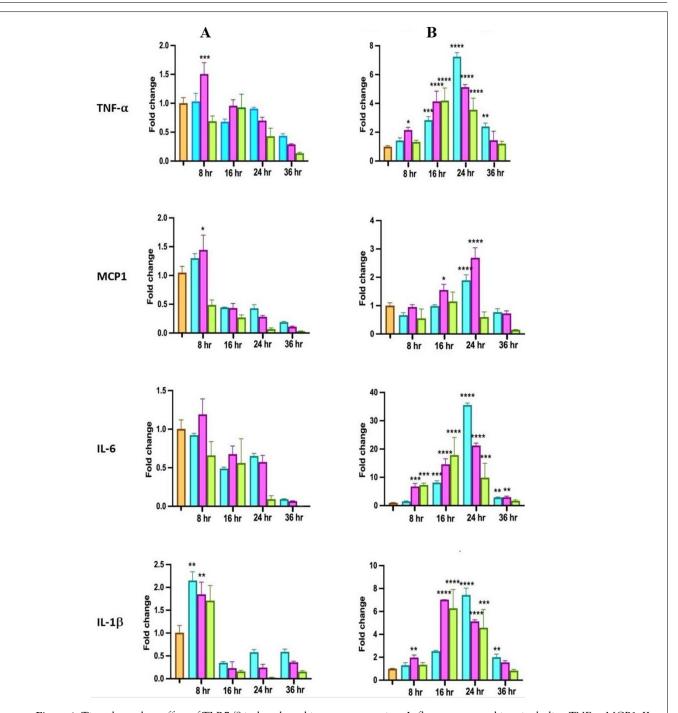
Research Article



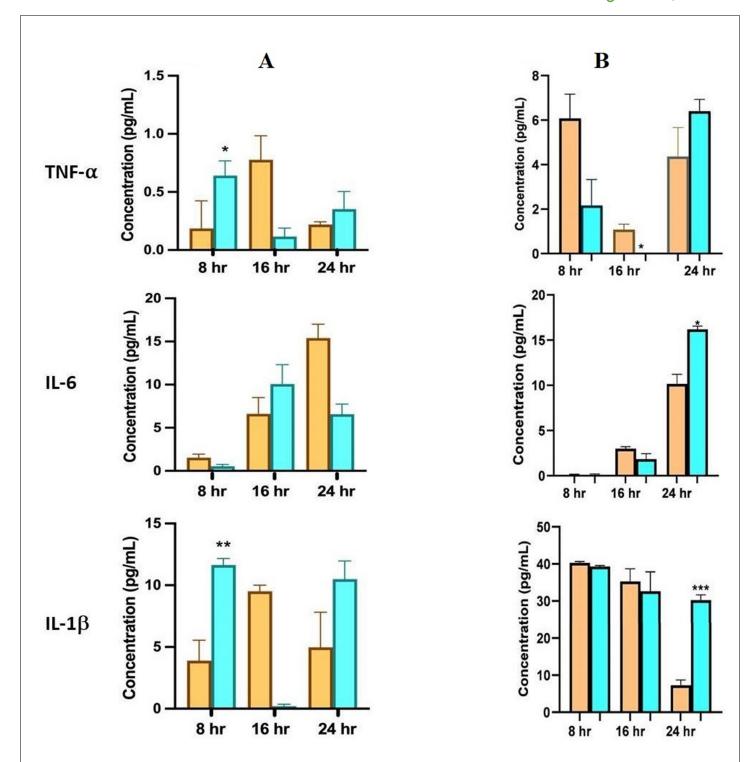
Supplementary Figure 1: Time-dependent effect of TLR7/8-induced cytokine gene expression. Inflammatory cytokines including TNF-α, MCP1, IL-6, IL-1β, and CXCL10 genes were investigated for changes in their gene expression after induction with IMQ. Note: (A) Group A: control (*); IMQ 1μg/mL (*); IMQ 5μg/mL (*); 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 (*).

Correspondence to: Ajay Kumar, Department of Non-communicable Disease, Translational Health Science and Technology Institute, Faridabad, Haryana, India, Tel: +91 9205602315, E-mail: a.kumar@thsti.res.in

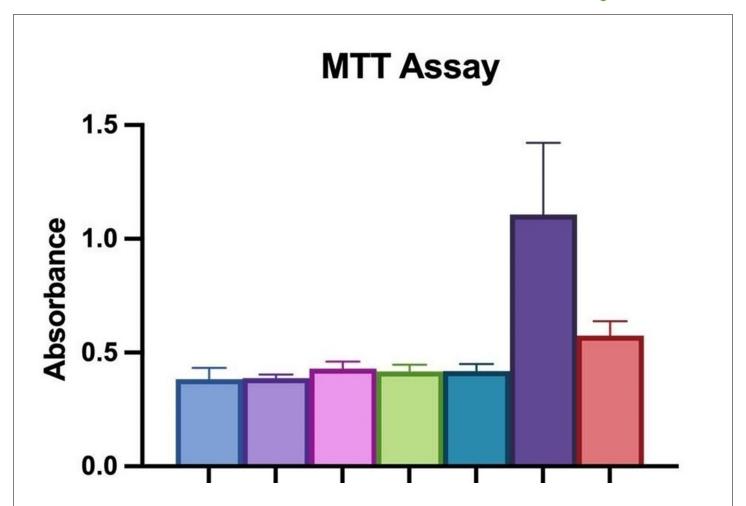
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Supplementary Figure 2: Temporal effect of TLR7/8-induced secreted cytokine levels. Levels of TNF- α , MCP1, IL-6, and IL-1 β cytokines investigated in 5µg/mL IMQ. Note: (A) Group A: control (\blacksquare); IMQ 5µg/mL (\blacksquare); and 1µg/mL RSQ (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 \pm SEM. Note: (B) Group B; control (\blacksquare); RSQ 1µg/mL (\blacksquare)



Supplementary Figure 3: Effect of AYUSH extracts on cell viability. Bar graph depicting the effect of the investigated herbal extracts at $1000\mu g/mL$ concentration. Dexamethasone ($1\mu M$) 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 \pm SEM. Note: control (\blacksquare); V.Con (\blacksquare); Dex $1\mu M(\blacksquare$); W. somnifera $1000\mu g/mL$ (\blacksquare); T. cordifolia $1000\mu g/mL$ (\blacksquare); A-64 $1000\mu g/mL$ (\blacksquare); G. glabra $1000\mu g/mL$ (\blacksquare).