2.1 Objectives of the Study:

- To collect human fasting venous blood samples from T2DM subjects and age sex matched controls for analysis of level of glucose, liver function test, oxidative stress markers, inflammatory marker, lipid profile, etc.

- To study the levels of adiponectin and leptin from fasting blood serum/plasma samples of diabetic and control subjects

- To study the gene expression patterns in selected genes from the peripheral blood mononuclear cells of T2DM subjects and age sex matched controls

- To study the effect of nutritional interventions (omega-3 fatty acids) on lipid biology in animal model with nicotinamide-streptozotocin induced T2DM