List of Tables

Chapter	Title	Page No.
1.1	Alternative Propagation Methods	15
1.2	Range of average seed mass, oil content, and protein content reported for *Jatropha curcas* seeds	18
1.3	Physical and Chemical properties of diesel and *Jatropha curcas* oil blend	20
1.4	Properties of *Jatropha curcas* oil–diesel blends	21
1.5	Percentage of Oil classes and lipid composition of *Jatropha curcas* seed oil	22
1.6	Fatty Acid composition of seed oil of *Jatropha curcas*	23
1.7	Molecular tools in plant genetic resources conservation: a guide to the technologies	26
2.1	Explant survival and contamination with varied pretreatment conditions	63
2.2	Explant survival and contamination with NaOCl in pretreatment and varying $HgCl_2$ duration	64
2.3	Explants survival and contamination with varying time of exposure to fungicide and $HgCl_2$	67
2.4	Various media combinations studied for callus formation in leaf explants of *J.curcas*	71
2.5	Effect of BAP and IBA on formation of buds	73
2.6	Effect of BAP and IBA on proliferation of buds	74
2.7	Effect of BAP and IBA on shoot length of bud regenerants	75
3.1	Cell count after transfer of calli (30 days old) from MS+2, 4-D to MSB (liquid)	97
5.1	Comparison of various aspects of frequently used Molecular Techniques	136
5.2	Effect of varying percentage of Cetyl Trimethyl Ammonium Bromide on genomic DNA yield	143
5.3	Variation in duration of heat treatment in leaf samples	147

5.4	Variation in heat treatment attempted in petiole samples	148
5.5	Different *Jatropha* genotypes with their oil content	152
5.6	Amplified DNA bands and polymorphism generated in *J.curcas* genotypes	155
5.7	Primers showing amplification of unique alleles of different genotypes of *J.curcas*	156
5.8	Jaccard`s similarity matrix of seven *Jatropha*.curcas accessions	161
5.9	Distance matrix based on Jaccard coefficient	161
5.10	Distance matrix based on RMSD coefficient	162