

Supplementary Materials

Vital role of PINK1/Parkin-mediated mitophagy of pulmonary epithelial cells in severe pneumonia induced by IAV and secondary *Staphylococcus aureus* infection

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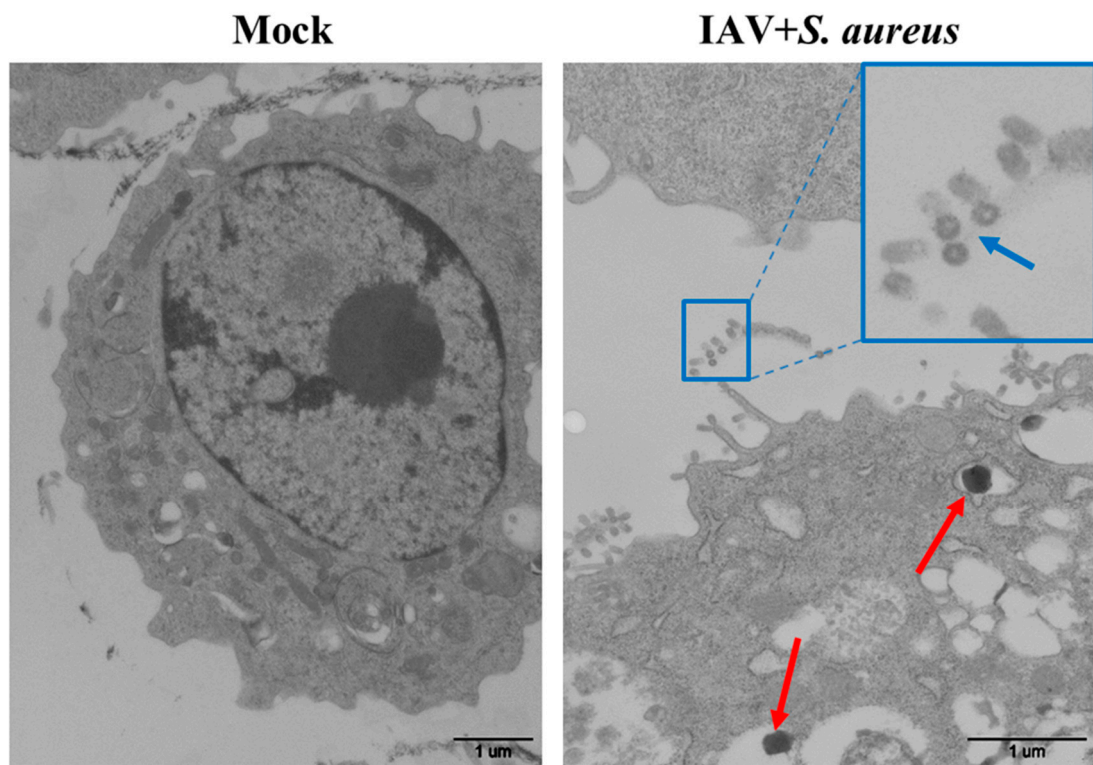


Figure. S1 IAV and *S. aureus* particles in A549 cells at 24 h post-infection following IAV and secondary *S. aureus* infection by TEM. Red arrows indicated *S. aureus* and blue arrows indicated virions.

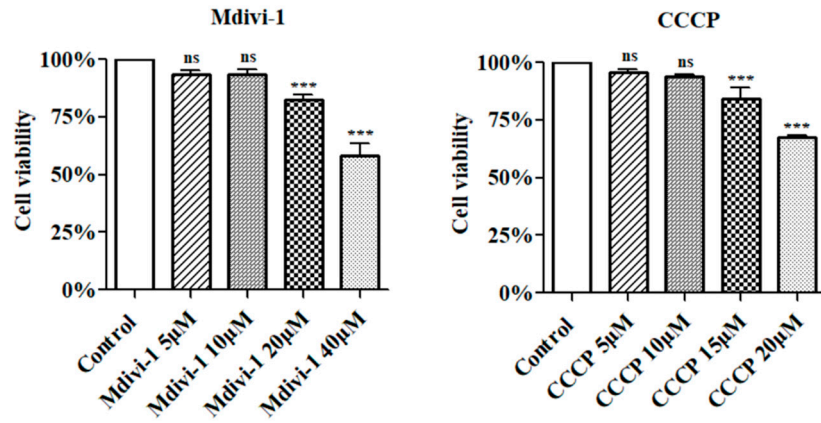


Figure. S2 The Mdivi-1 and CCCP at optimal doses were selected for subsequent experiments. A549 cells were treated with CCCP at doses of 5 μ M, 10 μ M, 15 μ M, 20 μ M and Mdivi-1 (mitophagy inhibitor (MCE, China)) at doses of 5 μ M, 10 μ M, 20 μ M, 40 μ M for 24 h, respectively. Then, cell viability was detected. *** P <0.001.

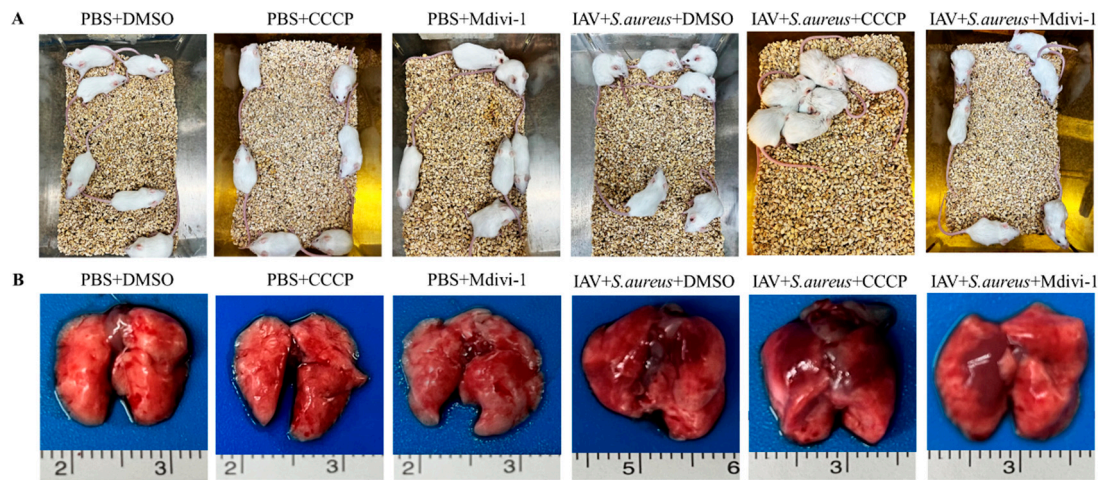


Figure. S3 Effects of mitophagy on the lung injury in mice following IAV and secondary *S. aureus* infection. Mice were abdominally injected with CCCP (5 mg/kg) and Mdivi-1 (25 mg/kg) for two days before infection. After infection of IAV and secondary *S. aureus*, lung tissues were collected at 6 days post-infection. (A-B) The clinical symptoms of mice and gross lesions of lungs were observed (n=3).