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Invitation to Review JMV-23-18795 for Journal of Medical Virology1 message

Zhengqiang Wang <onbehalf@manuscriptcentral.com>
Reply-To: wangx472@umn.edu
To: firzannainu@unhas.ac.id

Tue, Mar 14, 2023 at 6:56 PM

14-Mar-2023

Dear Dr. Nainu,

Manuscript JMV-23-18795 entitled "Andrographolide protects mice from influenza A induced-pneumonia via regulation of the PI3K/AKT signaling pathway" has been submitted for publication in the Journal of Medical Virology. I am writing to see whether you will be available to review this manuscript within two weeks.

I have attached the abstract of this manuscript at the end of this letter, along with the names of the authors. If you agree to review, please use the Invitation Response links below to record your response. You will then receive a second email confirming your assignment to review the manuscript along with instructions for using our online peer-review system.

If you are unable to review this paper, we would very much appreciate your suggestion of one or two possible alternative referees with expertise in this area.

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I look forward to your positive response soon.

Kind regards,

Dr. Zhengqiang Wang
Journal of Medical Virology
<https://mc.manuscriptcentral.com/jmv>

MANUSCRIPT DETAILS**TITLE:**

Andrographolide protects mice from influenza A induced-pneumonia via regulation of the PI3K/AKT signaling pathway

AUTHORS:

Yang, Wen; Wei, Zhenqiao; Sun, Zhen; Shi, Jingqi; He, Qi; Wang, Chenhui; Zhang, Xiaochang; Li, Qingyu; Gao, Rui; Qi, Dongmei; Wang, Xiaolong; Huang, Manqiong; Li, Wenqian; Jiao, Yuanyuan; Zhou, Zhe; Xing, Yaling; Wang, Shengqi

ABSTRACT:

Influenza A virus (IAV) infection causes a frenzied host response, which promotes acute lung inflammation. Andrographolide, an active component extracted from *Andrographis paniculate*, exerts significant inhibitive effects on acute inflammation induced by IAV. However, the molecular mechanism of the anti-inflammatory and antiviral effects remains poorly understood. Here, we found that andrographolide reduced mortality, alleviated body weight loss, and decreased lung index and inflammatory cytokines secretion rather than inhibiting viral replication. Further study with RNA-seq analysis revealed that the PI3K/AKT signaling pathway is significantly activated in the lungs of andrographolide-treated mice. The phosphorylated AKT and PI3K were significantly increased after andrographolide intervention by Western blot. Moreover, [pyroptosis]-related proteins, and downstream pathways of the PI3K/AKT signaling pathway, including cleaved-caspase 3 and GSDME-N, were decreased. The protective effect of andrographolide was significantly reduced after treatment with an AKT inhibitor. In summary, our findings suggested that andrographolide exerts a protective effect on IAV-induced [pneumonia] by activating the PI3K/AKT signaling pathway, which may represent a novel therapeutic strategy for IAV infection.

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FIRZAN NAINU

for serving as a reviewer for

Journal of Medical Virology

JOURNAL OF

MEDICAL VIROLOGY

Thank you for reviewing 1 manuscript in 2022

15 April 2023
Date

Shou-Jiang Gao
Editor-In-Chief