## LIST OF TABLES

Chapter	Table number	Title	Page number
1	1.7.1	Percentage yield of plant extracts (Aqueous)	47
	1.7.2	Percentage yield of plant extracts (Methanolic,70% v/v)	48
	1.7.3(A)	Qualitative analysis of selected plant parts : Aqueous extract	50
	1.7.3(B)	Qualitative analysis of selected plant parts :  Methanolic extract	51
	1.7.4	Total phenol estimation in plant extract through FCR  Total Phenol Gallic acid equivalent mg/ml/gm of dry  plant powder	54
	1.7.5	Total flavonoid estimation in plant extract	55
	1.7.6	IC <sub>50</sub> of extracts calculated by performing DPPH assay	57
	1.7.7	Protein denaturation inhibition activity of plant parts	58
2	2.3.1	Anti-proliferative activity of aqueous extracts on MCF-7.	69
	2.3.2	Anti-proliferative activity of aqueous extracts on MDA-MB-231.	70
	2.3.3	Anti-proliferative activity of methanolic extracts on MCF-7.	71

	2.3.4	Anti-proliferative activity of methanolic extracts on	72
		MDA-MB-231.	
3	3.3.1	List of Metabolites found in GC-MS analysis of Sv	87
		leaf extracts	
	3.3.2	Identified Phyto compounds in Sv leaf aqueous extract	92
		in HRLC-MS	
	3.3.3	Identified Phyto compounds in Sv leaf methanolic	94
		extract in HRLC-MS	
4	4.3.1	ADME/T analysis of selected secondary metabolites	107
	4.3.2	Binding energy of selected compounds	108
	4.3.3	PDB ID of selected target proteins	109
	4.3.4	Target-Ligand interaction score	110
5	5.1.1	Combinational studies shows anti-cancer activity	120
	5.2.1	Extract and melatonin combinational groups for	122
		MCF-7	
	5.2.2	Extract and melatonin combinational groups for	122
		MDA-MB-231	
6	6.2.1	Experimental group details	131
	6.3.1	Types of cells distributed in different quadrant in	156
		FACS analysis images	
7	7.1.1	List of genes studied by Real time PCR	163
	7.2.1	cDNA synthesis cocktail preparation	167
	7.2.2	Program setup for cDNA Synthesis	167
	7.2.3	Primer details for target and endogenous gene	169

7.2.4	Cocktail preparation for Real time-PCR analysis	169
7.2.5	Program setup for Real-Time PCR amplification	170
7.3.1	Gene expression study for MCF-7: Data represent	177
	fold change values.	
7.3.2	Gene expression study for MDA-MB-231: Data	183
	represent fold change values.	
7.3.3	Network status	185
7.3.4	Top 10 selected HUB gene through degree method	186