

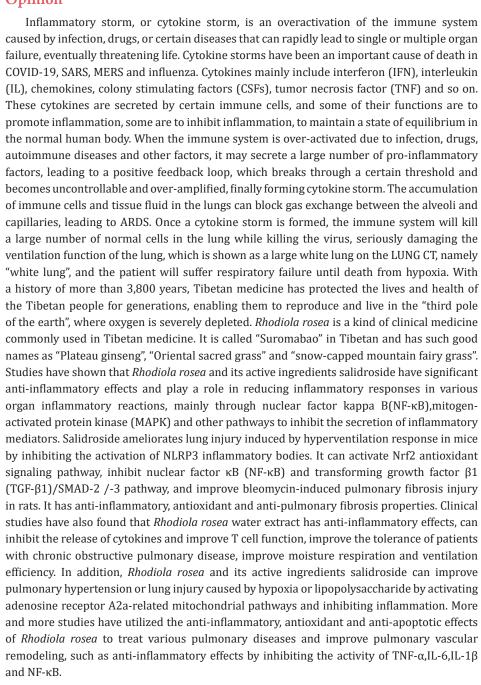


The Tibetan Medicine Rhodiola is Effective Against Inflammatory Storms

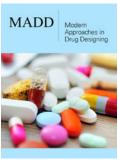
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Opinion







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Our research group has rich Tibetan medicine research foundation. In the early stage, we induced lung injury in rats by LPS, simulated the occurrence of cytokine storm, and preliminarily explored the intervention of salidroside in cytokine storm. Made model in rats by giving different doses of rhodiola glucoside, for physiological and biochemical monitoring of the experimental rats, confirmed the effective component glycosides, *Rhodiola rosea* in certain dose range, by reducing the IL - 6, ACE2, gm-csf, such as the secretion of inflammatory cytokines, can effectively resist cytokine storm, reduce lung injury in rats, improve survival in rats. Subsequently, in order to further understand the mechanism of *Rhodiola rosea* against cytokine storm, we used the network pharmacology method to predict and analyze the main active

ingredients and possible action mechanism of *Rhodiola rosea* against cytokine storm. Bioinformatics analysis showed that kaempferol, IL-6 and STAT3 were the main targets and active components of *Rhodiola rosea* against cytokine storm.

The fact is that Tibetan medicine *Rhodiola rosea* has inhibitory effect on the process of excessive oxidative stress, interferes with cytokines that cause inflammatory storms, blocking inflammation storm through key cytokines and key signal passways. It greatly reduces the damage of inflammatory storms to patients, and it is of great significance to improve the rapid response mechanism of Tibetan medicine to major epidemic. However, its mechanism of action needs to be improved through further research.

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