List of Figures

Figure	Title	Page #
2.1	Types of diabetes and metabolic syndromes	08
2.2	Diabetes mellitus integrates with a host of cellular pathways controlled by oxidative stress	10
2.3	Chemical structure of alloxan	16
2.4	Chemical structure of streptozotocin	17
2.5	Chemical structure of dexamethasone	17
4.1	DPPH scavenging activity of *B. tulda* leaf extract compared to standard ascorbic acid	36
4.2	Ferric reducing power assay of *B. tulda* leaf extract compared to standard BHT	37
4.3	Hydrogen peroxide scavenging activity of *B. tulda* leaf extract compared to standard ascorbic acid	38
4.4	Correlation between different antioxidant parameters of *Bambusa tulda* leaf	39
4.5a	GC–MS of hydromethanolic fraction of *Bambusa tulda* showing the presence of p- hydroxy benzoic acid and salicylic acid	42
4.5b	GC–MS of hydromethanolic fraction of *Bambusa tulda* showing the presence of 2,4-dihydroxy benzoic acid	42
4.5c	GC–MS of hydromethanolic fraction of *Bambusa tulda* showing the presence of p-coumaric acid and o-coumaric acid	43
4.5d	GC–MS of hydromethanolic fraction of *Bambusa tulda* showing the presence of vanillic acid	43
4.5e	GC–MS of hydromethanolic fraction of *Bambusa tulda* showing the presence of ferulic acid	44
4.6	Effect of hydromethanolic extract of *Bambusa tulda* leaf on body weight in different experimental groups	44
4.7	Effect of *B. tulda* leaf extract on fasting blood glucose	45
4.8	Effect of *B. tulda* leaf extract supplementation on glutathione peroxidase in liver of experimental rats.	46
4.9	Effect of *B. tulda* leaf extract supplementation on superoxide dismutase in liver of experimental rats.	46
4.10	Effect of *B. tulda* leaf extract supplementation on lipid peroxidation in liver of experimental rats	47
4.11	Histopathology of pancreas	48