

Accepted Manuscript

Title: Japanese encephalitis virus induces apoptosis by inhibiting Foxo signaling pathway

Authors: Fenglin Guo, Xilan Yu, Ahui Xu, Jing Xu, Qianruo Wang, Yunli Guo, Xiaoyu Wu, Yuxin Tang, Zhen Ding, Yanni Zhang, Tian Gong, Zishu Pan, Shanshan Li, Lingbao Kong



PII: S0378-1135(18)30046-4
DOI: <https://doi.org/10.1016/j.vetmic.2018.05.008>
Reference: VETMIC 7968

To appear in: *VETMIC*

Received date: 12-1-2018
Revised date: 15-5-2018
Accepted date: 17-5-2018

Please cite this article as: Guo F, Yu X, Xu A, Xu J, Wang Q, Guo Y, Wu X, Tang Y, Ding Z, Zhang Y, Gong T, Pan Z, Li S, Kong L, Japanese encephalitis virus induces apoptosis by inhibiting Foxo signaling pathway, *Veterinary Microbiology* (2018), <https://doi.org/10.1016/j.vetmic.2018.05.008>

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.

Japanese encephalitis virus induces apoptosis by inhibiting Foxo signaling pathway

Fenglin Guo¹, Xilan Yu², Ahui Xu¹, Jing Xu¹, Qianruo Wang¹, Yunli Guo¹, Xiaoyu Wu¹, Yuxin Tang³, Zhen Ding², Yanni Zhang⁴, Tian Gong⁴, Zishu Pan⁵, Shanshan Li^{2,*}, Lingbao Kong^{1,*}

¹ Institute of Pathogenic Microorganism and College of Bioscience and Engineering, Jiangxi Agricultural University, Nanchang, Jiangxi, China

² Hubei Key Laboratory of Industrial Biotechnology, College of Life Sciences, Hubei University, Wuhan, Hubei, China

³Key Laboratory for Animal Health of Jiangxi Province, Jiangxi Agricultural University, Nanchang, Jiangxi, China

⁴ Jiangxi Province Center for Disease Control and Prevention, Nanchang, Jiangxi, China

⁵ State Key Laboratory of Virology, College of Life Sciences, Wuhan University, Wuhan, Hubei, China.

* **Corresponding authors.** lingbaok@hotmail.com (LK), shl@hubu.edu.cn (SL)

Highlights

- Foxo expression is reduced by JEV infection in vitro and in vivo.
- Foxo inhibits JEV-induced apoptosis.
- Foxo exerts an anti-apoptotic function by Bcl-6 and p21 during JEV infection.
- JEV reduces Foxo expression, at least in part, by downregulating STAT3.

Download English Version:

<https://daneshyari.com/en/article/8505298>

Download Persian Version:

<https://daneshyari.com/article/8505298>

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