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# MicroRNA-326 aggravates acute lung injury in septic shock by mediating the NF- $\kappa$ B signaling pathway

**Running title:** miR-326 in septic shock mice with ALI

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## ABSTRACT

Previously, several previous studies have demonstrated that the activation of the nuclear factor-kappa B (NF- $\kappa$ B) signaling pathway contributes to the development of lipopolysaccharide (LPS)-induced acute lung injury (ALI) as well as an inflammatory reaction, and its inhibition may provide future therapeutic values. Thereby, this current study aims to explore the effects of miR-326 on inflammatory response and ALI in mice with septic shock via the NF- $\kappa$ B signaling pathway. The study included normal mice and LPS-induced mouse models of septic shock with ALI. Modeled mice were transfected with the blank plasmid, miR-326 mimic, miR-326 inhibitor,

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