

Supplementary Material

Title page

Title: Reveals of quercetin's therapeutic effects on oral lichen planus based on network pharmacology approach and experimental validation

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1. Supplementary Table. S1

The effect of different concentrations of quercetin on the expression of IL-6 of T lymphocytes. After the incubation with different concentrations of quercetin for 24 h. The 10, 20, 40, and 100 μM quercetin induced a lower IL-6 protein level than the control (** $p < 0.01$, *** $p < 0.001$ versus the control group, $n = 3$). There was no obvious difference between the 40 and 100 μM quercetin group($p > 0.05$).

concentrations of quercetin (μM)	concentration of IL-6 (pg/ml)
control	145.34 \pm 3.77
1	144.49 \pm 10.18
5	139.53 \pm 4.39
10	76.98 \pm 2.56 **
20	42.17 \pm 3.10 ***
40	28.00 \pm 0.86 ***
100	27.36 \pm 2.31 ***

2. Supplementary Table. S2

The effect of different concentrations of quercetin on the expression of IFN- γ of T lymphocytes. After the incubation with quercetin for 24 h. The 10, 20, 40, and 100 μM quercetin induced a higher IFN- γ protein level than the control (** $p < 0.01$, *** $p < 0.001$ versus the control group, $n = 3$). There was no obvious difference between the 40 and 100 μM quercetin group($p > 0.05$).

concentrations of quercetin (μM)	concentration of IFN- γ (pg/ml)
control	46.57 \pm 5.79
1	48.24 \pm 5.42
5	52.72 \pm 5.45
10	97.02 \pm 9.02 **
20	171.16 \pm 18.72 ***
40	301.71 \pm 17.48 ***

3. Supplementary Fig. S1

The effect of different concentrations of quercetin on the apoptosis of T lymphocytes. The percentage of apoptosis was composed of early and late apoptotic rate. The rate of Annexin V-FITC (+)/PI (-) represents the early apoptotic rate. The rate of Annexin V-FITC (+)/PI (+) represents the late apoptotic rate. The 20, 40, and 100 μ M quercetin group had a high apoptosis rate. (* $p < 0.05$, *** $p < 0.001$ versus the control group, $n = 3$)

