CHAPTER 3.0 AIM AND OBJECTIVES

Aim

The aim of the study was to evaluate the protective effect of curcumin on biochemical parameters with regard to glucose metabolism, their potential changes with multivariate analysis on most contributing factors and the effect of docking of curcumin and PPARγ with associated genes regulating the molecular changes on high fructose diet induced insulin resistance (IR) in adult male Wistar rats.

Objectives

• To study the protective role of curcumin on high fructose diet induced IR with regard to biochemical metabolic changes and histochemistry in rats

• To identify the binding efficiency of curcumin and PPARγ which regulate the expression of associated genes and to analyze the contributing factors on fructose induced insulin resistance in rats