5. OBJECTIVES

1. To determine the antioxidant potential of naringenin using \textit{in vitro} antioxidant \textit{assay methods}.

2. Study the effect of naringenin on the activation of Nrf2 in MIN6 pancreatic \(\beta\)-cell line.

3. Determine the ability of naringenin-induced Nrf2 to mitigate STZ-mediated pancreatic \(\beta\)-cell damage in MIN6 cells.

4. To assess the efficacy of Nrf2-upregulating naringenin for protecting mice from STZ-induced diabetes.