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Supplementary Materials

Inhibitory effect of cordycepin on the proliferation of MCF-7 breast cancer cells and its mechanism investigation using network pharmacology-based analysis

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Determination of Cell Viability

The cell viability of MDA-MB-231, LLC-PK1 and HUVEC cells in *C. militaris* concentrate and cordycepin was evaluated using an Ez-Cytox Cell Viability Assay Kit (Dail Lab Service Co., Seoul, Korea). Briefly, cells with a density of 1×10^4 cells/100 μL were seeded onto 96-well plates. After incubation for 24 h, *C. militaris* concentrate and cordycepin at various concentrations were added. After treatment for 24 h, 10 μL of Ez-Cytox solution was added and incubated for 30 min. The absorbance was measured at 450 nm (absorbance for live cells) in a microplate reader (PowerWave XS; Bio-Tek Instruments, Winooski, VT, USA).

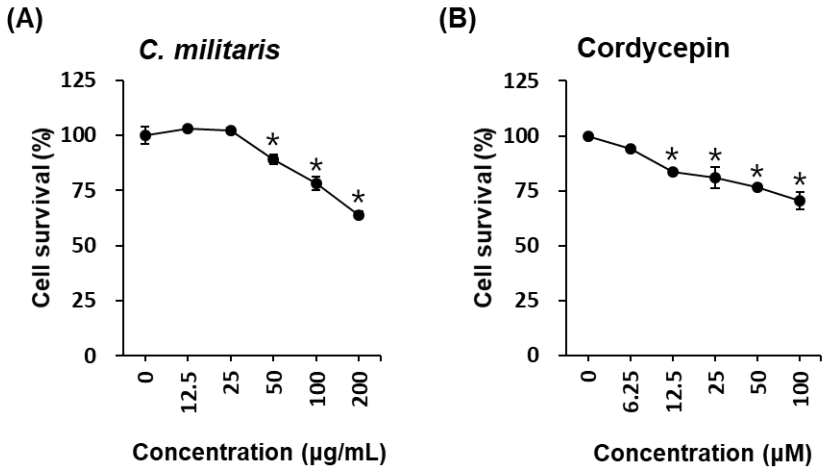

Figure S1. Effects of *Cordyceps militaris* concentrate and cordycepin on MDA-MB-231 breast cancer cell viability. Cytotoxic effects of (A) *C. militaris* concentrate and (B) cordycepin on MDA-MB-231 cells. Data are the means of experiments performed in triplicate. Data are presented as the mean ± S.D. and were analyzed using Student's t-test. *$P < 0.05$ versus non-treated cells.

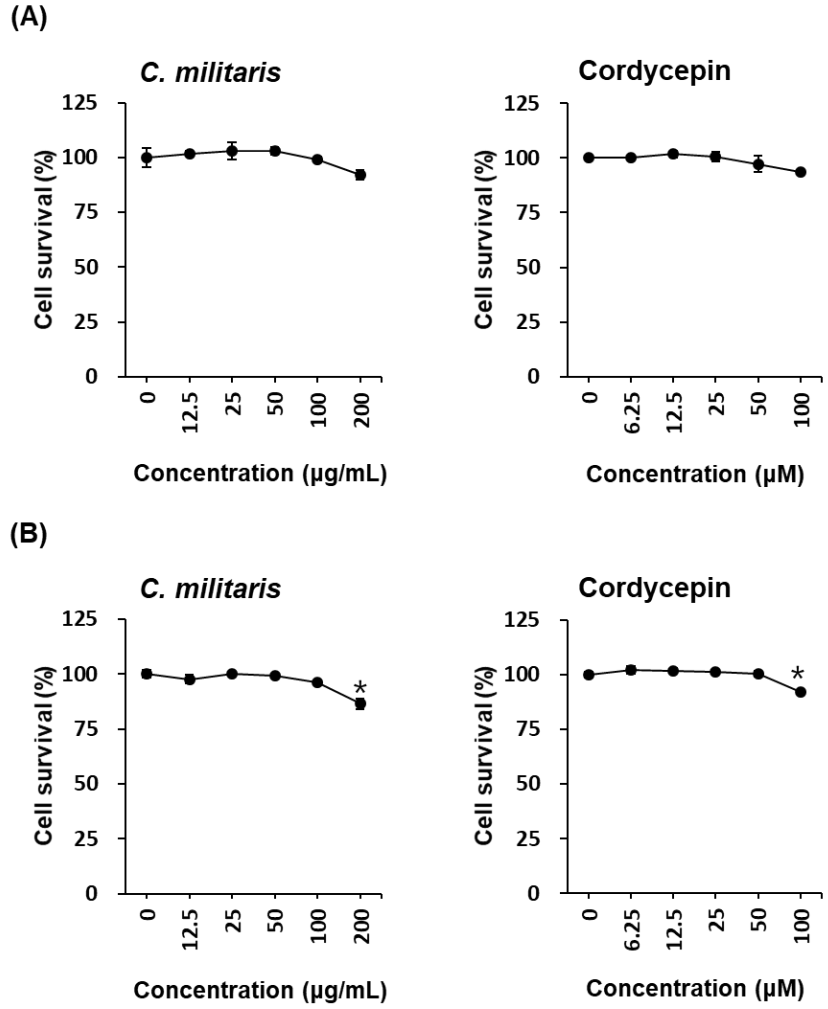

Figure S2. Effects of *Cordyceps militaris* concentrate and cordycepin on viability of (A) LLC-PK1 pig kidney epithelial cells and (B) Human umbilical vein endothelial (HUVEC) cells. Data are the means of experiments performed in triplicate. Data are presented as the mean ± S.D. and were analyzed using Student's t-test. *P < 0.05 versus non-treated cells.