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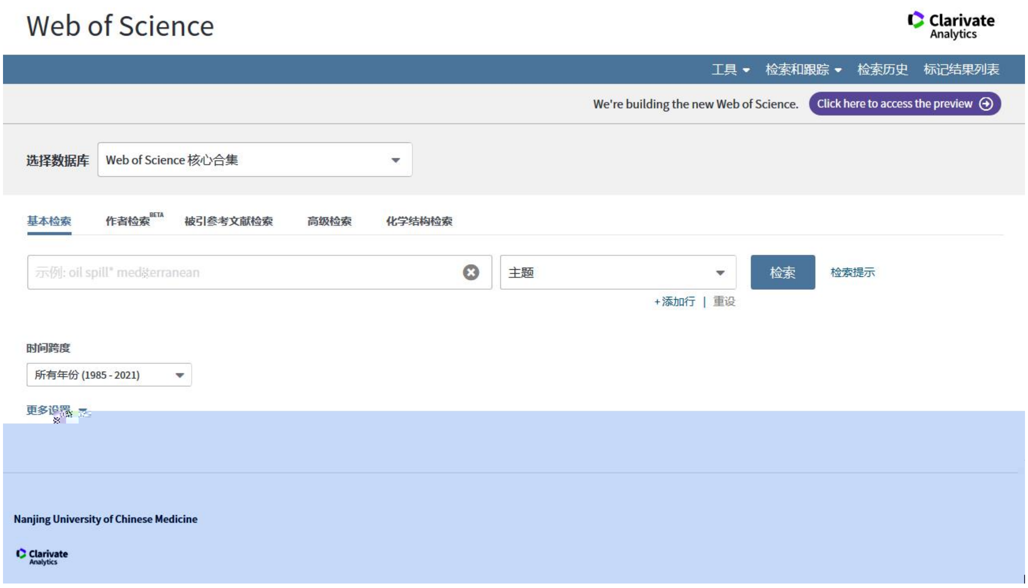

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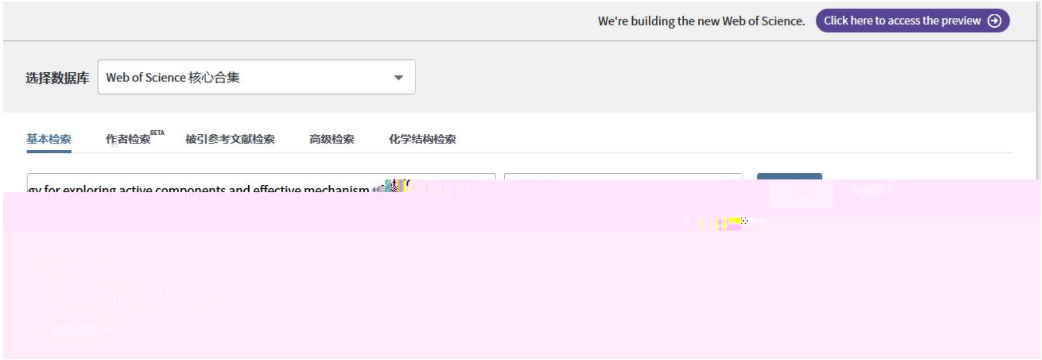

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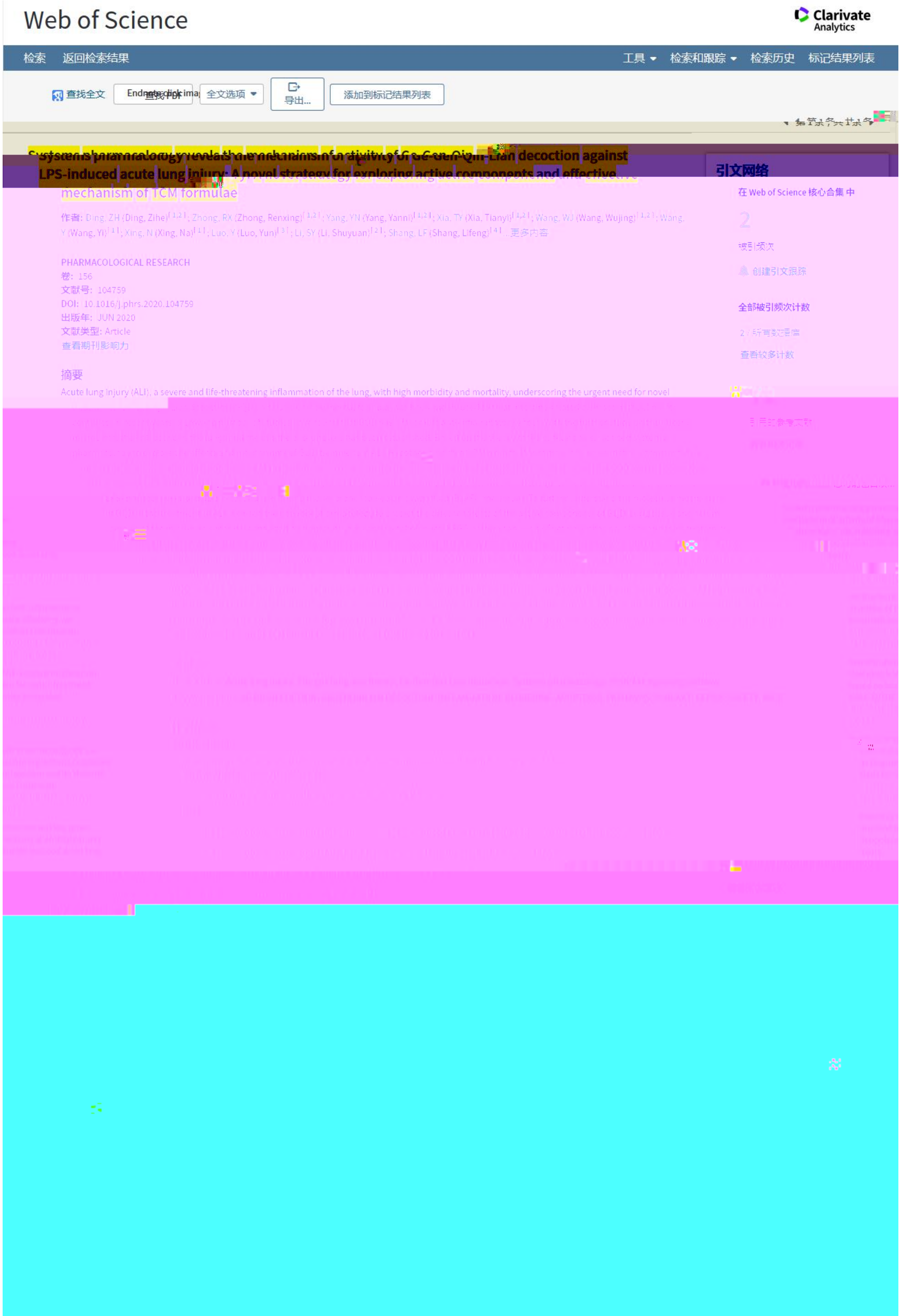

Systems pharmacology reveals the mechanism of activity of Ge-Gen-Qin-Lian decoction against LPS-induced acute lung injury: A novel strategy for exploring active components and effective mechanism of TCM formulae

作者: Ding, ZH (Ding, Zihe)[1,2]; Zhong, RX (Zhong, Renxing)[1,2]; Yang, YN (Yang, Yanni)[1,2]; Xia, TY (Xia, Tianyi)[1,2]; Wang, WJ (Wang, Wujing)[1,2]; Wang, Y (Wang, Yi)[1]; Xing, N (Xing, Na)[1]; Luo, Y (Luo, Yun)[3]; Li, SY (Li, Shuyuan)[2]; Shang, LF (Shang, Lifeng)[4] ...更多内容

PHARMACOLOGICAL RESEARCH
卷: 156
文献号: 104759
DOI: 10.1016/j.phrs.2020.104759
出版年: JUN 2020
文献类型: Article
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摘要

Acute lung injury (ALI), a severe and life-threatening inflammation of the lung, with high morbidity and mortality, underscoring the urgent need for novel

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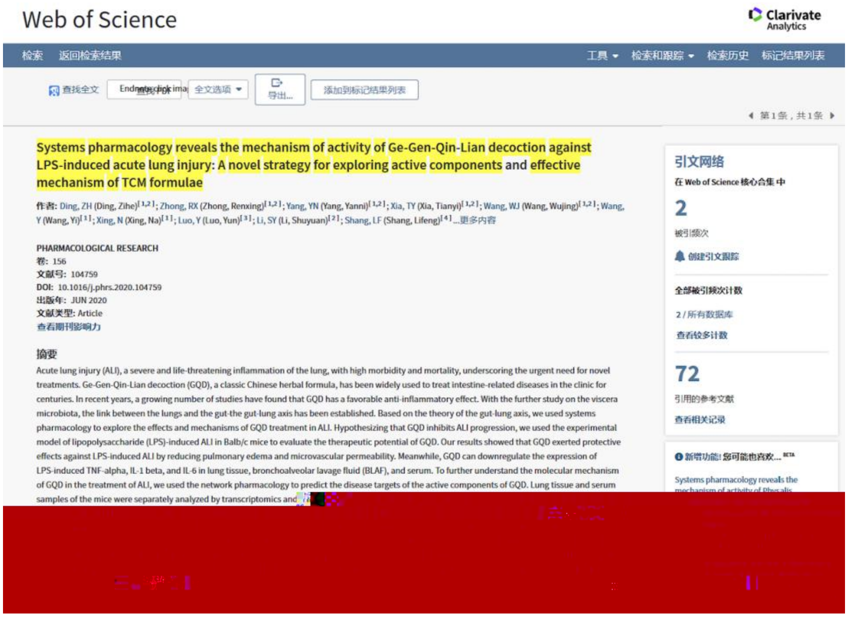

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摘要

Acute lung injury (ALI), a severe and life-threatening inflammation of the lung, with high morbidity and mortality, underscoring the urgent need for novel treatments. Ge-Gen-Qin-Lian decoction (GQD), a classic Chinese herbal formula, has been widely used to treat intestine-related diseases in the clinic for centuries. In recent years, a growing number of studies have found that GQD has a favorable anti-inflammatory effect. With the further study on the viscera microbiota, the link between the lungs and the gut-the gut-lung axis has been established. Based on the theory of the gut-lung axis, we used systems pharmacology to explore the effects and mechanisms of GQD treatment in ALI. Hypothesizing that GQD inhibits ALI progression, we used the experimental model of lipopolysaccharide (LPS)-induced ALI in Balb/c mice to evaluate the therapeutic potential of GQD. Our results showed that GQD exerted protective effects against LPS-induced ALI by reducing pulmonary edema and microvascular permeability. Meanwhile, GQD can downregulate the expression of LPS-induced TNF-alpha, IL-1 beta, and IL-6 in lung tissue, bronchoalveolar lavage fluid (BLAF), and serum. To further understand the molecular mechanism of GQD in the treatment of ALI, we used the network pharmacology to predict the disease targets of the active components of GQD. Lung tissue and serum samples of the mice were separately analyzed by transcriptomics and [illegible]

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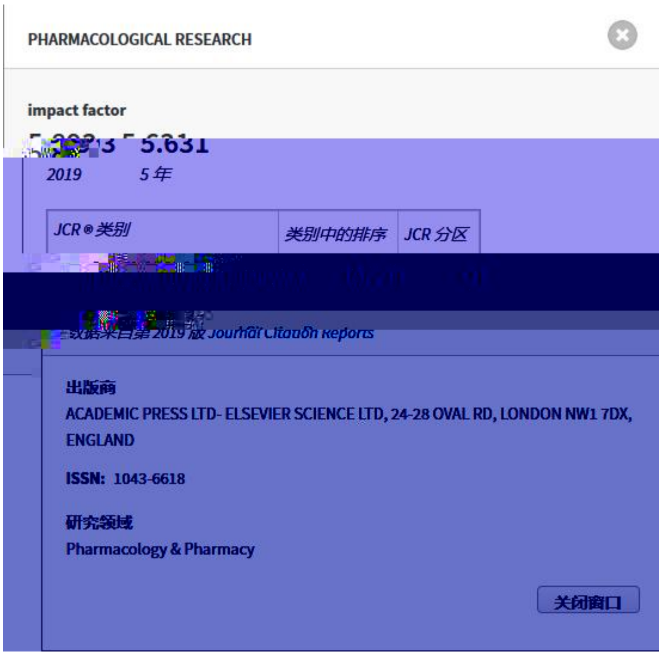

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