition of model was used in long period

[1] *These authors contributed equally to the paper.*