Research Article
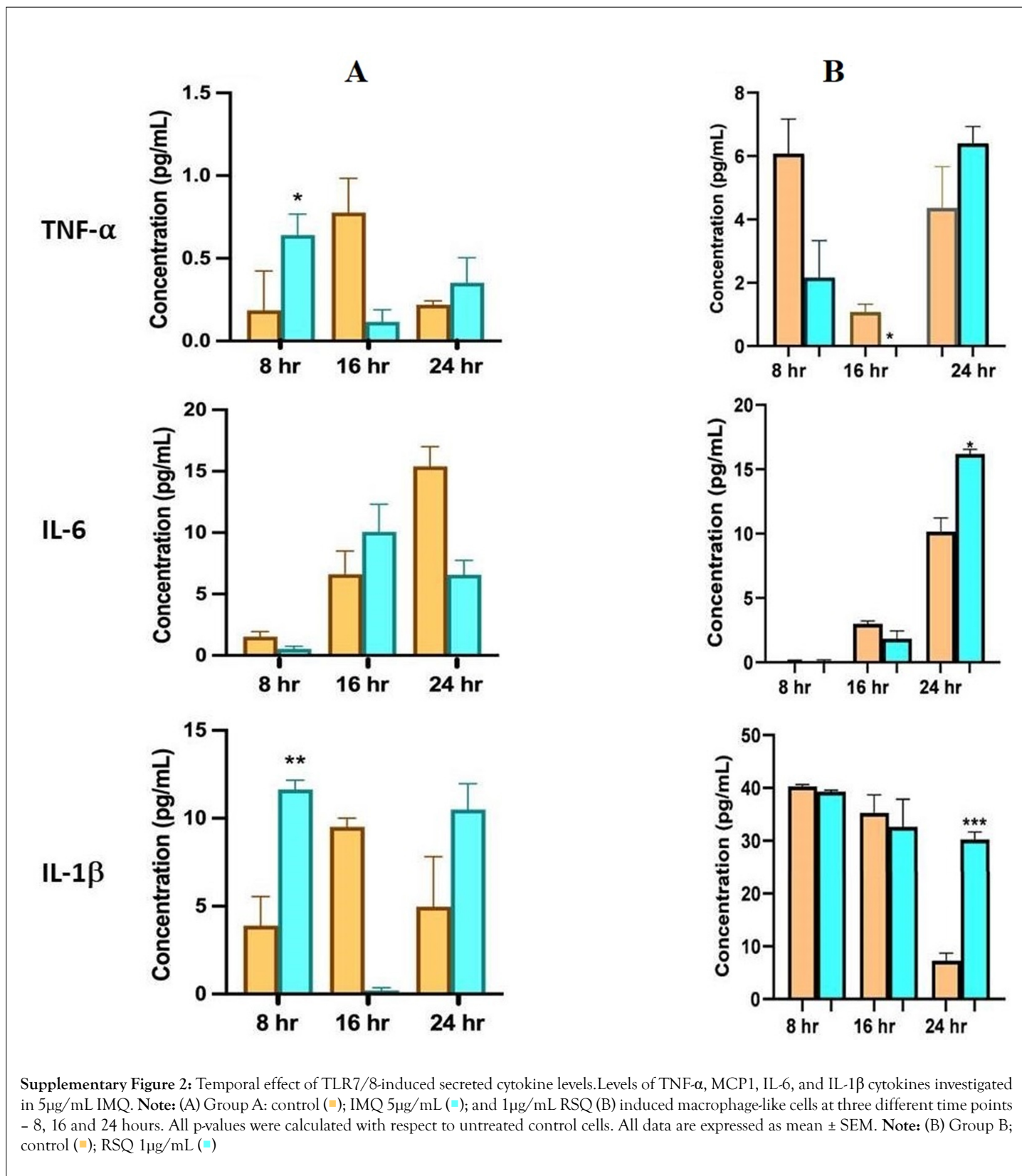

Supplementary Figure 1: Time-dependent effect of TLR7/8-induced cytokine gene expression. Inflammatory cytokines including TNF-α, MCP1, IL-6, IL-1β, and CXCL10 genes were investigated for changes in their gene expression after induction with IMQ. **Note:** (A) Group A: control (■); IMQ 1μg/mL (■); IMQ 5μg/mL (■); IMQ 10μg/mL (■); and RSQ (B) at three different concentrations (1μg/mL, 5μg/mL and 10μg/mL) over a range of time (8, 16, 24 and 36 hours). All p-values were determined with respect to untreated control cells. All data are expressed as mean ± SEM. Note: (B) Group B; control (■); RSQ 1μg/mL (■); RSQ 5μg/mL (■); RSQ 10μg/mL (■).

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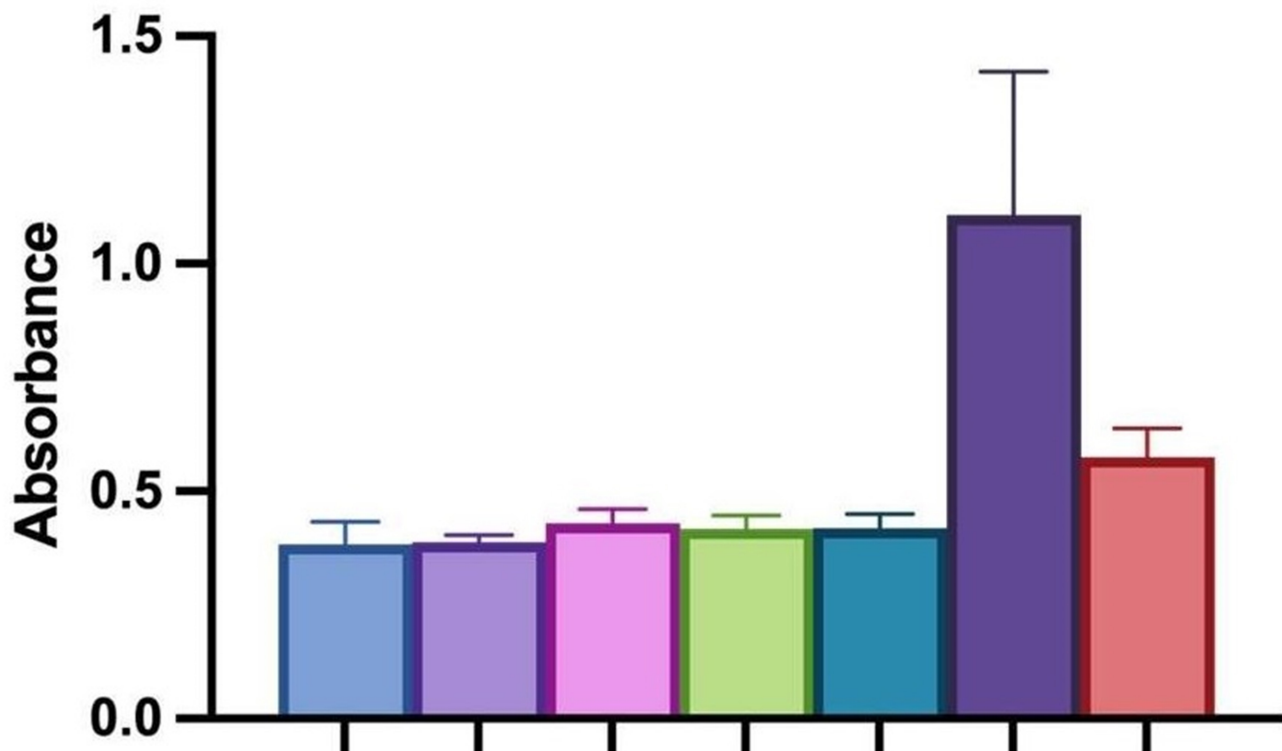
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Supplementary Figure 2: Temporal effect of TLR7/8-induced secreted cytokine levels. Levels of TNF-α, MCP1, IL-6, and IL-1β cytokines investigated in 5μg/mL IMQ. **Note:** (A) Group A: control (■); IMQ 5μg/mL (■); and 1μg/mL RSQ (B) induced macrophage-like cells at three different time points – 8, 16 and 24 hours. All p-values were calculated with respect to untreated control cells. All data are expressed as mean ± SEM. **Note:** (B) Group B; control (■); RSQ 1μg/mL (■)

Supplementary Figure 3: Effect of AYUSH extracts on cell viability. Bar graph depicting the effect of the investigated herbal extracts at 1000μg/mL concentration. Dexamethasone (1μM) was included as reference control as it was used in subsequent efficacy experiments at significantly lower concentrations to mitigate excess cytokine response in IMQ/RSQ induced macrophage-like cells. The data are expressed as mean ± SEM. **Note:** control (■); V.Con (■); Dex 1μM(■) ; W. somnifera 1000μg/mL (■); T. cordifolia 1000μg/mL (■); A-64 1000μg/ml(■); G. glabra 1000μg/mL (■).