Molecular Phylogenetic Analysis of Woody Plants in India and Sri Lanka

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A Thesis
in
The Department
of
Biology

Presented in Partial Fulfillment of the Requirements
for the Degree of Master of Biology

at Concordia University
Montréal, Québec, Canada

June 2025

CONCORDIA UNIVERSITY

SCHOOL OF GRADUATE STUDIES

This is to certify that the thesis prepared

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Entitled: Molecular Phylogenetic Analysis of Woody Plants in India and Sri Lanka

and submitted in partial fulfillment of the requirements for the degree of

Master of Biology

complies with the regulations of the University and meets the accepted standards with respect to originality and quality.

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ABSTRACT

Molecular Phylogenetic Analysis of Woody Plants in India and Sri Lanka

Harsimran Kaur, Master of Science – Biology
Concordia University, 2024

The Indian subcontinent, encompassing India and Sri Lanka, is a region of exceptional plant diversity shaped by deep geological and evolutionary history. Its forest communities, dominated by woody plants, harbour a large proportion of this biodiversity. Understanding the evolutionary relationships among these taxa is crucial for exploring the processes of speciation, extinction, dispersal, and assembly of ecological communities.

This study reconstructs a phylogenetic framework for 2,208 woody plant species spanning 47 orders and 143 families using five commonly used genetic markers: chloroplast genes or genomic regions (*rbcL*, *matK*, *psbA-trnH*) and nuclear ribosomal genomic regions (*ITS1*, *ITS2*). A supermatrix alignment of nucleotide sequences from 1,356 taxa was generated and used for multilocus-based reconstruction of the phylogeny. The inclusion of nuclear markers notably enhanced tree resolution, reducing overall polytomies from 13.48% to 6.63%. For example, polytomies in *Ficus* decreased from 67.57% to 20%, and *Cinnamomum* nodes were fully resolved where *ITS* data were present.

Comparisons between chloroplast- and nuclear DNA sequence data-based trees revealed lineage-specific variation in phylogenetic informativeness. Nuclear ITS data improved resolution in Laurales, Malpighiales, Rosales, and Myrtales, while chloroplast markers performed better in Lamiales, Ericales, and Brassicales.

These results provide a robust phylogenetic framework for understanding community assembly and diversification processes in the forests of India and Sri Lanka, offering valuable insights for ecological research and biodiversity conservation.

ACKNOWLEDGEMENTS

Firstly, I would like to express my deepest gratitude to my supervisor, **Dr. Selvadurai Dayanandan**, for his invaluable guidance, support, and encouragement throughout this project. His expertise and dedication were pivotal in shaping this research, and I am thankful for the opportunity to work under his mentorship.

Above all, I owe everything to my parents. **Everything I do is for them, because of them, and to them.** Their unwavering love, sacrifices, patience, and encouragement have been the foundation of my journey, and their faith in me has been my greatest motivation. Words will never be enough to express the depth of my gratitude to them.

I would also like to sincerely thank **Dr. Parth Sarathi Roy** and **Dr. Mohammad Latif Khan** for providing access to crucial plant data from India and Sri Lanka. Your support and collaboration were essential to the success of this research, and I am deeply appreciative.

I am also extremely thankful to the members of my thesis committee, **Dr. Patrick Gulick**, **Dr. Grant Brown**, and **Dr. Rassim Khelifa**, for their insightful feedback and constructive criticism, which greatly contributed to the improvement of my work.

I gratefully acknowledge the **Department of Biology at Concordia University** for providing the resources and facilities that made this research possible. I am also thankful to my colleagues and friends in the lab for their camaraderie and assistance, especially **Sachin Medigeshi Harish**, **Semini Nawalage**, and **Subhikshaa Bagavathiappan** (thank you for being my support system and emotional rock through this journey).

I am deeply grateful to everyone who, in any capacity, played a part in making this research possible, whether through technical support, encouragement, or insightful discussions. This thesis would not have been possible without you.

CONTRIBUTIONS OF AUTHORS

This thesis is the result of original research conducted by the author, **Harsimran Kaur,** under the supervision of **Dr. Selvadurai Dayanandan** (Associate Dean and Principal Investigator, Department of Biology, Concordia University). Dr. Selvadurai Dayanandan provided supervision throughout the project, including guidance in experimental design, phylogenetic analysis methods, and manuscript revisions. All data compilation, DNA sequence processing, phylogenetic analyses, and manuscript writing were conducted by the author.

With this, I'd like to mention that **Sachin Medigeshi Harish** (PhD Candidate, Department of Biology, Concordia University) contributed to the early stages of this research by assisting in species name compilation and guiding the initial data organization. **Semini Nawalage** (PhD Candidate, Department of Biology, Concordia University) provided technical support and assisted in understanding key phylogenetic analysis tools.

Dr. Rassim Khelifa (Assistant Professor, Department of Biology, Concordia University),
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provided valuable feedback during the thesis defence and contributed to improving the quality and clarity of the thesis.

All authors contributed intellectually to the development and interpretation of the research and approved the final version of this thesis.

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INTRODUCTION

India is home to several biodiversity hotspots, each with a rich evolutionary, geomorphological, and biogeographical history. These regions span tropical forests, mountains, wetlands, and deserts, making India a prime subject for biodiversity studies (Acharya et al., 2011; Bose et al., 2018; Karanth, 2015; Manish et al., 2021; Sen et al., 2019; Shooner, 2015). The Indian subcontinent encompasses much of India, Sri Lanka, parts of Pakistan, and Bangladesh (Karanth, 2015). Given the exceptional biodiversity and the deep evolutionary history of the Indian subcontinent, understanding the evolutionary relationships among its flora is critical for many studies (Dittus, 2017; Karanth, 2015; Myers et al., 2000). This ecological and taxonomic richness makes the region a key area for understanding how species have evolved, dispersed, and adapted over time, especially the woody plant lineages, which play a foundational role in forest ecosystems (Cavender-Bares et al., 2009). To unravel these patterns, it is essential to explore the evolutionary relationships among species (Bose et al., 2018; Fuentes-González & Martins, 2019).

In terms of the biogeographic history of the Indian subcontinent, the plate tectonic model states that this subcontinent occupied a central location in the Gondwana supercontinent and started breaking up during the Middle Jurassic (~180 Mya) (Ali & Aitchison, 2008). The tectonic plate with Madagascar-India-Antarctica-Seychelles-Australia drifted away from South America-Africa 167 Mya (Ali & Aitchison, 2008; Chatterjee et al., 2013). This was followed by Australia-Antarctica break from India-Madagascar 130 Mya and India-Seychelles split from Madagascar 84-96 Mya, to further also split from Seychelles to collide (5qaa5-65 Mya) and finally suture (42-55 Mya) with long-disconnected Eurasia (Ali & Aitchison, 2008; Briggs, 2003; Karanth,2015; Manish et al., 2021). The proximity of Sri Lanka to India suggests that these two landmasses were connected throughout history (until 25-5 Mya) and are now separated by the shallow and narrow

Palk Strait (McLoughlin, 2001). This long drift of the land masses resulted in various climate changes and the formation of environmental gradients, affecting the population dynamics, dispersal pathways, and rate of biotic exchanges of organisms (Sen et al., 2019). Various studies support the Gondwana relationships with the Indian subcontinent, and the exchange of flora and fauna between these landmasses has been reflected in their fossil records (Briggs, 2003; Ali & Aitchison, 2008; Karanth, 2015). Due to the isolation, this island shows the presence of endemic radiation and rich species diversity. The endemic distribution patterns found contribute to four biodiversity hotspots of India: The Himalayas, The Western Ghats, The Indo-Burma region and The Sunda Land (Sen et al., 2019) (Figure 1).

One of the major questions addressed by inferring these historical events was how a species or a group of species is found in one place and not another (Bose et al., 2018; Fuentes-González & Martins, 2019; Webb et al., 2002). The approach to answer this question is to study the combined effect of evolutionary and ecological processes on the species (Bose et al., 2018; Manish et al., 2021). By incorporating phylogenetic data, researchers can gain insights into community assembly processes such as trait-based assembly of species into communities and niche differentiation (Cavender-Bares et al., 2009). The phylogenetic analysis can reveal the evolutionary patterns of selected organisms and provide evidence of diversification, speciation and migration (Bose et al., 2018; Uncu et al., 2015). By examining the phylogenetic structure of communities, researchers can identify patterns of species interactions and environmental influences, aiding in understanding ecological succession processes (Shooner et al., 2015). Additionally, this can also contribute largely to making informed conservation decisions about the biological history of the Indian Subcontinent (Dittus, 2017). Lastly, the phylogenetic structure of communities can shed light on historical processes that have shaped biodiversity in ecosystems, as speciation is influenced by the effect of various evolutionary forces and environmental constraints (Pyron et al., 2014). The genes are constantly being mutated in organisms, leading to changes in morphological characters and eventually causing a speciation event. An evolutionary tree can be formed to trace back to the origin of the species, indicating the similarity and dissimilarity of morphological characteristics or genetic makeup of several organisms (Lemey et al., 2009). While the potential advantages of using phylogeny to infer evolutionary history have interested many ecologists, the integration of evolutionary biology and community ecology has made slow progress (Webb et al., 2002), as the availability of well-resolved phylogenetic trees remains one of the major hurdles in the progress of evolutionary community ecology.

Before the introduction of DNA and protein sequence data in the 1970s, the morphological and physiological data of the species and the fossil records were used in phylogenetic analysis. However, the morphological/physiological characteristics may or may not be manifested in taxa due to the result of shared ancestry. Furthermore, their evolutionary change is a complex process influenced by genotype and their environment (Cavender-Bares et al., 2009). The complexity of morphological traits, the incompleteness of fossil records, the limited variation of morphological features, and the continuous nature of morphological characters proved to be a challenge in phylogeny reconstruction. The molecular data, the DNA sequences in particular (Lemey et al., 2009), are valuable for overcoming the limitations of morphological data in phylogeny reconstruction. The recent advances in the extraction of DNA, sequencing methods and computational power increased the availability of molecular data and the development of bioinformatic tools (Cavender-Bares et al., 2009; Liu et al., 2022) for phylogenetic analyses, leading to an improved understanding of the evolutionary relationships of organisms (Smith & Brown, 2018). To infer the relatedness of one species to the other, aligned DNA sequences along with statistical models can be used to reconstruct phylogenetic trees. These DNA sequences should be standardized for comparisons. The region should ideally be a single-copy region, providing sufficient phylogenetic information and flanking conserved regions to allow universal primers to amplify that selected genomic region (Cavender-Bares et al., 2009). The Consortium of Barcode of Life (CBOL) identifies the universal DNA barcode genes for various organisms, such as cytochrome oxidase (COI) for metazoans (Shafqat et al., 2020; Antil et al., 2022). However, since COI is not suitable as a barcode in plants, the most used barcodes for the plant species are *rbcL* (large subunit of RuBisCO - ribulose 1,5 bisphosphate carboxylase), *matK* (maturase K), *psbA-trnH* intergenic spacer region, *ITS* (internal transcribed spacer of the 18S–5.8S–26S nuclear ribosomal cistron), and a few other barcodes like *atpF-atpH, psbK-psbI, trnE- trnT, trnT-psbD, ndhF-rpl32* and *rpl14-rpl16* (Shafqat et al., 2020). The chloroplast genome has a relatively small size and a high copy number (Cavender-Bares et al., 2009; Shafqat et al., 2020; Antil et al., 2022). Unfortunately, in plant species, comparisons based on one gene are not always successful in producing highly resolved phylogenetic trees. We applied the concept of discrimination rate (Yang et al. 2012), which quantifies the percentage of taxa resolved as distinct, monophyletic groups, to evaluate tree resolution. Yang et al. (2012) investigated the discrimination rates of these barcodes for Calamus (Arecaceae) using the Neighbour-joining (NJ) tree-building method. The discrimination rates were different for *rbcL* (6.3%), *matK* (37.5%), *psbA-trnH* (56.3%) and *matk + rbcL* (43.8%), with best rates for *matK + rbcL + psbA-trnH* (62.5%), which is also used for most phylogenetic research (Yang et al., 2012; Kang et al., 2017). On the contrary, another study with *Cinnamomum* species in Sri Lanka by Chandrasekara et al. (2021) shows that *rbcL, matK and psbA-trnH* do not completely resolve the phylogenetic relationships and show polytomies, which can further be resolved using the DNA sequences of the *ITS* region. Here, a polytomy is the inability of the gene region to resolve relationships, where variation is insufficient to resolve the phylogeny (soft polytomy) or the speciation events simultaneously (hard polytomy) create more than two descendants (Sayyari & Mirarab, 2018). These DNA regions have been used for over 30 years for the reconstruction of phylogenetic trees of angiosperms by the Angiosperm Phylogeny Group (APG) (Stevens, P. F., 2001 onwards; https://www.mobot.org/mobot/research/apweb/). This system has been widely accepted and has been regularly updated with the increase of molecular data in the repositories (Liu et al., 2022). Despite the challenges of assembling and analyzing a large phylogenetic dataset, the complete view of the tree of life can allow the exploration of community ecology questions at a wider level than can be achieved using smaller phylogenies (Lee et al., 2011; Smith & Brown, 2018; Zuntini et al., 2024). Several research papers focusing on large-scale phylogenomics (Phylogeny using whole genome or large fractions of genomes) have been used in the reconstruction of phylogenetic relationships and macroevolutionary patterns for the Tree of Life in the Open Tree of Life repository, as well as Angiosperms in the APG (Smith & Brown, 2018; Lee et al., 2011, Liu et al., 2022).

Molecular phylogenetic studies have been conducted on various plant taxa in India to understand their evolutionary relationships and biogeography, including *Drimia* (Asparagaceae) (Saha & Jha, 2019), *Tinospora* (Menispermaceae) (Ahmed et al., 2005), *Mormodica* (Cucurbitaceae) (Ghosh et al., 2020), *Crotalaria* (Fabaceae) (Subramaniam et al., 2013), *Ceropegia* (Apocynaceae) (Surveswaran et al., 2009), and more. Correspondingly, molecular data has been utilized to construct the evolutionary history of taxa along with the environmental gradients, geographical distribution and biotic interactions of the Flora of the biodiversity hotspots in the Indian Subcontinent including Eastern Himalayas (Acharya et al., 2011), Central Himalayas (Rawal & Pangtey, 1994), Western Ghats (Bose et al., 2018) and Andaman and Nicobar Islands (Ganeshaiah et al., 2019). Correspondingly, in the woody trees' studies in the Indian Subcontinent, similar approaches are followed, which include the utilization of the same barcodes for one clade (Viswanathan et al., 2018; Attigala et al., 2014; Haber et al., 2017; Zhang et al., 2016) or one geographical area (Mohandass & Davidar, 2016; Mohandass & Davidar, 2016; Ganeshaiah et al., 2019). While these studies have been able to provide insightful information and results, the opportunity for exploration of large-scale phylogenetic tree reconstruction on the highly diverse and species-rich landmass as a whole remains unexplored. Hence, this study was designed to reconstruct a well-resolved phylogeny for the woody plants in the Indian continent using five chloroplast gene markers.

I hypothesize that molecular phylogenetic analysis using multiple gene regions, including nuclear and chloroplast markers, can resolve evolutionary relationships among woody plant species of the Indian subcontinent more effectively than single-marker or morphology-based classifications. Hence, the objective of this study includes the Phylogenetic reconstruction of Woody Plants of India and Sri Lanka using 5 gene markers from (1) chloroplast (*rbcL, matK, psbA-trnH*) and (2) nuclear genome (*ITS*) regions. After conducting this research, my predictions are that: (1) Phylogenetic trees built using combined nuclear and chloroplast sequences will show fewer polytomies than those built with chloroplast markers alone. (2) Nuclear ITS markers (*ITS1 & ITS2*) will increase species-level resolution, particularly in orders and genera with unresolved or collapsed branches in plastid-only trees.

I reconstructed phylogenetic trees for 2208 species across 47 orders and 143 families using two approaches – Combined and Order-Wise (separate for chloroplast and nuclear regions) for resolving the branches to the tip level. Concatenation of these genes was done in various ways to yield a high-resolution phylogenetic tree. This research expands our understanding of the evolution of species diversity, resolving evolutionary relationships at a genus level using five gene markers, which has not been achieved at this scale before. The methodology used for the combined chloroplast genes study makes this study novel, and the dual-genome approach provides insights into both maternal (chloroplast DNA) and biparental (nuclear DNA) inheritance patterns, making the study more robust in resolving evolutionary patterns that are often missed in single-genome analyses (Small et al., 2004).

Furthermore, this research offers a critical first step toward filling phylogenetic data gaps that have persisted due to the lack of large-scale sampling and sequence data across South Asia. Generating well-resolved phylogenies for woody plants at a large scale creates a valuable reference for future research in biodiversity conservation, evolutionary biology, and community ecology at a scope that cannot be achieved using smaller phylogenies (Smith et al., 2008). The findings could also inform conservation strategies by identifying regions with ancient lineages and high phylogenetic diversity, which are often prioritized for protection. The mapping of these phylogenetic lineages on the map of the Indian Subcontinent can also help in unwinding the mysteries of community ecology. Studies on woody plants, particularly, can help in biodiversity conservation (Gebirehiwot et al., 2022), environmental remediation, advancing plant biology knowledge (Yu et al., 2021) and understanding ecosystem dynamics (Rewald et al., 2020).

METHODOLOGY

1. Taxon and DNA region Sampling

The study included woody plant species from forest inventory plots in India and Sri Lanka (Figure 1). The species list was gathered from Dr. Parth Sarathi Roy (Innovation Systems for the Drylands (ISD), ICRISAT, Pathancheru, Hyderabad - 502 324, India) and Dr. Mohammad Latif Khan & the team (Department of Forestry, North-Eastern Regional Institute of Science & Technology, Nirjuli, Itanagar, Arunachal Pradesh 791109, India) (Figure 2). All individuals with more than 1 cm DBH were documented from the plots (plot size – 20 m X 20 m) of various regions of India. The documented species names were combined to result in 6739 names from which the subspecies level taxonomy was removed, duplicates were removed, and hybrids were not selected (4083 names). The names were also collected for Sri Lanka from the National Red List of 2012 (The National Red List 2012 of Sri Lanka: Conservation Status of the Fauna and Flora, 2012). For the verification of synonyms and accepted names, species names were searched through the website Plant of the World Online (POWO; https://powo.science.kew.org/), which uses the names from the World Checklist of Vascular Plants (WCVP) backbone (Govaerts et al., 2021). The accepted geographical locations that were kept in the dataset included India, Sri Lanka, Assam, West & East Himalayas and Andaman & Nicobar Islands and all species except Trees and Shrubs were removed. Hence, Annuals, Lianas, Subshrubs and Climbers with the Perennial shrubs and subshrubs were discarded. The families and orders were retrieved from the R package 'taxize' (Chamberlain & Szöcs, 2013), to which the resulting dataset included 2208 species of 47 orders, 143 families and 707 genera.

Accession numbers were collected from NCBI GenBank (http://www.ncbi.nlm.nih.gov) (Sayers et al., 2019) for the nucleotide sequences - *rbcL*, *matK*, *psbA-trnH*, *ITS1* and *ITS2* from the NR database. Sequence length was not restricted to any number to include most of the available data pertaining to the species list, and hence, the sequence length varied from 200 base pairs to 2000 base pairs. Accession numbers were used to download sequences in '.fasta' format using the R packages ape (Paradis & Schliep, 2018) and seqinr (Charif & Lobry, 2007).

2. Sequence Alignment

Sequences were edited using Geneious Prime 2024.0.7 (https://www.geneious.com/; Kease et al., 2012). MAFFT plugin (https://mafft.cbrc.jp/alignment/software/) in Geneious was used for alignment in the L-INS-I algorithm, which is one of the Iterative refinement methods using WSP and consistency scores, with the directions of the sequences adjusted accurately (Katoh et al., 2017). Individual regions were manually edited and 31 sequences for *rbcL*, 29 sequences for *matK*, 21 for *psbA-trnH* and 21 for *ITS1* & *ITS2* (combined) were excluded due to one or a combination of these reasons: (1) Presence of ambiguous characters, (2) diverse sequence from consensus, (3) presence of whole genome sequence instead of the gene marker or (4) wrong species or gene marker in the accession number The complete list of DNA sequences used for phylogenetic tree construction is provided in Appendix A1.

I trimmed 1104 sequences of *rbcL* (1887 sequence length) and 1052 sequences of *matK* (4177 sequence length) manually in Geneious for their flanking regions. I performed alignments for *psbA-trnH* and *ITS1* & *ITS2* in Order-wise clades due to them being relatively more variable than *rbcL* and *matK* (Cavender-Bares et al., 2009). 33 Orders out of 47 had more than 2 accessions for *psbA-trnH* as well as *ITS1* & 2, for which the sequences were also trimmed manually for flanking regions (Table 1). These regions were trimmed from sequence alignments to improve alignment quality and preserve homology across taxa. The criteria for trimming were based on the ambiguity and gaps present in the terminal regions and lack of a consensus overlapping region (to ensure all taxa in an alignment covered the same homologous site window) (Portik & Wiens, 2020). 786 sequences for *psbA-trnH* and 985 sequences for *ITS* in total were used for the supermatrix construction.

Two concatenation techniques were applied to form the supermatrix for the phylogenetic reconstruction. The first technique was restricted to concatenating cpDNA regions together. The *rbcL* and *matK* were concatenated for all the species altogether to form a supermatrix of 2299 base pairs. The supermatrix was then concatenated with the alignments of *psbA-trnH* performed for the 33 orders, one after the other. This supermatrix then consisted of 28,090 base pairs and 1245 taxa. The second technique included aligning *trnH* as well as *ITS* for all 33 orders altogether and concatenating them with *rbcL* and *matK*. This supermatrix had 10599 base pairs when concatenated with the 5 gene regions and 1356 taxa. *Physcomitrella patens* or *Physcomitrium patens*, a bryophyte, is taken as the outgroup for the tree as it had its entire genome sequenced and was a model organism for phylogenetic and other plant studies (De La Torre et al., 2017; Rensing et al., 2020).

3. Phylogenetic Analysis

I used MrBayes 3.2.7a (https://nbisweden.github.io/MrBayes/index.html; Ronquist et al., 2012) for the Phylogenetic reconstruction in the CIPRES Science Gateway (https://www.phylo.org/; Miller et al., 2010) using the BEAGLE parameter (Ayres et al., 2011). The evolutionary models for each gene marker were selected by inferring them in jModelTest 2.1.10 in CIPRES Science

Gateway (Darriba et al., 2012; Miller et al., 2010; Posada, 2008). The likelihood scores were calculated for the Akaike Information Criterion (AIC), Bayesian Information Criterion (BIC), Akaike Information Criterion corrected for small sample sizes (AICc), and a decision-theoretic performance-based approach (DT) for all the DNA markers (Akaike, 1974; Hurvich and Tsai, 1989; Minin et al., 2003; Schwarz, 1978). For both concatenation techniques, I partitioned the data for each gene to give the mentioned evolutionary model and constrained the phylogeny at the order and family level, derived according to APG III (Angiosperm Phylogeny Group, 2009). Four MCMC (Markov Chain Monte Carlo) chains were run, sampling one tree every 2000 generations for 9 million generations and excluding the first 25% burn-in (Guo et al., 2017).

For the alignments of each order of *psbA-trnH* and *ITS1* & *ITS2*, the phylogenetic reconstruction was performed using the MrBayes plugin in Geneious Prime 2024.0. Outgroups were selected as the closest related clade of an older lineage according to APG III (Table 2). I ran four MCMC chains by sampling one tree every 1000 generations for 5 million generations for the order-wise analysis, or until the standard deviation reached below 0.01 (Guo et al., 2017). The branch support is reflected by the Posterior probabilities of the branches in Bayesian Inference. Branches with more than 0.95 PP values were considered well-supported (Larget & Simon, 1999; Yang & Rannala, 1997).

4. Visualization of Phylogenetic Tree data

Polytomies for the 1356 taxa trees were manually assessed using FigTree software (http://tree.bio.ed.ac.uk/software/figtree/). The colours for each order according to APG III were given using iTOL online visualization software (Interactive Tree of Life; https://itol.embl.de/) as well as their posterior probabilities as the branch colours with red showing the least PP (50) and blue showing the most PP (100) and their intermediary colours showing the values between these extremes (Letunic & Bork, 2006). The branches were collapsed to provide an overview of the orders present in the dataset and were visualized using the same conditions for the PP in iTOL (Figure 4).

For the taxa present in each order, I compared the phylogenetic trees for their polytomies resolution and the monophyletic and polyphyletic status with the chloroplast genes (*rbcL*, *matK* and *psbA-trnH*) with the nuclear genes (*ITS1 & ITS2*) using the R packages 'ape' and 'phytools' (Paradis et al., 2004; Revell, 2011). The plots were constructed for 33 orders (Table 1, Appendix A2-A33) using the 'cophyloplot' function with blue-coloured lines joining the taxa present in both, chloroplast and nuclear genes to give an extensive elaborative distinction between the two phylogenetic trees (left – chloroplast gene tree, right – nuclear gene tree). The taxa for which the blue lines were not emerging indicated that the respective taxa were not present in the other phylogenetic tree.

RESULTS

After removing duplicates, limiting the dataset to the Indian subcontinent, removing genus-level identified species and including only the accepted names of the species, the final dataset consisted of 2208 species of 47 orders, 143 families and 707 genera. Out of 2208 species, 1135 sequences of *rbcL* (51.36%), 1081 sequences of *matK* (48.95%), 807 sequences of *psbA-trnH* (36.54%), 962 sequences of *ITS1* (43.57%) and 1006 sequences of *ITS2* (45.56%) were available, with 1369 (68.18%) accessions present for at least one gene marker. After alignment and correction, the final number of sequences resulted in 1104 *rbcL*, 1052 *matK*, 786 *psbA-trnH* and 985 *ITS1 & 2*. Phylogenetic trees were constructed for chloroplast gene regions (*rbcL, matK* and *psbA-trnH*) and nuclear gene region (*ITS*) according to various orders; and two phylogenetic trees for the entire dataset that included (1) only the chloroplast genes and (2) the chloroplast genes and nuclear gene region to resolve polytomies (Table 1). jModelTest 2.1.10 revealed the results for 4 criteria of the nucleotide substitution model test (Table 3). However, the evolutionary models were selected for the BIC criterion. The BIC criterion results for *rbcL* were TVM + I + G, and for *matK* and *psbA-trnH* were TVM + G, which are not available on MrBayes and hence were assigned for GTR (General Time Reversible) + I (proportion of invariable sites) + G (Gamma Distribution) for *rbcL* and GTR + G for *matK* and *psbA-trnH*. GTR + I + G was selected as the nucleotide substitution model for *ITS* in the entire analysis.

1. Combined approach of Phylogenetic Tree Construction

The concatenated alignment of *rbcL, matK* and *psbA-trnH* with 1246 taxa consisted of an alignment length of 28,090 base pairs. The tree inferred from these gene regions is presented in Figure 3 (Appendix A39), and the orders within this tree are presented in Figure 4 (Appendix A40).

While comparing the phylogenetic trees inferred using *rbcL* and *matK*, 22.74% (~277 out of 1219) of polytomies were revealed, which reduced to 13.48% in the case of all three chloroplast genes. While the number of polytomies was reduced, there were a few genus-level polytomies. For example, the genus *Ficus* (Family: Moraceae, Order: Rosales) had the greatest number of polytomies, following *Cinnamomum* (Family: Lauraceae, Order: Laurales) and *Dipterocarpus* (Family: Dipterocarpaceae, Order: Malvales). These have been resolved using *ITS* as described in the next section.

In the phylogenetic tree, the oldest lineage depicted is the order Cyatheales, after the selected Outgroup (Figure 4). Gnetales (demonstrated by the species *Gnetum gnemon*) in APG is a sister to Pinales, but it is not demonstrated in the inferred phylogenetic tree. The controversial positioning of Gnetales—attributed to their angiosperm-like molecular evolutionary rates—may be impacted in this analysis by the low representation of taxa and molecular data for the group (Ran et al., 2018). The inferred tree consists of a total of 41 out of 47 orders solely due to the lack of molecular data for the species of those 6 orders. Four orders, namely Acorales, Alismatales, Crossomatales and Solanales, only have one species to represent their order. However, their placement in this analysis is in consonance with APG.

I also conducted a reconstruction of a phylogenetic tree using the concatenation of all 5 genes, which revealed 6.63% of polytomies (Figure 5). This depicts that the rDNA region (ribosomal DNA- here, *ITS*) helps a great deal with the objective of this study, i.e., generating a high-resolution phylogenetic tree. This had the maximum number of taxa (or tips) – 1356 (Table 4) and 10,599 base pairs of supermatrix length.

2. Comparison of Chloroplast and Nuclear Order-Wise Trees

Chloroplast genes were concatenated for each order to generate phylogenetic trees, which were then compared with the corresponding trees constructed using nuclear gene regions (Table 5). The orders were classified based on the APG III backbone tree, and 33 order-wise comparisons were conducted (Table 1, Appendix A2–A34). Polytomies observed in Apiales, Asterales, Boraginales, Dilleniales, Ericales, Gentianales, Lamiales, Laurales, Malpighiales, Malvales, Myrtales, Poales, Rosales, and Sapindales were resolved using *ITS1* & *ITS2*, reinforcing the importance of constructing a phylogenetic tree incorporating all five genes (Figure 5). Many orders in this study do not benefit much from the nuclear gene region tree, even if the *ITS* provides more phylogenetic information. For example, Asterales, Cornales and Dipsacales have the same phylogenetic branches in both trees (Figure 6). Some of them also produce different branches for the same species compared to Laurales, Malpighiales and Rosales (Figure 7). While there are a few polytomies seen for the *ITS* tree in the genus *Madhuca* and *Rhododendron* in Ericales, *Psychotria* in Gentianales, *Avicennia* in Lamiales, *Magnolia* in Magnoliales, *Salix* in Malpighiales, *Bambusa* in Poales, *Ficus* and *Prunus* in Rosales, *Mangifera* in Sapindales and *Leea* in Vitales, they are limited to 4 tips. In the genus *Ficus*, polytomies were reduced from 67.568% to 20%. For *Cinnamomum*, all polytomies were fully resolved in species where the *ITS* sequences were available, while *Dipterocarpus* lacked ITS data entirely (Appendix A7, A13). Notably, Chandrasekara et al. (2021) reported that the phylogenetic relationships within *Cinnamomum* from Sri Lanka could not be resolved entirely using *rbcL*, *matK* and *psbA-trnH* barcodes.

DISCUSSION

The phylogeny presented here is the most comprehensive study conducted to date on all woody plant species found in India and Sri Lanka. The trees produced using all approaches yielded a highly resolved, refined, calibrated tree with strong support values. The data were verified and collected manually to minimize errors from automated algorithms. Given the substantial size of the data, managing large alignments becomes increasingly difficult and open to error as the number of sequences and evolutionary divergence rise. Therefore, the alignments were meticulously examined for any errors. Furthermore, the alignments were performed in an order-wise manner to prevent the incorporation of misidentified sequences. Systematic errors were also mitigated by selecting the most advanced phylogenetic tree construction method and the optimal nucleotide substitution model.

According to the Botanic Gardens Conservation International (BGCI) report published in September 2021, out of the world's ~73,000 plant species, India and Sri Lanka encompass 2603 and 877 species, respectively, out of which 18% (469) of Indian species and 46% (404) of Sri Lankan species are threatened. My dataset had a significant number of endemic species. While only 56.43% of combined chloroplast sequence data was available (1246 out of 2208 species) and 61.41% of combined chloroplast and nuclear sequence data (1356 out of 2208 species) was available to construct the supermatrix, the results from the analyses are promising. The placement of major clades aligned with previous studies and was often very strongly supported (Hamzeh & Dayanandan, 2004; Angiosperm Phylogeny Group, 2009).

The reduction in polytomies, or the formation of a high-resolution phylogenetic tree, directly reflects the phylogenetic information contained in a given gene region. *rbcL* has the least phylogenetic information as this region is very conserved, but it is helpful in the order and family-level resolution of phylogeny (Cavender-Bares et al., 2009). *matK* and then *psbA-trnH* gene sequences follow *rbcL* to possess more phylogenetic information (Kang et al., 2017; Yang et al., 2012). When concatenating *rbcL* and *matK* for all the species, including angiosperms and gymnosperms, they created alignments which were easy to manually edit and analyze. For the psbA-trnH intergenic spacer and the ITS1 and ITS2 nuclear regions, order-wise alignments were performed due to their high variability and structural complexity across angiosperm lineages. These regions exhibit extensive indels, sequence divergence, and potential pseudogene insertions, making global alignments across all taxa prone to misalignment and homology errors (Olsson et al., 2022). By aligning sequences within each order, the study maintained alignment accuracy, reduced the likelihood of spurious phylogenetic signals, and enabled more robust tree reconstruction for each clade. For this reason, after *rbcL* and *matK* alignments, *psbA-trnH* alignment for each order was concatenated one after the other, leaving large gaps for the species which did not have any information except for the species for only one order, to generate a supermatrix of 22,090 bp.

However, the phylogenetic tree of *rbcL*, *matK* and *psbA-trnH* was not resolved for 13.48% of taxa. Hence, the internal transcribed spacer (*ITS*) region of the 18S–5.8S–26S nuclear ribosomal region was used. This region is phylogenetically informative and used in a wide range of studies (Cavender-Bares et al., 2009; Kårehed et al., 2008). However, the chloroplast genes data were not concatenated with the nuclear gene region data, as their evolutionary histories may vary. The presence of hybridization and introgression is the most common reason for phylogenetic inconsistency in seed plants (Guo et al., 2022), which can be resolved by comparing nuclear and chloroplast genome sequence-based phylogenies. There are, however, studies that choose more chloroplast genes to increase their resolution and credibility of the phylogenetic study, such as *atpB-rbcL, ndhF, trnL-F, trnS-G* and *ycf1* (Gillespie & Kron, 2013; Guo et al., 2017). The reason for the creation of order-wise trees for the comparison of rDNA with cpDNA is to compare the maternally inherited sequences with the biparentally inherited genome sequences and infer introgression and hybridization.

The posterior probability (PP) plays a large role in determining the robustness of the branch of the phylogenetic tree. I have compared order-wise constructed trees for their resolution of branches and PP. While studying the branch split (cladogenesis) between orders, most branches had a posterior probability of >95%. However, while diverging from Proteales, Buxales and Vitales to the lower clades, the posterior probability of these clades shows 57%, 64% and 53% posterior probability, respectively, in the chloroplast gene tree. Even if the branches were in congruence with the backbone APG III, this displayed poor phylogenetic resolution of branches and can be improved by the availability of sequences with more phylogenetic information and the presence of fewer errors in the sequences (Martín-Hernanz et al., 2019) (Figure 4).

When comparing the arrangement of orders in the inferred tree with the APG backbone tree on the website, the order Cyatheales is the oldest lineage shown in the inferred tree, but it is not included in the APG backbone tree (Angiosperm Phylogeny Group, 2009). While it is not presented visually on the tree, the website mentions it as a sister of Polypodiales, which is also demonstrated by Liu et al. (2018) and Wolf et al. (2015). The second oldest lineage, Gnetales, a lineage historically difficult to resolve in seed plant phylogeny, is shown as the sister to Pinales in both the chloroplast-only (*rbcL* + *matK* + *psbA-trnH*) and combined *(rbcL* + *matK* + *psbA-trnH* + *ITS*) analyses, which is incongruent with the study performed by Smith & Brown (2018). On the contrary, a study by Ran et al. (2018) places this clade as a sister to Pinaceae using the coalescent as well as concatenation approaches of phylogenetic reconstruction. Interestingly, the chloroplast-based phylogeny generated in this study supports the GneCup hypothesis, where Gnetales form a sister clade to non-Pinaceae conifers (e.g., Cupressaceae), aligning with findings from Ran et al. (2018) and Coiro et al. (2022). The persistence of this placement in the concatenated chloroplast + nuclear marker tree suggests that the chloroplast signal dominates due to taxon sampling or marker resolution. Several factors may contribute to the instability of this clade, including the long-branch attraction effects frequently associated with Gnetales, high substitution rates, and conflicting signals between genomic compartments (Ran et al., 2018). A denser sampling of Gnetales taxa, especially with more barcodes from nuclear and mitochondrial regions, is needed to confirm their placement with greater confidence.

In this study, I have compared all the orders for their resolution of branches using cpDNA and rDNA in the direction from the oldest nodes to the most recent. The order of Cycadales, consisting of 3 species, is not resolved by cpDNA (chloroplast DNA), and *ITS* sequences were not available in the database. For that, a similar explanation can be provided that more molecular information for more species would be helpful in its resolution. The next clades, which have *ITS* sequence data – Pinales, Arecales and Zingiberales (Appendix A2, A3, A4), have shown high phylogenetic resolution with the cpDNA, with the branches showing similar divergence with rDNA. The exception seen in Pinales is for *Larix graffiti,* which is more closely related to the genus *Pinus* and *Picea* in the case of cpDNA, while it is paraphyletic when estimated with rDNA. This can be elaborated by the PP (posterior probability) of 58% in the root branch of this species for cpDNA, that is 100% for the rDNA tree. In the case of Arecales, *Nypa fruticans* is closely related to the *Calamus* genus in the cpDNA tree, which is contradicted in rDNA. Here, rDNA and cpDNA form one clade for *Phoenix* but show different placements for *Phoenix paludosa, Phoenix loureiroi* and *Phoenix pusilla*. The genus *Bambusa* in Poales remains very poorly resolved in the case of the cpDNA tree (Appendix A5) while portraying a resolution in branches only of *Bambusa tulda* and *Bambusa nutans* in *ITS* with >95% PP. *Gagintochloa ablociliata* in the *ITS* is closely related to the last two mentioned species, which could result from introgression/hybridization. One of the least resolved genera in the tree, *Cinnamomum,* is completely seen to be resolved using *ITS* sequences with the addition of more *Litsea* species in the order Laurales (Appendix A7). However, *Litsea* does not form a monophyletic group in either of the phylogenetic trees and shows poor support of branches, which warrants a closer assessment of this genus. Moreover, constraining the orders to each genus could help mitigate the issue. *Machilus*, *Alseosaphne* and *Neolitsea* are not a monophyletic group in the cpDNA tree, which makes it tricky to choose the best gene region that can resolve the order Laurales. Interestingly, in the order Magnoliales (Appendix A6), the genus *Magnolia* is present as a monophyletic group in cpDNA with five polytomies out of 11 species, but it cannot be resolved using the *ITS* sequence. Another interesting observation made in the rDNA tree is that Annona forms a paraphyletic group, contradictory to the cpDNA Magnoliales tree. Discussing the clade of Dilleniales, *Schumacheria castaneifolia* forms a monophyletic clade with *Dillenia triquetra,* which contradicts the research conducted by Ran (2009) (Appendix A11). Nuclear phylogeny provides better support for the clades of Sapindales with the resolution and depiction of the monophyly of *Acer, Sapindus* and *Aglaia* clades (Appendix A12). In Brassicales, *Capparis* fails to form a monophyletic clade for the *ITS* gene region, and cpDNA has more phylogenetic information in this case (Appendix A14). Malpighiales, the order with the largest species in the dataset, represents discordance of the family-level resolution in the phylogeny, which was compared with the GBOTB phylogenetic tree for Malpighiales by Smith and Brown (2018), made via V.Phylomaker2. Tanglegrams are made with the GBOTB tree compared with the cpDNA & rDNA trees (Appendices 33 and 34). This comparison reveals that cpDNA shows more congruence with the GTOTB tree, with a discrepancy in a few taxa. While the tanglegram fails to show this, the resolution of higher branches is not present in the inferred trees (cpDNA & rDNA) up to the family level. Phylogenetic signals are improved in rDNA in the case of other rosids – Fagales and Celastrales, with the formation of monophyly of the genus *Elaeodendron*, *Lithocarpus* and *Quercus* (Appendix A18, A20). Asteroids like Myrtales also show similar outcomes in which the clades of *Eucalyptus*, *Syzygium* and *Terminalia* are more refined using *ITS* data (Appendix A23). Ericales and Lamiales, on the other hand, have more phylogenetic information in their cpDNA (Appendix A24, A26). While Lamiales' cpDNA resolves the higher branches better, the opposite is seen in Gentianales (Appendix A24, A27). The predicted outcome of higher resolution using *ITS* sequence data is seen in Boraginales, Aquifoliales and Apiales (Appendix A28, A29, A30).

The overall pattern observed in the order-wise and combined phylogenetic analyses is that the most phylogenetic information is present in the rDNA gene among the compared chloroplast gene regions (Kårehed et al., 2008). Despite the improved resolution achieved through the inclusion of nuclear *ITS* regions, several limitations remain that may affect the accuracy and interpretation of the resulting phylogenetic trees. First, the availability of sequence data across all five genetic regions was uneven. Many species had incomplete barcode representation, especially within nuclear regions, which limited their inclusion in the final supermatrix. This inconsistency in taxon coverage may lead to reduced clade support or biased topological relationships in underrepresented lineages (Bininda-Emonds et al., 2002). Second, the ITS2 region, while informative at shallow taxonomic levels, is prone to intragenomic variation—where multiple ITS2 copies within the same individual can differ significantly—leading to alignment ambiguity and reduced reliability in phylogenetic inference (Sokołowska et al., 2022).

The inherently high sequence variability and frequent indels in ITS2 make both alignment and trimming challenging; conserved flanking regions—with the intercalated 5.8S rRNA—can inadvertently obscure genetic divergence due to alignment smoothing (Osuna-Mascaró et al., 2022; Sokołowska et al., 2022). Together, these factors suggest that although *ITS* enhances resolution, it necessitates careful sequence curation and might benefit from complementing data from additional nuclear or mitochondrial loci (Sokołowska et al., 2022). Improving marker sampling and reducing *ITS*-specific limitations would significantly strengthen the fidelity of phylogenetic reconstructions in future work.

Along with this, missing and incomplete data can have negative effects on the phylogenetic tree reconstruction. The collection of plant genome sequences is uncoordinated and opportunistic, with some species being overrepresented in the databases and others being drastically underrepresented. This results in a patchwork of coverage for the data accumulation, neglecting a significant number of taxonomic groups (Bininda-Emonds et al., 2002). The selection of an appropriate and accurate approach is necessary to increase phylogenetic resolution. My methodology focuses on the supermatrix or the concatenation approach rather than the supertree approach (Gadagkar et al., 2004; Hinchliff & Roalson, 2012). The approaches have been thoughtfully selected and manually analyzed to result in the most accurate tree. Hinchliff & Roalson (2012) show that filtering out some least stable taxa from the large-scale phylogeny can enhance the resolution of a phylogenetic tree, and the manual editing performed in this study provides more accuracy over the studies performed using automated approaches, no manual inspection. Similar to this study, there is research that constantly aims to resolve the branches with extensive conflicts and produce a phylogenetic tree which can help systematics in understanding key biological questions (Smith et al., 2019). The evolutionary understanding also differs on the scale of the phylogenetic analysis performed. The large phylogenetic trees can give insights into macroevolutionary patterns and the fundamental processes and can provide different perspectives that can help answer different questions; they do not come without their own challenges (Smith & Brown, 2018). The large-scale trees are less susceptible to stochastic errors, but they have an increased risk of systematic errors (Young & Gillung, 2019). The small-scale and large-scale phylogenetic trees constructed in this study will help provide the answers to the evolutionary questions on both levels, help understand and reduce the challenges of the large-scale phylogeny and can further help in developing various evolutionary hypotheses (Smith & Brown, 2018).

While this study has minimized errors through rigorous data curation, several limitations suggest valuable avenues for improvement. First, sampling was geographically constrained to the plots shown in Figure 2, leaving much of the Indian subcontinent—and most of the island of Sri Lanka—underrepresented. Expanding sampling efforts to cover additional plots across both regions would likely increase species representation and enhance the comprehensiveness of the phylogenetic framework (National Red List 2012). Targeted field collection, especially of taxa currently resolved only to family or genus level, and their identification via DNA barcoding, would further improve taxonomic breadth and inclusion. Second, the selection of plants in only one plot in Sri Lanka limited the regional representation of unique endemic species, currently missing from the 2012 Red List. Incorporating multiple plots across different ecological zones would not only enrich species cover but also support conservation-focused phylogenetic mapping. Finally, although traditional supermatrix assembly demands substantial manual effort, especially for richly diverse regions, automated tools—such as PyPHLAWD (Smith & Walker, 2018), PUmPER (Izquierdo-Carrasco et al., 2014), PhyLoTa (Sanderson et al., 2008), SUMAC

(Freyman, 2015), PhyloGenerator (Pearse & Purvis, 2013) and SUPERSMART (Antonelli et al., 2016)—offer scalable solutions for large-scale phylogenetic reconstruction. Their use could expedite taxon sampling, alignment, and tree generation across thousands of taxa. Moreover, the emergence of artificial intelligence–powered methods (e.g., Mo et al., 2024) signals the accelerating potential for resolving complex phylogenetic relationships with minimal manual intervention.

FIGURES AND TABLES

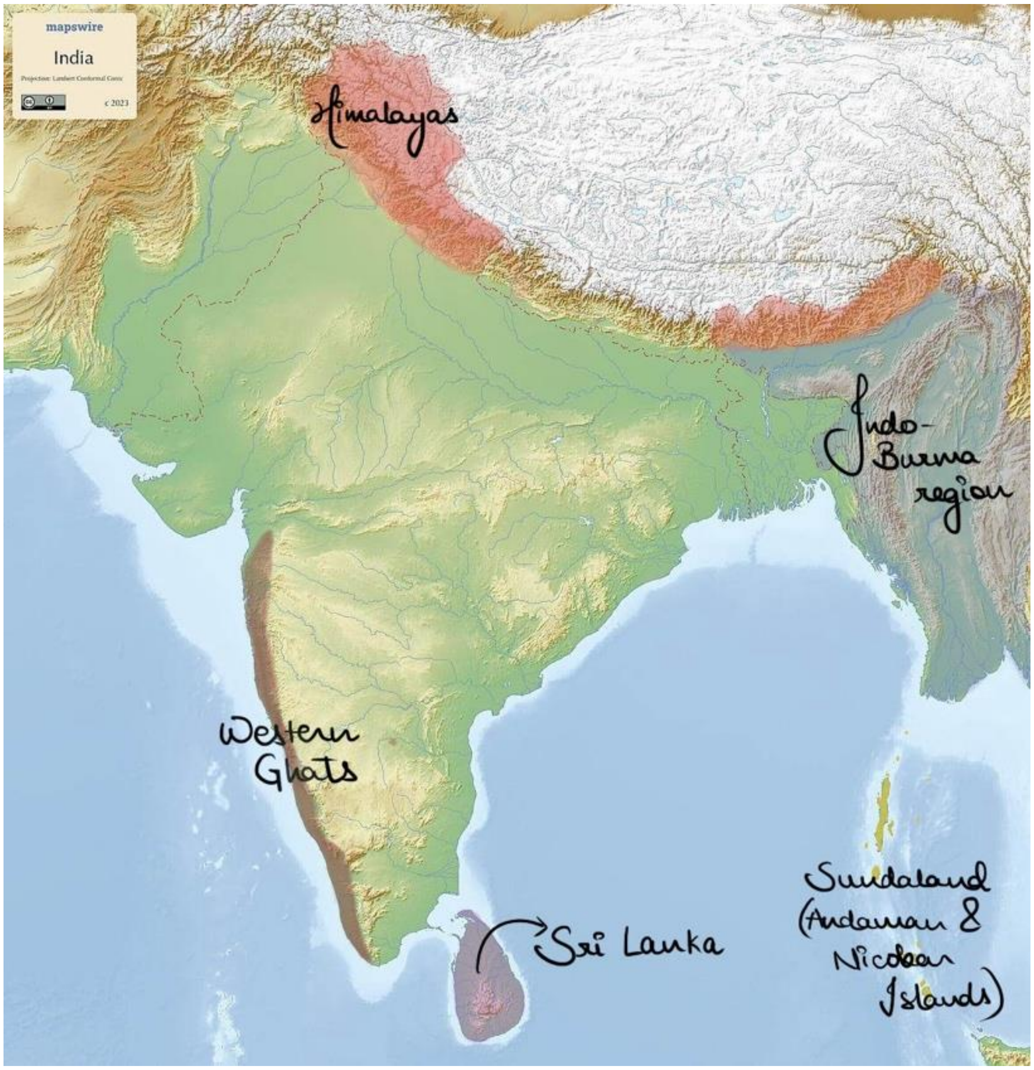

Figure 1: Map of the Indian subcontinent highlighting four biodiversity hotspots: Eastern Himalayas, Western Ghats (including Sri Lanka), Indo-Burma region, and the Sundaland (Andaman and Nicobar Islands). Colours represent regions with concentrated biodiversity research (adapted from Free Maps of India, n.d.; Sen et al., 2019).

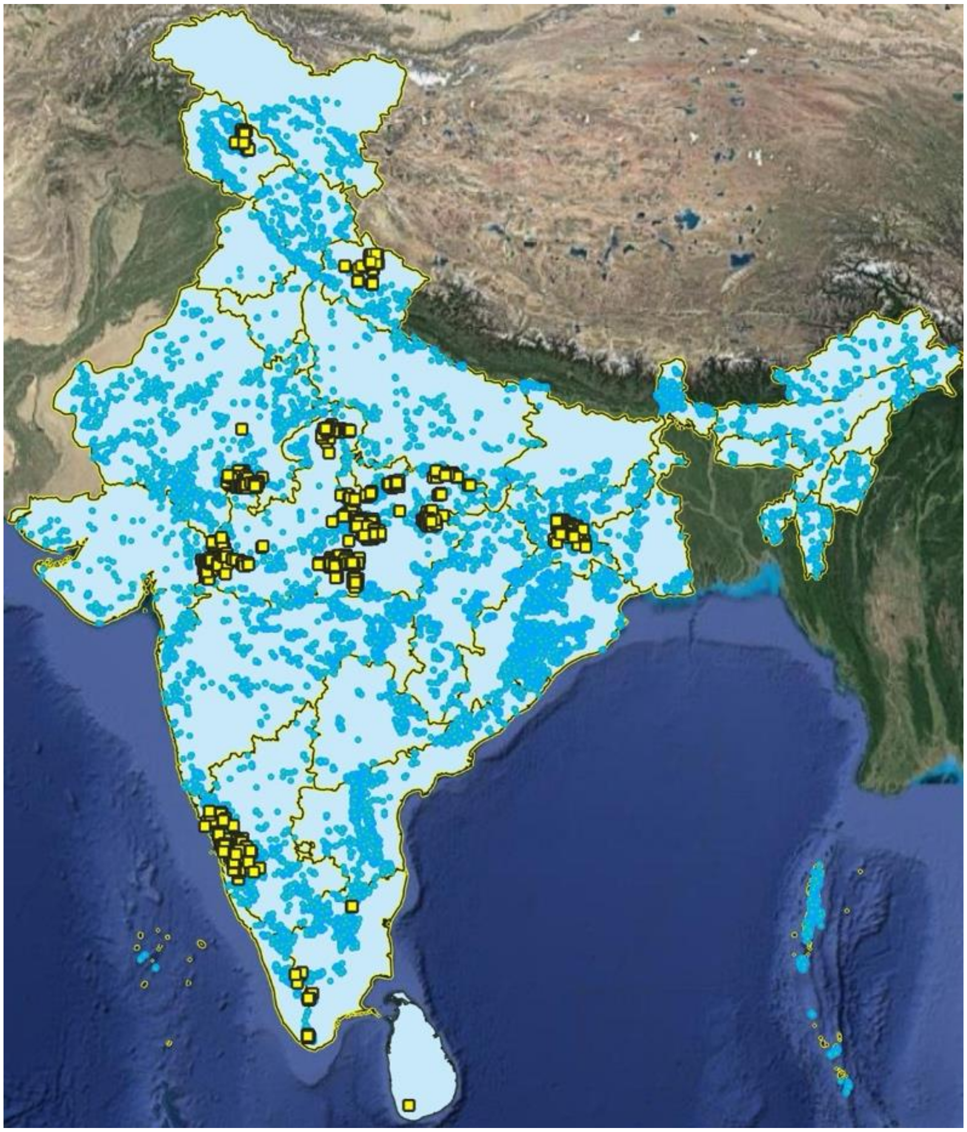

Figure 2: Locations of 20 m × 20 m forest plots from which woody plant species were sampled. Blue squares represent sites surveyed by Dr. Parth Sarathi Roy (ISD, ICRISAT), and yellow squares represent those sampled by Dr. Mohammad Latif Khan (NERIST, Arunachal Pradesh, India).

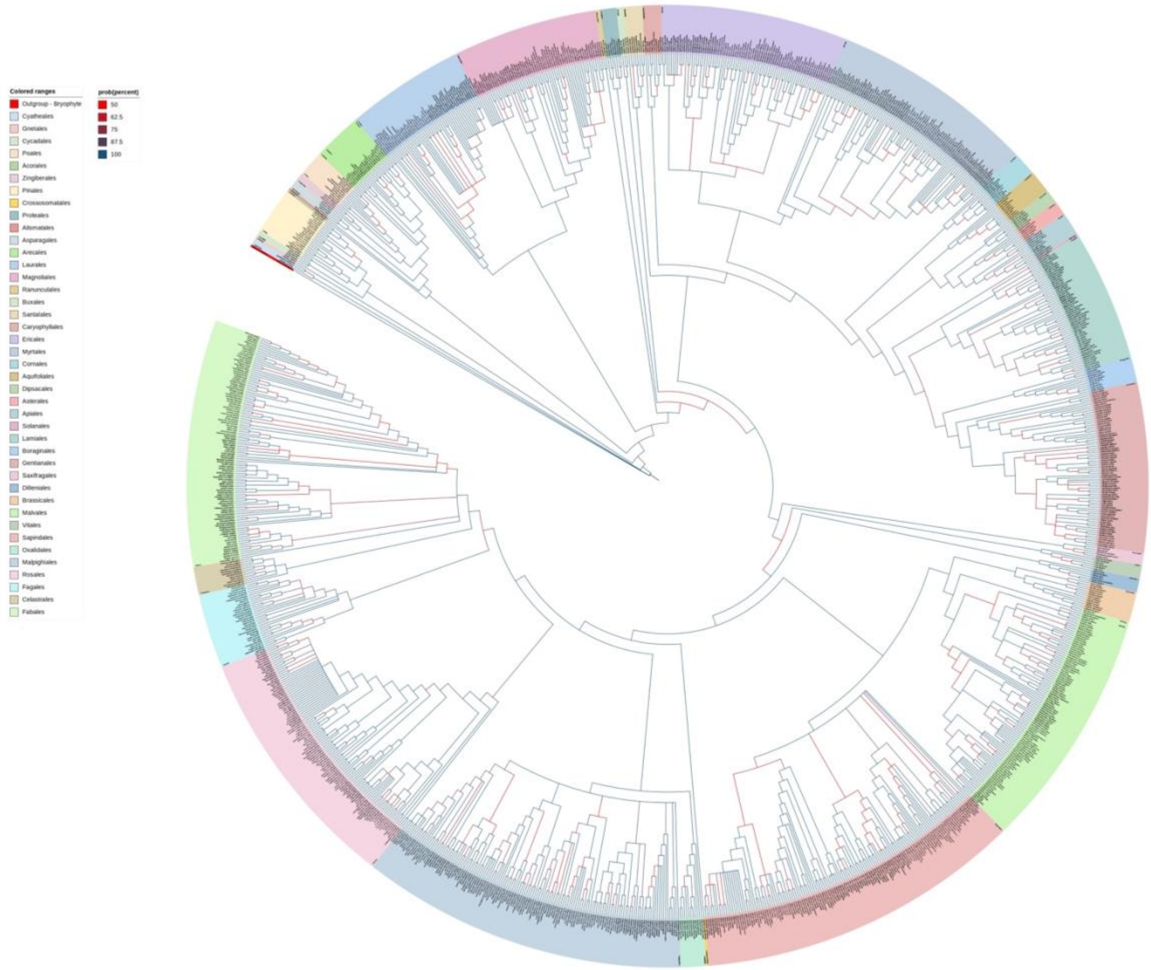

Figure 3: Phylogenetic tree of woody plant species of India and Sri Lanka reconstructed through Bayesian Inference of the data of three chloroplast genes (*rbcL, matK* and *psbA-trnH*). The circular topology phylogeny is made in iToL (Interactive Tree of Life) online software, and it depicts orders of various colours on the tips, formed with the backbone tree of the Angiosperm Phylogeny Group (APG III) with the estimation of posterior probability as a measure of phylogenetic robustness of branches in the form of a range of red and blue colours on the branches (presented on the label) (Letunic & Bork, 2006; Angiosperm Phylogeny Group, 2009).

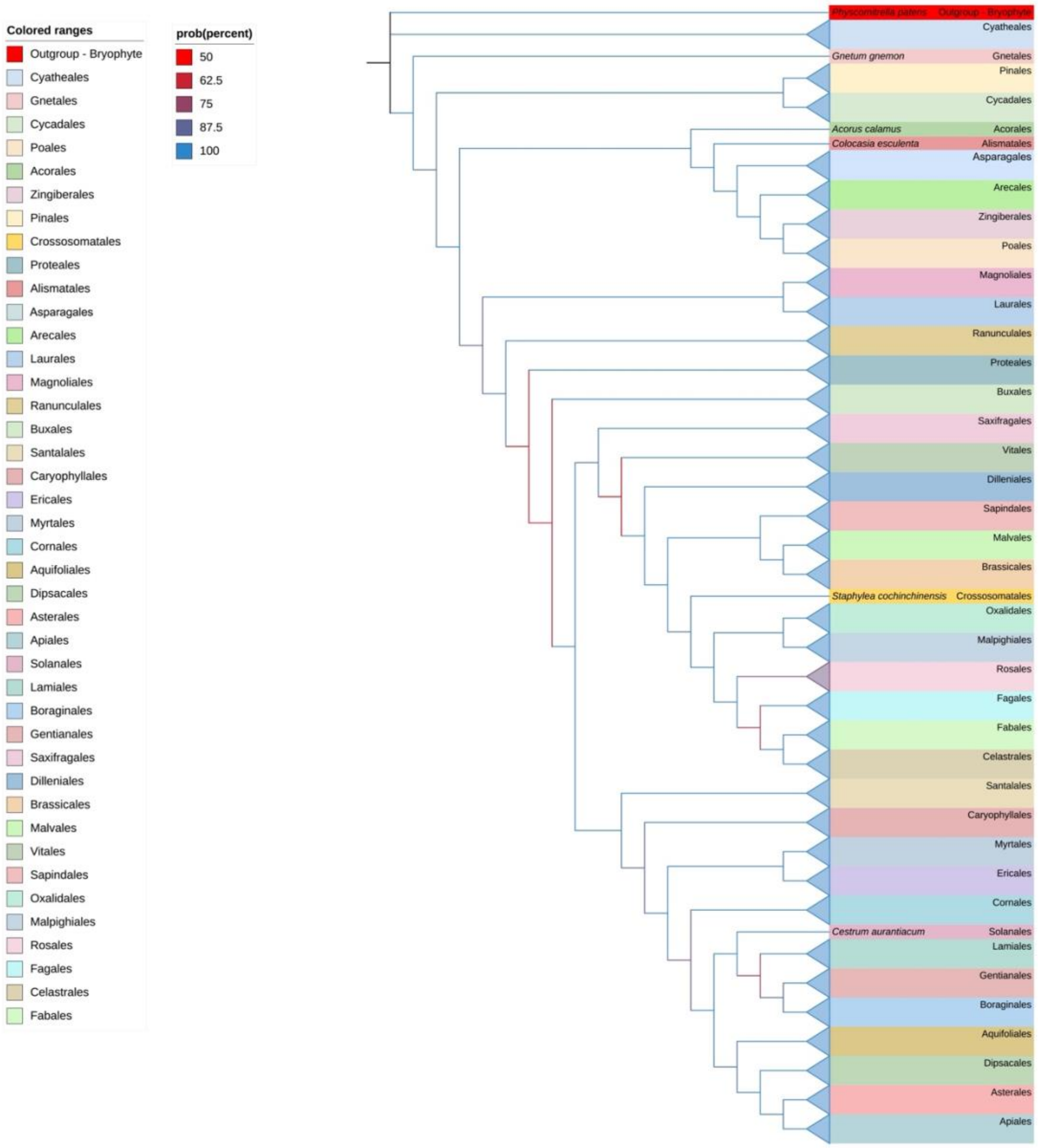

Figure 4: Phylogenetic tree representing the Orders from the dataset of woody plant species of India and Sri Lanka formed using Bayesian Inference of three chloroplast genes (*rbcL*, *matK* and *psbA*-*trnH*) in the form of collapsed branches in a cladogram for each clade. The tip of each clade is coloured according to the Order. The Outgroup selected is a Bryophyte, *Physcomitrella patens,* from the Order Funariales, and the colour of the branches indicates the range of posterior probabilities (PP) as a measure of phylogenetic robustness of the Order-Level branches (Letunic & Bork, 2006; Angiosperm Phylogeny Group, 2009).

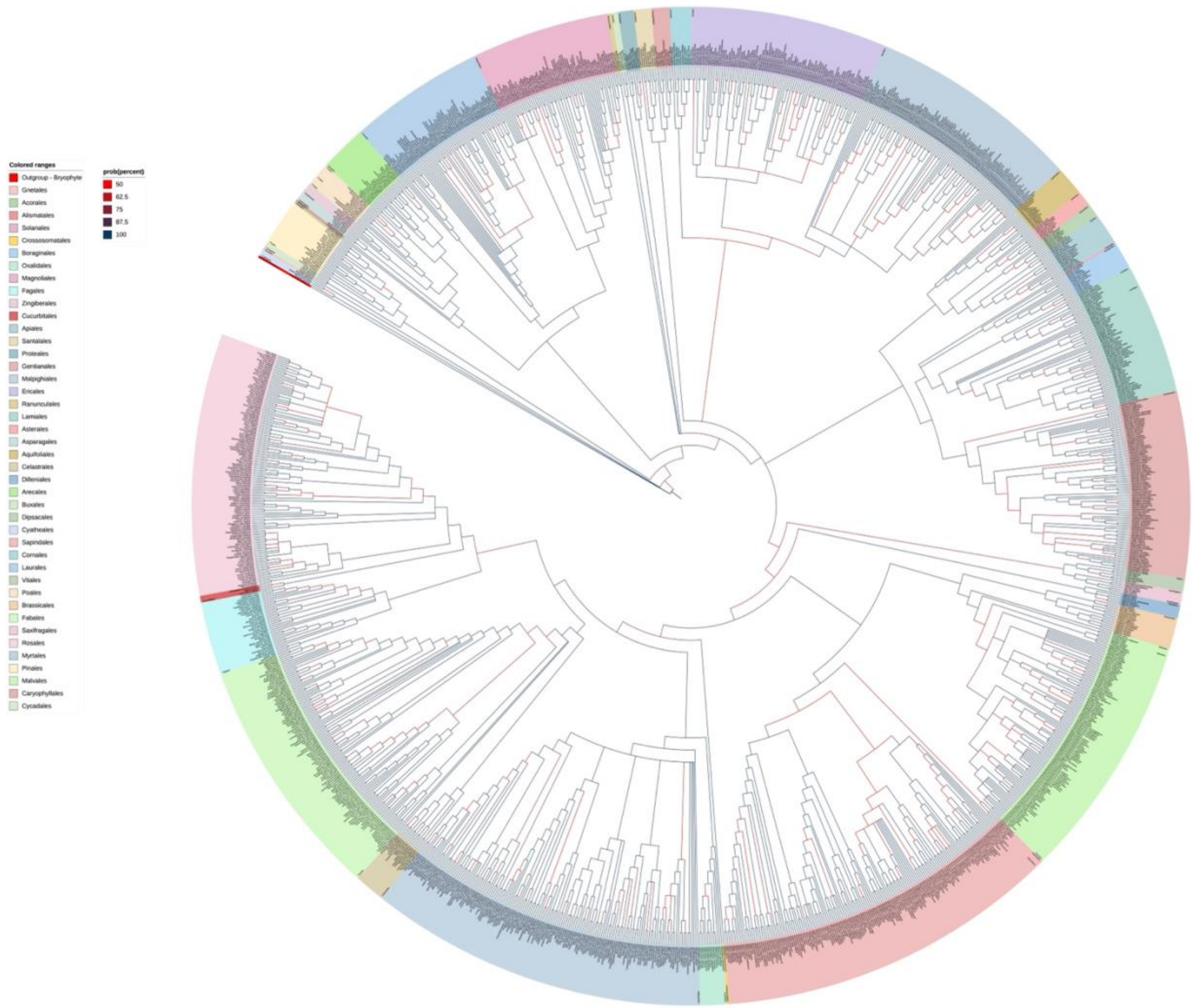

Figure 5: Phylogenetic tree of woody plant species of India and Sri Lanka formed using Bayesian Inference of 3 chloroplast genes (*rbcL*, *matK* and *psbA-trnH*), where concatenation of *trnH* is performed one by one per order. The circular topology phylogeny is made in iToL (Interactive Tree of Life) online software, and it depicts orders of various colours on the tips, formed with the backbone tree of the Angiosperm Phylogeny Group (APG III) with the estimation of posterior probability as a measure of phylogenetic robustness of branches in the form of a range of red and blue colours on the branches (presented on the label) (Letunic & Bork, 2006; Angiosperm Phylogeny Group, 2009).

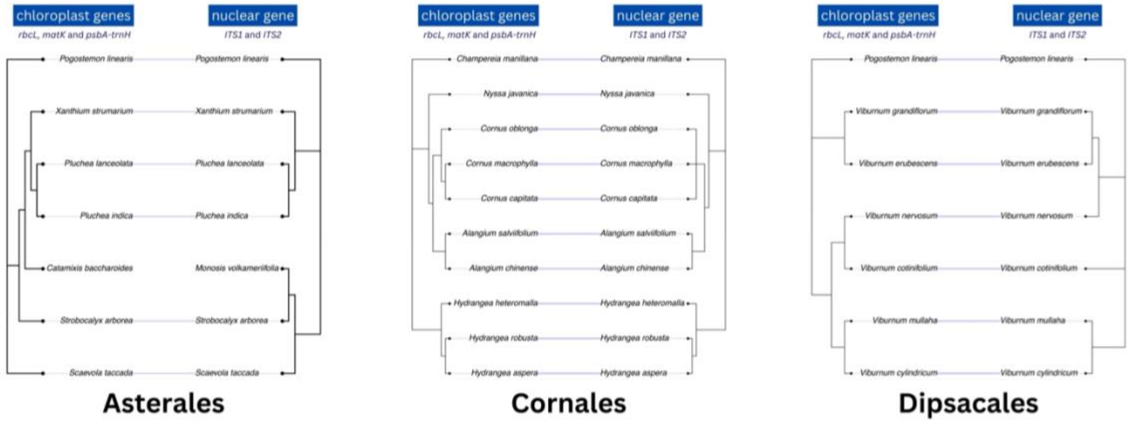

Figure 6: Comparison of the cladograms as 'tanglegrams' of the orders Asterales, Cornales and Dipsacales to estimate the phylogenetic differences in the chloroplast gene regions (*rbcL, matK* and *psbA-trnH*) and nuclear gene regions (*ITS1* and *2*) visualized using the cophylo function in the R package "ape" (Paradis and Schliep, 2019).

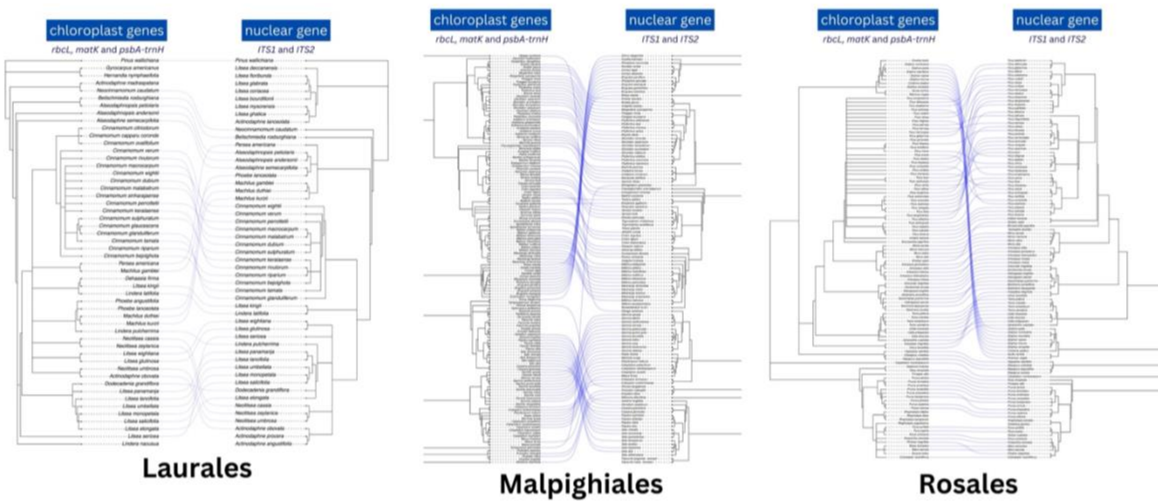

Figure 7: Comparison of the cladograms as 'tanglegrams' of the orders Laurales, Malpighiales and Rosales to estimate the phylogenetic differences in the chloroplast gene regions (*rbcL, matK* and *psbA-trnH*) and nuclear gene regions (*ITS1* and *2*) visualized using the cophylo function in the R package "ape" (Paradis and Schliep, 2019).

Table 1: Orders included in the phylogenetic analyses and their representation in chloroplast- and nuclear-based gene datasets. Orders used in comparative analysis between gene regions are indicated.

Orders of Chloroplast Gene Trees	Orders of Nuclear Gene Trees	Orders Compared for Trees
Apiales	Apiales	Apiales
Aquifoliales	Aquifoliales	Aquifoliales
Arecales	Arecales	Arecales
Asparagales	--	--
Asterales	Asterales	Asterales
Boraginales	Boraginales	Boraginales
Brassicales	Brassicales	Brassicales
--	Buxales	--
Caryophyllales	Caryophyllales	Caryophyllales
Celastrales	Celastrales	Celastrales
Cornales	Cornales	Cornales
--	Cucurbitales	--
Cycadales	--	--
Dilleniales	Dilleniales	Dilleniales
Dipsacales	Dipsacales	Dipsacales
Ericales	Ericales	Ericales
Fabales	Fabales	Fabales
Fagales	Fagales	Fagales
Gentianales	Gentianales	Gentianales
Lamiales	Lamiales	Lamiales
Laurales	Laurales	Laurales
Magnoliales	Magnoliales	Magnoliales
Malpighiales	Malpighiales	Malpighiales
Malvales	Malvales	Malvales
Myrtales	Myrtales	Myrtales
Oxalidales	Oxalidales	Oxalidales
Pinales	Pinales	Pinales
Poales	Poales	Poales
Proteales	Proteales	Proteales
Rosales	Rosales	Rosales
Santalales	Santalales	Santalales
Sapindales	Sapindales	Sapindales
Saxifragales	Saxifragales	Saxifragales
Vitales	Vitales	Vitales
Zingiberales	Zingiberales	Zingiberales

Table 2: Outgroup taxa selected for each plant order analyzed in the order-wise phylogenetic reconstructions. Outgroups were chosen based on their close evolutionary relationship to the ingroup clade, following the APG III classification system, to facilitate accurate tree rooting and evolutionary comparisons (Angiosperm Phylogeny Group, 2009).

Order name	Species of Outgroup	Order of selected Outgroup
Apiales	*Pogostemon_linearis*	Lamiales
Aquifoliales	*Pogostemon_linearis*	Lamiales
Arecales	*Actinodaphne_obovata*	Laurales
Asparagales	*Actinodaphne_obovata*	Laurales
Asterales	*Pogostemon_linearis*	Lamiales
Boraginales	*Diospyros_ebenum*	Ericales
Brassicales	*Calophyllum_membranaceum*	Malpighiales
Buxales	*Meliosma_dilleniifolia*	Proteales
Caryophyllales	*Champereia_manillana*	Santalales
Celastrales	*Leea_guineensis*	Vitales
Cornales	*Champereia_manillana*	Santalales
Cucurbitales	*Calophyllum_membranaceum*	Malpighiales
Cycadales	*Pteridium_aquilinum*	Polypodiales
Dilleniales	*Meliosma_dilleniifolia*	Proteales
Dipsacales	*Pogostemon_linearis*	Lamiales
Ericales	*Lepionurus_sylvestris*	Santalales
Fabales	*Calophyllum_membranaceum*	Malpighiales
Fagales	*Calophyllum_membranaceum*	Malpighiales
Gentianales	*Lepionurus_sylvestris*	Santalales
Lamiales	*Diospyros_ebenum*	Ericales
Laurales	*Pinus_wallichiana*	Pinales
Magnoliales	*Pinus_wallichiana*	Pinales
Malpighiales	*Meliosma_dilleniifolia*	Proteales
Malvales	*Calophyllum_membranaceum*	Malpighiales
Myrtales	*Calophyllum_membranaceum*	Malpighiales
Oxalidales	*Leea_guineensis*	Vitales
Pinales	*Pteridium_aquilinum*	Polypodiales
Poales	*Actinodaphne_obovata*	Laurales
Proteales	*Bambusa_bambos*	Poales
Rosales	*Calophyllum_membranaceum*	Malpighiales
Santalales	*Meliosma_dilleniifolia*	Proteales
Sapindales	*Calophyllum_membranaceum*	Malpighiales
Saxifragales	*Meliosma_dilleniifolia*	Proteales
Vitales	*Dillenia_indica*	Dilleniales
Zingiberales	*Actinodaphne_obovata*	Laurales
Entire Tree	***Physcomitrella_patens***	**Funariales**

Table 3: Best-fit nucleotide substitution models for each genetic region (*rbcL, matK, psbA-trnH, ITS1 & ITS2*) as identified by jModelTest, with results from four statistical criteria: AIC = Akaike Information Criterion, BIC = Bayesian Information Criterion, AICc = Corrected Akaike Information Criterion, and DT = Decision Theory Criterion. The analyses were conducted in the CIPRES Science Gateway (Darriba et al., 2012; Posada, 2008).

rbcL	
Criterion	Model
AIC	TVM+I+G
BIC	TVM+I+G
AICc	TVM+I+G
DT	TVM+I+G
matK	
Criterion	Model
AIC	TVM+G
BIC	TVM+G
AICc	TVM+G
DT	TVM+G
psbA-trnH	
Criterion	Model
AIC	GTR+I+G
BIC	TVM+G
AICc	GTR+I+G
DT	TVM+G
ITS	
Criterion	Model
AIC	GTR+I+G
BIC	GTR+I+G
AICc	GTR+I+G
DT	GTR+I+G

Table 4: The comparison of the number of sequences present for each genomic region and concatenated data with their respective pairwise identity and sequence length of the trimmed alignments. The maximum and minimum sequence lengths present for a given genomic region are based on the retrieved GenBank sequences (http://www.ncbi.nlm.nih.gov) (Appendix A1).

Name	**No. of Sequences**	**% GC**	**% Identical Sites**	**% Pairwise Identity**	**Max Sequence Length**	**Min Sequence Length**	**Sequence Length**
rbcL	1104	43.80%	22.60%	91.80%	685	117	700
matK	1052	33.70%	1.40%	79.00%	1097	239	1599
trnH	786	27.70%	2.30%	29.40%	904	120	4546
ITS	985	61.10%	1.40%	48.20%	1792	171	3754
rbcL_matK	1218	38.10%	5.10%	76.40%	1774	294	2299
rbcL_matK_trnH	1246	36.20%	2.80%	62.30%	2486	285	28090
rbcL_matK_trnH_ITS	1356	42.50%	1.30%	52.30%	3494	274	10599

Table 5: Number of species from each plant order included in the final dataset (provided in Appendix 1). These species were used in the construction of the multilocus phylogenetic tree and represent a diverse set of woody plants distributed across tropical and subtropical regions of India and Sri Lanka.

Order	**Number of Species**
Malpighiales	308
Sapindales	218
Ericales	207
Malvales	171
Gentianales	166
Myrtales	155
Rosales	155
Fabales	137
Laurales	135
Magnoliales	106
Lamiales	84
Fagales	44
Oxalidales	32
Celastrales	29
Aquifoliales	22
Arecales	22
Apiales	21
Pinales	21

Order	Number of Species
Brassicales	19
Boraginales	17
Cornales	14
Poales	13
Santalales	12
Asterales	11
Caryophyllales	10
Proteales	10
Saxifragales	8
Vitales	8
Dilleniales	7
Dipsacales	6
Asparagales	5
Zingiberales	5
Cyatheales	5
Buxales	3
Cucurbitales	3
Cycadales	3
Crossomatales	3
Icacinales	2
Acorales	1
Alismatales	1
Solanales	1
Piperales	1
Liliales	1
Gnetales	1
Icacinales	1
Austrobaileyales	1
Zygophyllales	1

Table 6: Complete list of families and their corresponding taxonomic orders included in the phylogenetic analysis. This table provides the hierarchical taxonomic structure used to organize species in the combined tree and supports taxonomic validation and APG III-based tree constraints.

Order	Family
Acorales	Acoraceae
Alismatales	Araceae
Apiales	Araliaceae
	Pittosporaceae
Aquifoliales	Aquifoliaceae
	Cardiopteridaceae
	Helwingiaceae
	Stemonuraceae

Order	**Family**
Arecales	Arecaceae
Asparagales	Asparagaceae
	Iridaceae
	Orchidaceae
Asterales	Asteraceae
	Compositae
	Goodeniaceae
Austrobaileyales	Schisandraceae
Boraginales	Boraginaceae
Brassicales	Capparaceae
	Caricaceae
	Moringaceae
	Salvadoraceae
Buxales	Buxaceae
Caryophyllales	Amaranthaceae
	Ancistrocladaceae
	Nyctaginaceae
	Plumbaginaceae
	Tamaricaceae
Celastrales	Celastraceae
Cornales	Cornaceae
	Hydrangeaceae
Crossosomatales	Staphyleaceae
Cucurbitales	Anisophylleaceae
	Begoniaceae
	Tetramelaceae
Cyatheales	Cyatheaceae
Cycadales	Cycadaceae
Dilleniales	Dilleniaceae
Dipsacales	Adoxaceae
Ericales	Actinidiaceae
	Ebenaceae
	Ericaceae
	Lecythidaceae
	Pentaphylacaceae
	Primulaceae
	Sapotaceae
	Styracaceae
	Symplocaceae
	Theaceae
Fabales	Fabaceae
	Polygalaceae
Fagales	Betulaceae
	Casuarinaceae
	Fagaceae
	Juglandaceae
	Myricaceae

Order	Family
Gentianales	Apocynaceae
	Loganiaceae
	Rubiaceae
Gnetales	Gnetaceae
Icacinales	Icacinaceae
Lamiales	Acanthaceae
	Bignoniaceae
	Gesneriaceae
	Lamiaceae
	Linderniaceae
	Oleaceae
	Paulowniaceae
	Scrophulariaceae
	Verbenaceae
Laurales	Hernandiaceae
	Lauraceae
Liliales	Smilacaceae
Magnoliales	Annonaceae
	Magnoliaceae
	Myristicaceae
Malpighiales	Achariaceae
	Calophyllaceae
	Centroplacaceae
	Chrysobalanaceae
	Clusiaceae
	Dichapetalaceae
	Erythroxylaceae
	Euphorbiaceae
	Hypericaceae
	Malpighiaceae
	Ochnaceae
	Peraceae
	Phyllanthaceae
	Picrodendraceae
	Putranjivaceae
	Rhizophoraceae
	Salicaceae
	Violaceae
Malvales	Bixaceae
	Dipterocarpaceae
	Malvaceae
	Muntingiaceae
	Thymelaeaceae
Myrtales	Combretaceae
	Lythraceae
	Melastomataceae
	Myrtaceae
	Penaeaceae

Order	Family
Oxalidales	Connaraceae
	Elaeocarpaceae
	Oxalidaceae
Pinales	Cupressaceae
	Pinaceae
	Podocarpaceae
	Taxaceae
Piperales	Aristolochiaceae
Poales	Poaceae
Proteales	Proteaceae
	Sabiaceae
Ranunculales	Berberidaceae
	Menispermaceae
Rosales	Cannabaceae
	Elaeagnaceae
	Moraceae
	Rhamnaceae
	Rosaceae
	Ulmaceae
	Urticaceae
Santalales	Olacaceae
	Opiliaceae
	Santalaceae
Sapindales	Anacardiaceae
	Burseraceae
	Meliaceae
	Rutaceae
	Sapindaceae
	Simaroubaceae
Saxifragales	Altingiaceae
	Daphniphyllaceae
	Grossulariaceae
	Hamamelidaceae
	Iteaceae
Solanales	Solanaceae
Vitales	Vitaceae
Zingiberales	Marantaceae
	Musaceae
	Zingiberaceae
Zygophyllales	Zygophyllaceae

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APPENDICES

Appendix Al: Dataset of species names, their accession numbers collected from NCBI GenBank (http://www.ncbi.nlm.nih.gov) and their Families & Orders according to Angiosperm Phylogeny Group III, used to generate all the phylogenetic trees in this study (Sayers et al., 2019; Stevens, P. F., 2001 onwards).

species names	***rbcL***	***matK***	***psbA***	***ITS1***	***ITS2***	**Family**	**Order**
Acorus_calamus	MF694654	JF953049	EU814675	OQ028684	OQ028684	Acoraceae	Acorales
Colocasia_esculenta	GU135276	GU135110	MH837794	MH558629	MH558629	Araceae	Alismatales
Aralia_leschenaultii	KX527220	KX526525	KU246181	AY233317	AY233317	Araliaceae	Apiales
Aralia_subcordata				DQ007357	DQ007357	Araliaceae	Apiales
Brassaiopsis_hainla				AY389028	AY389028	Araliaceae	Apiales
Brassaiopsis_mitis				AF242235	AF242235	Araliaceae	Apiales
Eleutherococcus_trifoliatus	MH657769		MK993030	MK978531	MK978531	Araliaceae	Apiales
Gamblea_ciliata	MH657843	MH659359	MF785885		MF785579	Araliaceae	Apiales
Heptapleurum_capitatum						Araliaceae	Apiales
Heptapleurum_heterobotryum						Araliaceae	Apiales
Heptapleurum_racemosum						Araliaceae	Apiales
Heptapleurum_stellatum						Araliaceae	Apiales
Heteropanax_fragrans	JQ933360	KR530932	MK993037	JX106276	JX106276	Araliaceae	Apiales
Macropanax_dispermus	JQ933394	KR531127	GU054797	GU054607	GU054607	Araliaceae	Apiales
Macropanax_undulatus	KR529641	KR531134	KU246171	KU246143	KU246143	Araliaceae	Apiales
Merrilliopanax_alpinus				AY233309	AY233309	Araliaceae	Apiales
Trevesia_palmata	U50258	GQ434261	KF591517	KF591488	KF591488	Araliaceae	Apiales
Pittosporum_ceylanicum						Pittosporaceae	Apiales
Pittosporum_dasycaulon		MG737442				Pittosporaceae	Apiales

Pittosporum_ferrugineum	KM895654	KM894548		AY829032	AY829032	Pittosporaceae	Apiales
Pittosporum_napaulense	MH113399					Pittosporaceae	Apiales
Pittosporum_neelgherrense						Pittosporaceae	Apiales
Pittosporum_tetraspermum						Pittosporaceae	Apiales
Ilex_denticulata	KX897097			MT114121	MT114121	Aquifoliaceae	Aquifoliales
Ilex_dipyrena	KX897060			MT227191	MT227191	Aquifoliaceae	Aquifoliales
Ilex_embelioides				MN689071	MN689071	Aquifoliaceae	Aquifoliales
Ilex_excelsa	JF942002	JF954097		MT227195	MT227195	Aquifoliaceae	Aquifoliales
Ilex_khasiana	MK091520	MH814702		MH266092	MH266092	Aquifoliaceae	Aquifoliales
Ilex_kingiana	FJ394621			FJ394692	FJ394692	Aquifoliaceae	Aquifoliales
Ilex_knucklesensis	KY627506	MG718839				Aquifoliaceae	Aquifoliales
Ilex_malabarica						Aquifoliaceae	Aquifoliales
Ilex_odorata						Aquifoliaceae	Aquifoliales
Ilex_sikkimensis				ON758426	ON758426	Aquifoliaceae	Aquifoliales
Ilex_triflora	KP094397	KP093476	KP095153	MT114127	MT114127	Aquifoliaceae	Aquifoliales
Ilex_umbellulata	KX897058			MT114129	MT114129	Aquifoliaceae	Aquifoliales
Ilex_venulosa	MK091511	MH814693				Aquifoliaceae	Aquifoliales
Ilex_walkeri						Aquifoliaceae	Aquifoliales
Ilex_zeylanica						Aquifoliaceae	Aquifoliales
Gonocaryum_lobbianum						Cardiopteridacea e	Aquifoliales
Helwingia_himalaica				MT227172	MT227172	Helwingiaceae	Aquifoliales
Codiocarpus_andamanicus						Stemonuraceae	Aquifoliales
Gomphandra_comosa						Stemonuraceae	Aquifoliales
Gomphandra_coriacea						Stemonuraceae	Aquifoliales
Gomphandra_tetrandra	KR529402	KR530911	KR533663	KR532199	KR532199	Stemonuraceae	Aquifoliales
Stemonurus_apicalis						Stemonuraceae	Aquifoliales
Areca_catechu	MK753924	KX783635	MK756929			Arecaceae	Arecales

Areca_triandra	MK753941	AY952428	MK756924	AB271414	AB271414	Arecaceae	Arecales
Arenga_pinnata	AY012478	HQ720243	JF345018	JF344900	JF344900	Arecaceae	Arecales
Arenga_wightii	JF344836	JF344976	JF345043	JF344910	JF344910	Arecaceae	Arecales
Borassus_flabellifer	AY012469	HQ720244	MK756806			Arecaceae	Arecales
Calamus_erectus	JQ042036	JQ041985	JQ042087	MK683407	MK683407	Arecaceae	Arecales
Calamus_rotang	JQ906808	MG907438	MG907444		KJ532877	Arecaceae	Arecales
Caryota_mitis	OL536805	KX783645	JF345055	JF344921	MK692468	Arecaceae	Arecales
Caryota_obtusa	MK753524	MK705137	MK756722	JF344928	JF344928	Arecaceae	Arecales
Caryota_urens	JQ734494	MK705128	JF345069	MK683446	MK683446	Arecaceae	Arecales
Cocos_nucifera	AY012507	KX783653	MH547562			Arecaceae	Arecales
Corypha_umbraculifera	MK753393	HQ720271	MK756970	MK683223	MK683223	Arecaceae	Arecales
Licuala_peltata	MK753474	HQ720290	MK756434	MK683137	MK683137	Arecaceae	Arecales
Licuala_spinosa		HQ720292				Arecaceae	Arecales
Livistona_jenkinsiana	MK753423	HQ720190	MK756445			Arecaceae	Arecales
Nypa_fruticans	AY289688	KJ784607	OK636901	MH244014	MH244014	Arecaceae	Arecales
Phoenix_dactylifera	MH057635	JX495742	JN854235		MK692105	Arecaceae	Arecales
Phoenix_humilis						Arecaceae	Arecales
Phoenix_loureiroi	MK753960	MK704671	MK756777	MK683066	MK683066	Arecaceae	Arecales
Phoenix_paludosa	MK753964	MK704675	MN117637	MH244020	MH244020	Arecaceae	Arecales
Phoenix_pusilla	MK753966	MK704677	MK757002	MK683067	MK683067	Arecaceae	Arecales
Phoenix_sylvestris	MK753976	MK704660	MK756761	MK692106	MK692106	Arecaceae	Arecales
Dracaena_elliptica	MG648363	MT157551	MW027246			Asparagaceae	Asparagales
Dracaena_spicata	MW339358	MW927211				Asparagaceae	Asparagales
Iris_domestica						Iridaceae	Asparagales
Calanthe_davidii	MN204696	MN273556	KF852641	OP714377	OP714377	Orchidaceae	Asparagales
Vanda_coerulescens	KR363063	KX298627	KX298650	EU558931	EU558931	Orchidaceae	Asparagales
Tricholepis_amplexicaulis						Asteraceae	Asterales

Acilepis_setigera						Compositae	Asterales
Catamixis_baccharoides		FJ179462				Compositae	Asterales
Chrysanthellum_americanum						Compositae	Asterales
Monosis_travancorica						Compositae	Asterales
Monosis_volkameriifolia				HQ158408	HQ158408	Compositae	Asterales
Pluchea_indica	MF065475	ON685206	OK636937	OK637925	OK637925	Compositae	Asterales
Pluchea_lanceolata	KY497911	MG266207	MG266208	MG273761	MG273761	Compositae	Asterales
Strobocalyx_arborea	MG707329	MG712610	LC737379	MG779797	MG779797	Compositae	Asterales
Xanthium_strumarium	MF694808	MF694892	KY215771	ON506002	ON506002	Compositae	Asterales
Scaevola_taccada	GU135201	GU135039	OK636983	MH768165	MH768165	Goodeniaceae	Asterales
Illicium_griffithii						Schisandraceae	Austrobaileyales
Cordia_dichotoma	MW711863	MH997997	JF427954	JF332093	JF332093	Boraginaceae	Boraginales
Cordia_fragrantissima						Boraginaceae	Boraginales
Cordia_grandis						Boraginaceae	Boraginales
Cordia_macleodii	KY497955	KY523899		KY464044	KY464044	Boraginaceae	Boraginales
Cordia_monoica	ON950785	ON981997	JF427956	JF332095	JF332095	Boraginaceae	Boraginales
Cordia_myxa	KY523901	KY523900	JF427955	JF332094	JF332094	Boraginaceae	Boraginales
Cordia_oblongifolia						Boraginaceae	Boraginales
Cordia_quercifolia						Boraginaceae	Boraginales
Cordia_sinensis	ON960094	JF270723	JQ279746	AY321613		Boraginaceae	Boraginales
Cordia_subcordata	MW711872	MH767772		ON908417	ON908417	Boraginaceae	Boraginales
Ehretia_acuminata	HQ427271	KM894971	KP095983	KP093243	KP093243	Boraginaceae	Boraginales
Ehretia_aspera	MW711869	MG737418	JX856878	JX856447	JX856447	Boraginaceae	Boraginales
Ehretia_microphylla	MW711868			AY463160	MG730475	Boraginaceae	Boraginales
Ehretia_ovalifolia				AF091156	AF091156	Boraginaceae	Boraginales

Ehretia_wightiana						Boraginaceae	Boraginales
Heliotropium_arboreum	MH767468	MH767776	HQ286207	MH768076	MH768076	Boraginaceae	Boraginales
Varronia_curassavica	KJ082238	KJ012548	JF427975	JF332114	JF332114	Boraginaceae	Boraginales
Capparis_brevispina						Capparaceae	Brassicales
Capparis_decidua	MZ274960	OK172376		MN396792	MN396792	Capparaceae	Brassicales
Capparis_divaricata	KY558532	MN442059				Capparaceae	Brassicales
Capparis_grandis	KY558520	MN442058		MN396790	MN396790	Capparaceae	Brassicales
Capparis_himalayensis		OK172372		MT881634	MT881634	Capparaceae	Brassicales
Capparis_micracantha	KY066466	LC438891	LC438893	LC438890	LC438890	Capparaceae	Brassicales
Capparis_multiflora						Capparaceae	Brassicales
Capparis_olacifolia						Capparaceae	Brassicales
Capparis_rheedei				MN396791	MN396791	Capparaceae	Brassicales
Crateva_adansonii	AY167986					Capparaceae	Brassicales
Crateva_magna						Capparaceae	Brassicales
Crateva_religiosa	MH332431	MH332566		LC090022	LC090022	Capparaceae	Brassicales
Maerua_apetala						Capparaceae	Brassicales
Carica_papaya	JX091914	KJ772628	KC867738	JX092051	JX092051	Caricaceae	Brassicales
Moringa_concanensis	MW28389 3			AF378586	AF378586	Moringaceae	Brassicales
Moringa_oleifera	JX091931	LC547438	MG280934	JX092069	JX092069	Moringaceae	Brassicales
Azima_tetracantha	U36782	JF270649				Salvadoraceae	Brassicales
Salvadora_oleoides	OP046316			KP795956	KP795956	Salvadoraceae	Brassicales
Salvadora_persica	MW55786 4	MN243220			MW56724 9	Salvadoraceae	Brassicales
Buxus_wallichiana	MN580042				MN537087	Buxaceae	Buxales
Sarcococca_coriacea	MN580064				MN537100	Buxaceae	Buxales
Sarcococca_saligna	MT946704	LN877483		AF245418	AF245418	Buxaceae	Buxales
Suaeda_monoica	OM863962	KF860864		LC027281	LC027281	Amaranthaceae	Caryophyllales

Ancistrocladus_heyneanus		AF204841		HM204874	HM204874	Ancistrocladacea e	Caryophyllales
Ceodes_umbellifera	OL537054	AY042632	OK419285	JX644436	JX644436	Nyctaginaceae	Caryophyllales
Pisonia_grandis	JX844258	JX844246		JX844234	JX844234	Nyctaginaceae	Caryophyllales
Aegialitis_rotundifolia	MG970446		MN117578	MH243960	MH243960	Plumbaginaceae	Caryophyllales
Myrtama_elegans						Tamaricaceae	Caryophyllales
Tamarix_aphylla	OM284017	MZ563129	MZ573502	MZ563191	MZ563191	Tamaricaceae	Caryophyllales
Tamarix_dioica	MF695013	MF694883			MG256332	Tamaricaceae	Caryophyllales
Tamarix_ericoides						Tamaricaceae	Caryophyllales
Tamarix_indica	KC505169	KC840663	KC840657	MH626303	MH626303	Tamaricaceae	Caryophyllales
Cassine_albens						Celastraceae	Celastrales
Cassine_balae						Celastraceae	Celastrales
Cassine_congylos						Celastraceae	Celastrales
Elaeodendron_glaucum	JQ301853	JQ301873	HQ161758	KF986239	KF986239	Celastraceae	Celastrales
Elaeodendron_paniculatum	KY228858					Celastraceae	Celastrales
Euonymus_angulatus						Celastraceae	Celastrales
Euonymus_attenuatus						Celastraceae	Celastrales
Euonymus_cochinchinensis		AB924722				Celastraceae	Celastrales
Euonymus_crenulatus						Celastraceae	Celastrales
Euonymus_dichotomus						Celastraceae	Celastrales
Euonymus_fimbriatus		HQ393822		HQ393710	HQ393710	Celastraceae	Celastrales
Euonymus_glaber			HQ393762	HQ393703	HQ393703	Celastraceae	Celastrales
Euonymus_hamiltonianus	MH657795	HQ393827	OK420417	HQ393724	HQ393724	Celastraceae	Celastrales
Euonymus_indicus						Celastraceae	Celastrales
Euonymus_tingens	MH116168	HQ393840	MH117083	HQ393716	HQ393716	Celastraceae	Celastrales
Glyptopetalum_zeylanicum						Celastraceae	Celastrales
Gymnosporia_emarginata				OP537840	OP537840	Celastraceae	Celastrales
Gymnosporia_heyneana						Celastraceae	Celastrales

Gymnosporia_rothiana						Celastraceae	Celastrales
Gymnosporia_rufa						Celastraceae	Celastrales
Gymnosporia_senegalensis	JX572661	JF270810		MF155183	MF155103	Celastraceae	Celastrales
Lophopetalum_wightianum	KJ594776	KJ708988		KF986241	KF986241	Celastraceae	Celastrales
Microtropis_latifolia						Celastraceae	Celastrales
Microtropis_ramiflora						Celastraceae	Celastrales
Microtropis_stocksii						Celastraceae	Celastrales
Pleurostylia_opposita	KM895492	KM894417	KM895004	KF986244	KF986244	Celastraceae	Celastrales
Salacia_chinensis	KJ365502	KJ365515	MN385608	HM230110	HM230110	Celastraceae	Celastrales
Salacia_fruticosa	KJ365499	KJ365512	KJ365486	MN382365	MN382365	Celastraceae	Celastrales
Salacia_macrosperma	KJ365505	KJ365510	KJ365484	MN382364	MN382364	Celastraceae	Celastrales
Alangium_chinense	MN722334	MN722212	KP095180	MH566960	MH566960	Cornaceae	Cornales
Alangium_hexapetalum						Cornaceae	Cornales
Alangium_salviifolium	MG707301	ON981812	MW04793 3	FJ610004	FJ610004	Cornaceae	Cornales
Cornus_capitata	MH657941	MH659432	JF321209	MH710997	MH710997	Cornaceae	Cornales
Cornus_macrophylla	LC693243	LC678739	OK420676	DQ340504	DQ340504	Cornaceae	Cornales
Cornus_oblonga	L11218	DQ341332	JF321217	AY530917	AY530917	Cornaceae	Cornales
Mastixia_arborea						Cornaceae	Cornales
Mastixia_congylos						Cornaceae	Cornales
Mastixia_nimalii						Cornaceae	Cornales
Mastixia_tetrandra						Cornaceae	Cornales
Nyssa_javanica	JQ280843	JQ280875	EU734468	JQ280779	JQ280779	Cornaceae	Cornales
Hydrangea_aspera	MH657882	MH659388	HM216967	MH710968	MH710968	Hydrangeaceae	Cornales
Hydrangea_heteromalla	JF941963	JF954072	HM216975	LN830352	LN830352	Hydrangeaceae	Cornales
Hydrangea_robusta	MN192608	MN273677	MF785793	MH808359	MH808359	Hydrangeaceae	Cornales
Dalrympelea_pomifera						Staphyleaceae	Crossosomatale s

Staphylea_cochinchinensis	KR530175	KR531608	KR533655	KR532690	KR532690	Staphyleaceae	Crossosomatales
Turpinia_malabarica						Staphyleaceae	Crossosomatales
Anisophyllea_cinnamomoides	AY973478	AY973457		AY973443	AY973443	Anisophylleaceae	Cucurbitales
Begonia_picta				HQ729042	HQ729042	Begoniaceae	Cucurbitales
Tetrameles_nudiflora	AF206828	AY968458	KR532878	KR532666	KR532666	Tetramelaceae	Cucurbitales
Alsophila_gigantea	KP338017					Cyatheaceae	Cyatheales
Alsophila_nilgirensis						Cyatheaceae	Cyatheales
Alsophila_spinulosa	KP337993		KJ686768			Cyatheaceae	Cyatheales
Sphaeropteris_albosetacea						Cyatheaceae	Cyatheales
Sphaeropteris_brunoniana	KY858750					Cyatheaceae	Cyatheales
Cycas_circinalis	AF531198	AF410164	KX182242			Cycadaceae	Cycadales
Cycas_pectinata	MH069578	AB116590	GQ435371			Cycadaceae	Cycadales
Cycas_sphaerica	KF432022		KX182312			Cycadaceae	Cycadales
Dillenia_andamanica						Dilleniaceae	Dilleniales
Dillenia_aurea	AB925457	AB924843	KT452060			Dilleniaceae	Dilleniales
Dillenia_indica	MT933799	MW044083	MW047978	KT869204	KT869204	Dilleniaceae	Dilleniales
Dillenia_pentagyna	KX344680		KT452071	KX277702	KX277702	Dilleniaceae	Dilleniales
Dillenia_retusa	MH544228	MK331995		KT869206	KT869206	Dilleniaceae	Dilleniales
Dillenia_triquetra	KT869331	KT869260	KT869310	KT869207	KT869207	Dilleniaceae	Dilleniales
Schumacheria_castaneifolia	KT869342		KT869320	KT869218	KT869218	Dilleniaceae	Dilleniales
Viburnum_cotinifolium	GQ248707	GQ248211	GQ248401	KF019809	KF019809	Adoxaceae	Dipsacales
Viburnum_cylindricum	MT934111	MW044052	MW047924	MH808382	MH808382	Adoxaceae	Dipsacales
Viburnum_erubescens	MN185135	MN273684	AY627397	MH808384	MH808384	Adoxaceae	Dipsacales
Viburnum_grandiflorum	KF019797	KF019755	KF019852	KF019814	KF019814	Adoxaceae	Dipsacales
Viburnum_mullaha	KF019804	KF019762		KF019819	KF019819	Adoxaceae	Dipsacales

Viburnum_nervosum	MN937429	MN914773	MN987836	MN987653	MN987653	Adoxaceae	Dipsacales
Saurauia_armata						Actinidiaceae	Ericales
Saurauia_bracteosa						Actinidiaceae	Ericales
Saurauia_griffithii						Actinidiaceae	Ericales
Saurauia_macrotricha				KR819544	KR819544	Actinidiaceae	Ericales
Saurauia_napaulensis	MT934081	MW04424 9		KR819548	KR819548	Actinidiaceae	Ericales
Saurauia_punduana						Actinidiaceae	Ericales
Saurauia_roxburghii	KR819608	KR819709		KR819555	KR819555	Actinidiaceae	Ericales
Diospyros_acuminata						Ebenaceae	Ericales
Diospyros_acuta						Ebenaceae	Ericales
Diospyros_affinis						Ebenaceae	Ericales
Diospyros_albiflora						Ebenaceae	Ericales
Diospyros_andamanica	EU980645					Ebenaceae	Ericales
Diospyros_atrata		DQ924034				Ebenaceae	Ericales
Diospyros_attenuata						Ebenaceae	Ericales
Diospyros_barberi						Ebenaceae	Ericales
Diospyros_bourdillonii						Ebenaceae	Ericales
Diospyros_buxifolia	KJ594673	KJ708884		MK131240	MK131240	Ebenaceae	Ericales
Diospyros_candolleana						Ebenaceae	Ericales
Diospyros_cauliflora	EU980661					Ebenaceae	Ericales
Diospyros_chaetocarpa						Ebenaceae	Ericales
Diospyros_chloroxylon						Ebenaceae	Ericales
Diospyros_crumenata						Ebenaceae	Ericales
Diospyros_ebenum	KU379542	KU379137	FJ238239	KU378840	KU378840	Ebenaceae	Ericales
Diospyros_ferrea	MT933803	MW04423 1	MW04798 2	DQ499075	DQ499075	Ebenaceae	Ericales
Diospyros_foliolosa						Ebenaceae	Ericales
Diospyros_ghatensis						Ebenaceae	Ericales

Diospyros_glandulosa	EU980693	AB174987				Ebenaceae	Ericales
Diospyros_hirsuta						Ebenaceae	Ericales
Diospyros_insignis						Ebenaceae	Ericales
Diospyros_kaki	GU471712	GU471729	AB115399	KF206043	KF206043	Ebenaceae	Ericales
Diospyros_koenigii						Ebenaceae	Ericales
Diospyros_kurzii	MN850786	MN850789				Ebenaceae	Ericales
Diospyros_lanceifolia	MG707315	MG712596				Ebenaceae	Ericales
Diospyros_malabarica	EU980707	FJ238151	JX856876	MT035901	MT035901	Ebenaceae	Ericales
Diospyros_marmorata						Ebenaceae	Ericales
Diospyros_melanoxylon	KX344717	KX344578		MT081534	MT081534	Ebenaceae	Ericales
Diospyros_montana	KU379361	MG737417				Ebenaceae	Ericales
Diospyros_moonii						Ebenaceae	Ericales
Diospyros_multibracteata						Ebenaceae	Ericales
Diospyros_neilgerrensis						Ebenaceae	Ericales
Diospyros_nilagirica						Ebenaceae	Ericales
Diospyros_nummulariifolia						Ebenaceae	Ericales
Diospyros_okkesii						Ebenaceae	Ericales
Diospyros_oocarpa						Ebenaceae	Ericales
Diospyros_opaca						Ebenaceae	Ericales
Diospyros_oppositifolia						Ebenaceae	Ericales
Diospyros_ovalifolia						Ebenaceae	Ericales
Diospyros_paniculata						Ebenaceae	Ericales
Diospyros_pegophila						Ebenaceae	Ericales
Diospyros_pemadasae						Ebenaceae	Ericales
Diospyros_pilosiuscula	EU980731	DQ924048				Ebenaceae	Ericales
Diospyros_pruriens						Ebenaceae	Ericales
Diospyros_pyrrhocarpa						Ebenaceae	Ericales
Diospyros_quaesita						Ebenaceae	Ericales

Diospyros_rheophytica						Ebenaceae	Ericales
Diospyros_ridleyi	EU980742	DQ924053				Ebenaceae	Ericales
Diospyros_saldanhae						Ebenaceae	Ericales
Diospyros_srilankana						Ebenaceae	Ericales
Diospyros_sylvatica						Ebenaceae	Ericales
Diospyros_thwaitesii						Ebenaceae	Ericales
Diospyros_toposia	EU980759	EU980979				Ebenaceae	Ericales
Diospyros_trichophylla						Ebenaceae	Ericales
Diospyros_undulata	AB925494	AB924700				Ebenaceae	Ericales
Diospyros_variegata						Ebenaceae	Ericales
Diospyros_walkeri						Ebenaceae	Ericales
Enkianthus_deflexus	JF941460	OP024506				Ericaceae	Ericales
Gaultheria_fragrantissima	JF941613	FJ010623	JN044596	FJ010605	FJ010605	Ericaceae	Ericales
Lyonia_ovalifolia	LC702368	LC702385	KP095208	KM209397	KM209397	Ericaceae	Ericales
Lyonia_villosa						Ericaceae	Ericales
Pieris_formosa	MH658778	MH660242	MF785820	MH711687	MH711687	Ericaceae	Ericales
Rhododendron_barbatum	KM606524	KM606243	KM605658	KM605947	KM605947	Ericaceae	Ericales
Rhododendron_campanulatum	KM606540	KM606251	KM605674	MH532948	MH532948	Ericaceae	Ericales
Rhododendron_campylocarpum	JF943859	JF955927	MH543342	MT779054	MT779054	Ericaceae	Ericales
Rhododendron_cinnabarinum	KM606349	KM606082	JN046781	MT779098	MT779098	Ericaceae	Ericales
Rhododendron_falconeri		U61343		MT779056	MT779056	Ericaceae	Ericales
Rhododendron_fulgens	KM606546	KM606265	KM605680	KM605969	KM605969	Ericaceae	Ericales
Rhododendron_grande	GU176646	DQ002360	AY842214	GU176633	GU176633	Ericaceae	Ericales
Rhododendron_griffithianum						Ericaceae	Ericales
Rhododendron_hodgsonii	KM606537	KM606256	MH543345	MH532952	MH532952	Ericaceae	Ericales
Rhododendron_keysii	KM606420	KM606139	KM605554	MT779099	MT779099	Ericaceae	Ericales
Rhododendron_thomsonii		MT779615	MH543344	MT779079	MT779079	Ericaceae	Ericales
Rhododendron_wightii	KM606541	KM606260	KM605675	MH532946	MH532946	Ericaceae	Ericales

Vaccinium_sprengelii						Ericaceae	Ericales
Vaccinium_symplocifolium						Ericaceae	Ericales
Barringtonia_acutangula	AB925810	KM658965	JX391977	MN699331	MN699331	Lecythidaceae	Ericales
Barringtonia_asiatica	EU980812	KP996866		MZ497175	MZ497175	Lecythidaceae	Ericales
Barringtonia_pendula	KR528820		KR534032		KR531819	Lecythidaceae	Ericales
Barringtonia_racemosa	OK052746	JX517528	OK052814	MN699337	MN699337	Lecythidaceae	Ericales
Barringtonia_waasii						Lecythidaceae	Ericales
Careya_arborea	AF077655	AB925162		MN699345	MN699344	Lecythidaceae	Ericales
Chydenanthus_excelsus						Lecythidaceae	Ericales
Couroupita_guianensis	AF022134				JN222144	Lecythidaceae	Ericales
Planchonia_valida	Z80176					Lecythidaceae	Ericales
Adinandra_lasiopetala						Pentaphylacacea e	Ericales
Cleyera_japonica	OL537593	OL537845	OK420621	HM061546	HM061546	Pentaphylacacea e	Ericales
Eurya_acuminata			AY943245	AY626852	AY626852	Pentaphylacacea e	Ericales
Eurya_cavinervis						Pentaphylacacea e	Ericales
Eurya_cerasifolia						Pentaphylacacea e	Ericales
Eurya_japonica	MN583097	MN583060	OK420745	AY626867	AY626867	Pentaphylacacea e	Ericales
Eurya_nitida	MN583098	MN583061	AY943258	AY626874	AY626874	Pentaphylacacea e	Ericales
Eurya_trichocarpa						Pentaphylacacea e	Ericales
Ternstroemia_emarginata						Pentaphylacacea e	Ericales
Ternstroemia_gymnanthera	AF380064	LC679932	KP095232	AY626888	AY626888	Pentaphylacacea e	Ericales
Aegiceras_corniculatum	KM255066	KM255081	OK636537	KC460264	KC460264	Primulaceae	Ericales

Ardisia_complanata	LC736090	LC736821	LC737413			Primulaceae	Ericales
Ardisia_crispa	LC689369	LC677448	OK418007	MW41476 4	MW41476 4	Primulaceae	Ericales
Ardisia_oxyphylla						Primulaceae	Ericales
Ardisia_pauciflora						Primulaceae	Ericales
Ardisia_polysticta						Primulaceae	Ericales
Ardisia_solanacea						Primulaceae	Ericales
Ardisia_thyrsiflora						Primulaceae	Ericales
Ardisia_willisii						Primulaceae	Ericales
Embelia_viridiflora						Primulaceae	Ericales
Maesa_andamanica						Primulaceae	Ericales
Maesa_argentea						Primulaceae	Ericales
Maesa_chisia						Primulaceae	Ericales
Maesa_indica	KR529646	KP093445	KR533742	JQ436585	JQ436585	Primulaceae	Ericales
Maesa_macrophylla						Primulaceae	Ericales
Maesa_maxima						Primulaceae	Ericales
Maesa_montana	LC693596	LC679893	OK420555	KU569493	KU569493	Primulaceae	Ericales
Maesa_ramentacea		MG784948				Primulaceae	Ericales
Maesa_rugosa						Primulaceae	Ericales
Myrsine_africana	OL537004	OL690074	OL312117	MT231612	MT231612	Primulaceae	Ericales
Myrsine_ceylanica						Primulaceae	Ericales
Myrsine_robusta						Primulaceae	Ericales
Myrsine_semiserrata	MN204880	MN311767	MF926114	MT231638	MT231638	Primulaceae	Ericales
Myrsine_wightiana		KY982621		KY982611	KY982611	Primulaceae	Ericales
Diploknema_butyracea			AM179716	KF686193	KF686193	Sapotaceae	Ericales
Donella_lanceolata		HQ415295	MZ707941			Sapotaceae	Ericales
Isonandra_alloneura	JX856716			KF686200	KF686200	Sapotaceae	Ericales
Isonandra_compta				KF686198	KF686198	Sapotaceae	Ericales

Isonandra_lanceolata				KF686199	KF686199	Sapotaceae	Ericales
Isonandra_montana						Sapotaceae	Ericales
Isonandra_perrottetiana						Sapotaceae	Ericales
Isonandra_stocksii						Sapotaceae	Ericales
Isonandra_zeylanica						Sapotaceae	Ericales
Madhuca_clavata						Sapotaceae	Ericales
Madhuca_fulva				KF686214	KF686214	Sapotaceae	Ericales
Madhuca_longifolia	JQ673542	JQ673568	AM179726	KF686224	KF686224	Sapotaceae	Ericales
Madhuca_microphylla	AF421096		AM179727	KF686226	KF686226	Sapotaceae	Ericales
Madhuca_moonii						Sapotaceae	Ericales
Madhuca_neriifolia		MN841760		KX545255	KX545255	Sapotaceae	Ericales
Manilkara_hexandra	JX856723	JQ673569	AM179732	KF686239	KF686239	Sapotaceae	Ericales
Manilkara_littoralis	KF848238	KJ784606		KF848274	KM370935	Sapotaceae	Ericales
Mimusops_andamanensis						Sapotaceae	Ericales
Mimusops_elengi	JN114822	JN114760	MH069945	KF686246	KF686246	Sapotaceae	Ericales
Mimusops_hexandra						Sapotaceae	Ericales
Palaquium_bourdillonii						Sapotaceae	Ericales
Palaquium_canaliculatum						Sapotaceae	Ericales
Palaquium_ellipticum						Sapotaceae	Ericales
Palaquium_grande						Sapotaceae	Ericales
Palaquium_hinmolpedda						Sapotaceae	Ericales
Palaquium_laevifolium						Sapotaceae	Ericales
Palaquium_pauciflorum						Sapotaceae	Ericales
Palaquium_petiolare						Sapotaceae	Ericales
Palaquium_polyanthum						Sapotaceae	Ericales
Palaquium_ravii						Sapotaceae	Ericales
Palaquium_rubiginosum						Sapotaceae	Ericales
Palaquium_semaram						Sapotaceae	Ericales

Palaquium_thwaitesii						Sapotaceae	Ericales
Palaquium_zeylanicum						Sapotaceae	Ericales
Payena_lucida	LC736539	KJ709037	LC737418	KF686297	KF686297	Sapotaceae	Ericales
Planchonella_longipetiolata						Sapotaceae	Ericales
Planchonella_obovata	MF623337	LC680668	DQ344139	DQ154076	DQ154076	Sapotaceae	Ericales
Sarcosperma_arboreum						Sapotaceae	Ericales
Xantolis_hookeri						Sapotaceae	Ericales
Xantolis_tomentosa						Sapotaceae	Ericales
Bruinsmia_polysperma				MN852295	MN852295	Styracaceae	Ericales
Styrax_serrulatus				AF327481	AF327481	Styracaceae	Ericales
Symplocos_acuminata	AB925800	AB924762				Symplocaceae	Ericales
Symplocos_anamallayana						Symplocaceae	Ericales
Symplocos_bractealis						Symplocaceae	Ericales
Symplocos_cochinchinensis	KR530061	HQ415341	HQ415519	KR532601	KR532601	Symplocaceae	Ericales
Symplocos_cordifolia						Symplocaceae	Ericales
Symplocos_coronata						Symplocaceae	Ericales
Symplocos_cuneata						Symplocaceae	Ericales
Symplocos_diversifolia						Symplocaceae	Ericales
Symplocos_dryophila		AY630672		AY336300	AY336300	Symplocaceae	Ericales
Symplocos_elegans						Symplocaceae	Ericales
Symplocos_foliosa						Symplocaceae	Ericales
Symplocos_glauca	KJ688597	LC680360	OK419200	AY336327	AY336327	Symplocaceae	Ericales
Symplocos_glomerata		AY336373		AY336324	AY336324	Symplocaceae	Ericales
Symplocos_kurgensis						Symplocaceae	Ericales
Symplocos_macrocarpa						Symplocaceae	Ericales
Symplocos_macrophylla	HQ415168	AY630674	HQ415517	AY336309	AY336309	Symplocaceae	Ericales
Symplocos_monantha						Symplocaceae	Ericales
Symplocos_obtusa						Symplocaceae	Ericales

Symplocos_oligandra						Symplocaceae	Ericales
Symplocos_oxyphylla						Symplocaceae	Ericales
Symplocos_paniculata	LC694852	LC680777	AB115370	MH808423	MH808423	Symplocaceae	Ericales
Symplocos_pendula				AY679788	AY679788	Symplocaceae	Ericales
Symplocos_pulchra						Symplocaceae	Ericales
Symplocos_pyrifolia		KF002904		AY336313	AY336313	Symplocaceae	Ericales
Symplocos_ramosissima		KF002913		KF002873	KF002873	Symplocaceae	Ericales
Symplocos_sumuntia	MH658095	MH659579	HQ427075	MH711127	MH711127	Symplocaceae	Ericales
Symplocos_wynadense						Symplocaceae	Ericales
Camellia_caudata				EU579684	EU579684	Theaceae	Ericales
Camellia_kissii	KY807944	KX216434	KX121715	EU579726	EU579726	Theaceae	Ericales
Camellia_sinensis	KR296794	MN583055	MN231859	EU579774	EU579774	Theaceae	Ericales
Polyspora_ceylanica						Theaceae	Ericales
Polyspora_dassanayakei						Theaceae	Ericales
Polyspora_dipterosperma						Theaceae	Ericales
Polyspora_elliptica						Theaceae	Ericales
Polyspora_gardneri						Theaceae	Ericales
Polyspora_obtusa						Theaceae	Ericales
Schima_khasiana			HM100538	OL469060	OL469060	Theaceae	Ericales
Schima_wallichii	MH113385	MW04427 6	MW04790 5	HM100444	HM100444	Theaceae	Ericales
Acacia_auriculiformis	GU135162	GU134998	KC955938	KC955519	KC955519	Fabaceae	Fabales
Acacia_dealbata	MH560448	KF531966	KC284198	KC955771	KC955771	Fabaceae	Fabales
Acacia_decurrens			KC956278	KC955556	KC955556	Fabaceae	Fabales
Acacia_mangium	KJ440053	MW18310 9	KM191760	KC955552	KC955552	Fabaceae	Fabales
Acacia_melanoxylon	KM896131	FJ711538	KC955984	KC955592	KC955592	Fabaceae	Fabales
Acrocarpus_fraxinifolius	KR528593	KR530247	KR532956			Fabaceae	Fabales
Adenanthera_aglaosperma						Fabaceae	Fabales

Adenanthera_microsperma	MW960563	MW961234	MW047930			Fabaceae	Fabales
Adenanthera_pavonina	GU135287	GU135053	KP095324			Fabaceae	Fabales
Aeschynomene_elaphroxylon				KT821157	KT821157	Fabaceae	Fabales
Albizia_amara	JX856628	JX517531	JQ230170	MN264648	MN264648	Fabaceae	Fabales
Albizia_chinensis	MH113390	KR530303	KP095326	LC537162	LC537162	Fabaceae	Fabales
Albizia_julibrissin	GU135262	GU135096	GU135433	MT227736	MT227736	Fabaceae	Fabales
Albizia_lankaensis						Fabaceae	Fabales
Albizia_lathamii						Fabaceae	Fabales
Albizia_lebbeck	JX571776	GU134994	GU135326	OM286908	OM286908	Fabaceae	Fabales
Albizia_lucidior	MT933747	KR530309	MW047935	JX856396	JX856396	Fabaceae	Fabales
Albizia_odoratissima	KR528667	KR530313	KR532934	KR531710	KR531710	Fabaceae	Fabales
Albizia_procera	KJ082111	KC689800	KR532920	DQ499103	DQ499103	Fabaceae	Fabales
Albizia_thompsonii						Fabaceae	Fabales
Albizia_umbrosa						Fabaceae	Fabales
Archidendron_bigeminum				OM286913	OM286913	Fabaceae	Fabales
Archidendron_clypearia	GQ436357	KR530393	KR532958	KT321362	KT321362	Fabaceae	Fabales
Archidendron_ellipticum				EF638174	EF638174	Fabaceae	Fabales
Bauhinia_acuminata	MF627693		JX856830	ON630315	ON630315	Fabaceae	Fabales
Bauhinia_purpurea	AF387980	KX538425	MH837770	MH548399	MH813045	Fabaceae	Fabales
Bauhinia_racemosa		JN881392		OP467012	OP467012	Fabaceae	Fabales
Bauhinia_tomentosa	JX572328	JX517621		KX057838	KX057838	Fabaceae	Fabales
Bauhinia_variegata	KX010594	GU135033	MH621798	MZ314018	MG731085	Fabaceae	Fabales
Biancaea_sappan	LC456380	LC456379	LC456381	OQ355458	OQ355458	Fabaceae	Fabales
Butea_monosperma	MK238858	JN008175	KJ436379	OP467013	MK651824	Fabaceae	Fabales
Butea_superba	LC570934	LC570919	LC570936			Fabaceae	Fabales
Cassia_fistula	U74195	AM086830	GQ435368	OM826996	OM471868	Fabaceae	Fabales

Cassia_roxburghii	MH550172	JQ301881	HQ161766	MW326753	MW326753	Fabaceae	Fabales
Cathormion_umbellatum		AF274122	AF524968	EF638182	EF638182	Fabaceae	Fabales
Clitoria_annua						Fabaceae	Fabales
Crudia_zeylanica	OK139140		OK148978			Fabaceae	Fabales
Cynometra_beddomei						Fabaceae	Fabales
Cynometra_iripa	OK139141			MG949325	MG949325	Fabaceae	Fabales
Cynometra_polyandra						Fabaceae	Fabales
Cynometra_ramiflora		MH332549				Fabaceae	Fabales
Cynometra_zeylanica						Fabaceae	Fabales
Dalbergia_assamica	MT933949	KM521273	MW047970	KM521356	KM521356	Fabaceae	Fabales
Dalbergia_candenatensis	KM510242	OM648056	KM276241	AB828621	AB828621	Fabaceae	Fabales
Dalbergia_coromandeliana						Fabaceae	Fabales
Dalbergia_lanceolaria	MH113403	KM282579	KM276257	JX856440	JX856440	Fabaceae	Fabales
Dalbergia_latifolia	KM510270	KM276432	JX856873	OM677801	OM677801	Fabaceae	Fabales
Dalbergia_oliveri	KM510282	KP719019	FR854156	KM521397	KM521397	Fabaceae	Fabales
Dalbergia_sissoo	LC735997	LC603655	KM276363	KM276204	KM276204	Fabaceae	Fabales
Delonix_elata	AM234235	KY010681		KY321105	KY321105	Fabaceae	Fabales
Delonix_regia	AY904419	MW183110	OL312483	KX057862	KX057862	Fabaceae	Fabales
Dendrolobium_umbellatum	OL537612	KX213159				Fabaceae	Fabales
Dialium_ovoideum						Fabaceae	Fabales
Dichrostachys_cinerea	MN591166	JQ024956	AF524961	AF458820	AF458820	Fabaceae	Fabales
Entada_zeylanica		EU328450				Fabaceae	Fabales
Erythrina_arborescens	MH113361				MN908581	Fabaceae	Fabales
Erythrina_crista-galli	MK238893	AY386869		FN825780	FN825780	Fabaceae	Fabales
Erythrina_fusca	MK238945	MK263623	MK207069	MK207356	MK207356	Fabaceae	Fabales
Erythrina_stricta	MK238821	MK263499				Fabaceae	Fabales

Erythrina_suberosa	MK238873	MK263551	MK207188			Fabaceae	Fabales
Erythrina_subumbrans	MK238876	MK263554	MK207082		MN422116	Fabaceae	Fabales
Erythrina_variegata	MK238852	MK263530	MK207117		MN417325	Fabaceae	Fabales
Falcataria_falcata	KX527371	KX458480	KJ621186	OM286983	OM286983	Fabaceae	Fabales
Gleditsia_assamica						Fabaceae	Fabales
Gliricidia_sepium	MN555797	MK643038	MK643041	KX057873	KX057873	Fabaceae	Fabales
Gymnocladus_assamicus						Fabaceae	Fabales
Hardwickia_binata			MN992936	AY955789	AY955789	Fabaceae	Fabales
Humboldtia_brunonis	JX163310	EU361970		KY306582	KY306582	Fabaceae	Fabales
Humboldtia_laurifolia						Fabaceae	Fabales
Indigofera_atropurpurea						Fabaceae	Fabales
Indigofera_heterantha	MF694730	MF694858		AF521769	AF521769	Fabaceae	Fabales
Intsia_bijuga	KF496786	EU361981	KX657827	MH487698	MH487698	Fabaceae	Fabales
Leucaena_latisiliqua	MH549908	MW13904 0	MH621975			Fabaceae	Fabales
Leucaena_leucocephala	GU135204	KX518643	AF524962	MH768248	MH768248	Fabaceae	Fabales
Millettia_peguensis	JX856727	KY241806		JX856476	JX856476	Fabaceae	Fabales
Mundulea_sericea	KM510297	KM521336		KM521406	KM521406	Fabaceae	Fabales
Neltuma_chilensis						Fabaceae	Fabales
Neltuma_juliflora	KY988327	JX495749	HG963698			Fabaceae	Fabales
Ormocarpum_sennoides	ON950935	ON981824		AF068153	AF068153	Fabaceae	Fabales
Ormosia_travancorica						Fabaceae	Fabales
Ougeinia_oojeinensis						Fabaceae	Fabales
Parkia_timoriana	KX905138	MW13886 9	KX388301	OQ581823	OQ581823	Fabaceae	Fabales
Parkinsonia_aculeata	LC739742	OL537931	OK469598	KF379226	KF379226	Fabaceae	Fabales
Peltophorum_pterocarpum	KY988304	KJ012706		KM229630	KM229630	Fabaceae	Fabales
Pericopsis_mooniana	U74210			MT093373	MT093373	Fabaceae	Fabales
Phanera_roxburghiana				AY258392	AY258392	Fabaceae	Fabales

Piliostigma_foveolatum						Fabaceae	Fabales
Piliostigma_malabaricum			JX856834			Fabaceae	Fabales
Pithecellobium_dulce	ON950937	MG572014	KY398114	OP467017	OP467017	Fabaceae	Fabales
Pongamia_pinnata	LC693278	LC679647	OK420510	MK880335	MK880335	Fabaceae	Fabales
Prioria_pinnata						Fabaceae	Fabales
Prosopis_cineraria	MF694762			DQ323143	DQ323143	Fabaceae	Fabales
Pterocarpus_dalbergioides	MZ568914	MZ568884			MZ557868	Fabaceae	Fabales
Pterocarpus_indicus	KY829241	KJ012739	MW04805 4	MW82612 4	MW82612 4	Fabaceae	Fabales
Pterocarpus_macrocarpus	MT933880	MW04418 7	MW04805 5	MH487681	MH487681	Fabaceae	Fabales
Pterocarpus_marsupium	MH272527	JN083553	MH321507	MH245224	MH245224	Fabaceae	Fabales
Robinia_pseudoacacia	KJ204397	KX677323	GU396720	KU193707	KU193707	Fabaceae	Fabales
Samanea_saman	KF724322	MW18310 2	KF921862	JX870770	JX870770	Fabaceae	Fabales
Saraca_asoca	KY678341	KU994830	KY673545	MW30161 0	MW30161 0	Fabaceae	Fabales
Saraca_indica	MW51015 9	MT526218		MG949350	MG949350	Fabaceae	Fabales
Senegalia_caesia	KF532025	KF531948	KF531997	KF532073	KF532073	Fabaceae	Fabales
Senegalia_catechu	KF532043	KF531964	GQ434968	KC952019	KC952019	Fabaceae	Fabales
Senegalia_chundra						Fabaceae	Fabales
Senegalia_donaldi						Fabaceae	Fabales
Senegalia_ferruginea	JX195517	KX518640	JX195529	JX139099	JX139099	Fabaceae	Fabales
Senegalia_intsia						Fabaceae	Fabales
Senegalia_lankaensis						Fabaceae	Fabales
Senegalia_mellifera	JX572211	JX850069	KR735840	KY688804	KY688804	Fabaceae	Fabales
Senegalia_modesta	JX856624	KC689798	KY688518	MG270130	MG270130	Fabaceae	Fabales
Senegalia_pennata	KF532021	KF531945	KF531996	KF532072	KF532072	Fabaceae	Fabales
Senegalia_polyacantha			GQ872329			Fabaceae	Fabales

Senegalia_rugata	LC604702		LC604710	KF532080	KF532080	Fabaceae	Fabales
Senegalia_senegal	JF265258	FJ711542	AF524996	HQ605042	HQ605042	Fabaceae	Fabales
Senna_alata	JQ301848	JQ301868	KR134005	OQ355473	OQ355473	Fabaceae	Fabales
Senna_auriculata	OP555107	MK309363	KY576687	KT308096	KT308096	Fabaceae	Fabales
Senna_montana	JQ301854	MF491451	HQ161759		JQ301834	Fabaceae	Fabales
Senna_siamea	ON756129	OM471866	MW04806 8	OP467022	OP467022	Fabaceae	Fabales
Senna_sophera	KM895619	JQ301875	KM895080	HQ833042	HQ833042	Fabaceae	Fabales
Senna_spectabilis	JQ301856	JQ301876	KJ426932	KX372781	KX372781	Fabaceae	Fabales
Senna_sulfurea	LC738805	LC605995	HQ161758		JQ301833	Fabaceae	Fabales
Senna_timoriensis	JF975376	HM236876	JF838366			Fabaceae	Fabales
Sesbania_grandiflora		AY821678		AF536354	AF536354	Fabaceae	Fabales
Stylosanthes_fruticosa	KR737173	ON982132	KR735766	AJ320356	AJ320356	Fabaceae	Fabales
Tamarindus_indica	OP564957	JQ587877	KJ426962	OP467024	OP467024	Fabaceae	Fabales
Thailentadopsis_nitida		KX581237	KF921864	JX870772	JX870772	Fabaceae	Fabales
Vachellia_bolei						Fabaceae	Fabales
Vachellia_eburnea	MG299158					Fabaceae	Fabales
Vachellia_farnesiana	FJ716674	JQ587895	KF531999	MZ475327	MZ475327	Fabaceae	Fabales
Vachellia_jacquemontii	MF694937	MF694816		MG270128	MG270128	Fabaceae	Fabales
Vachellia_leucophloea	JX195515		JX195530	JX139100	JX139100	Fabaceae	Fabales
Vachellia_nilotica	MF694651	FJ711544	FJ808540			Fabaceae	Fabales
Vachellia_planifrons	JX195513					Fabaceae	Fabales
Vachellia_tomentosa						Fabaceae	Fabales
Vachellia_tortilis	EU213443	MN579911	EU213788	KC733803	KC733803	Fabaceae	Fabales
Xylia_xylocarpa	AB925419	AB924808				Fabaceae	Fabales
Xanthophyllum_andamanicum						Polygalaceae	Fabales
Xanthophyllum_flavescens	KR530226	MG784956	KR532965	KR532727	KR532727	Polygalaceae	Fabales
Alnus_nepalensis	MT933920	FJ011820	JN043807	AJ251676	AJ251676	Betulaceae	Fagales

Alnus_nitida		KF419029	FJ844510	AJ251677	AJ251677	Betulaceae	Fagales
Betula_alnoides	MT933921	MW043970	FJ011873	AJ783641	AJ783641	Betulaceae	Fagales
Betula_cylindrostachya				KT308941	KT308941	Betulaceae	Fagales
Betula_utilis	MN192650	MN433380	FJ011884	MH808501	MH808501	Betulaceae	Fagales
Carpinus_faginea						Betulaceae	Fagales
Carpinus_viminea	MH657945	MH659436	AY211447	MW928921	MW928921	Betulaceae	Fagales
Casuarina_equisetifolia	GU135200	GU135038	GU135367	AY864057	AY864057	Casuarinaceae	Fagales
Castanopsis_acuminatissima	OM021693	OM021780				Fagaceae	Fagales
Castanopsis_armata						Fagaceae	Fagales
Castanopsis_echinocarpa	OK562514	KJ510908		AY040375	AY040375	Fagaceae	Fagales
Castanopsis_ferox	OK562574	MW043929	MW047765			Fagaceae	Fagales
Castanopsis_indica	OK562529	KR530545	KR532847	AY040377	AY040377	Fagaceae	Fagales
Castanopsis_lanceifolia	MH113391					Fagaceae	Fagales
Castanopsis_purpurella	JF941184	JF953472	KP095401			Fagaceae	Fagales
Castanopsis_tribuloides						Fagaceae	Fagales
Lithocarpus_acuminatus						Fagaceae	Fagales
Lithocarpus_dealbatus		EF057115		AY040430	AY040430	Fagaceae	Fagales
Lithocarpus_elegans						Fagaceae	Fagales
Lithocarpus_fenestratus	OK562467	MW044285	MW047808	AY040449	AY040449	Fagaceae	Fagales
Lithocarpus_milroyi						Fagaceae	Fagales
Lithocarpus_pachyphyllus	MT933992	MW043947	MW047817	AY040447	AY040447	Fagaceae	Fagales
Lithocarpus_polystachyus						Fagaceae	Fagales
Lithocarpus_xylocarpus	MT933998	MW044277	MW047820	AY040432	AY040432	Fagaceae	Fagales
Quercus_acutissima	LC694330	MH058615	KT152193	AH005160	AH005160	Fagaceae	Fagales

Quercus_baloot	LM652980	MH058634	MH058981			Fagaceae	Fagales
Quercus_floribunda	LC588401	JX860842	MH059016			Fagaceae	Fagales
Quercus_glauca	OL537736	JX860839	KM210645	MT131196	MT131196	Fagaceae	Fagales
Quercus_griffithii	LM653004	OM021821	KY677187	KX838282	KX838282	Fagaceae	Fagales
Quercus_helferiana	MZ293775	MZ293782		MZ206337	MZ206337	Fagaceae	Fagales
Quercus_lanata	MF044848	MZ293784	KX836971	MZ206339	MZ206339	Fagaceae	Fagales
Quercus_leucotrichophora	LM653014	JX860844	MH059037			Fagaceae	Fagales
Quercus_lineata						Fagaceae	Fagales
Quercus_oxyodon	MH657829	MN311805	MT129811	MT131199	MT131199	Fagaceae	Fagales
Quercus_rex		MH058574	MH058929			Fagaceae	Fagales
Quercus_semecarpifolia	LM653032	OM021833	KU245765	KX838161	KX838161	Fagaceae	Fagales
Quercus_semiserrata						Fagaceae	Fagales
Quercus_serrata	LC694764	JX860843	LC365332	MT227766	MT227766	Fagaceae	Fagales
Quercus_thomsoniana						Fagaceae	Fagales
Engelhardia_spicata	MH113388	MW04407 3		AF303802	AF303802	Juglandaceae	Fagales
Engelhardtia_polystachya						Juglandaceae	Fagales
Engelhardtia_roxburghiana	KR529235	KR530781				Juglandaceae	Fagales
Juglans_regia	OM021774	OM021841	AY293344	HE574850	HE574850	Juglandaceae	Fagales
Myrica_esculenta	KJ594810			FJ469994	FJ469994	Myricaceae	Fagales
Alstonia_kurzii						Apocynaceae	Gentianales
Alstonia_macrophylla	GU135223	GU135061	GU135394	JX856398	JX856398	Apocynaceae	Gentianales
Alstonia_scholaries						Apocynaceae	Gentianales
Alstonia_scholaris	EU916739	JN228931	JX856820	MH566879	ON090440	Apocynaceae	Gentianales
Anodendron_parviflorum		MK577898				Apocynaceae	Gentianales
Calotropis_gigantea	MT332819	KX911177	JN245986	OP627197	OP627197	Apocynaceae	Gentianales
Calotropis_procera	MF694677	MF694833	LN896767	MK446934	MK446934	Apocynaceae	Gentianales
Carissa_carandas	MW20882 9	GQ220743		KC155289	HQ386688	Apocynaceae	Gentianales

Carissa_spinarum	KR737506	KR735128	MK477715	KR734002	KR734002	Apocynaceae	Gentianales
Cascabela_thevetia	ON934288	JN416982	JN245983	MH844599	MH844599	Apocynaceae	Gentianales
Cerbera_manghas	OK634690	MK982570	OK416426	KJ559417	KJ559417	Apocynaceae	Gentianales
Cerbera_odollam	MW20883 3	MK898782	MK895608		MK895645	Apocynaceae	Gentianales
Holarrhena_mitis						Apocynaceae	Gentianales
Holarrhena_pubescens	KX910862	EF456363	EF456250			Apocynaceae	Gentianales
Hunteria_zeylanica	MG816955	MG816827				Apocynaceae	Gentianales
Kopsia_fruticosa	L14402	Z70178				Apocynaceae	Gentianales
Nerium_oleander	MK672875	JQ412271	MT311770	HE602380	HE602380	Apocynaceae	Gentianales
Ochrosia_oppositifolia		LC655760		LC655776	LC655776	Apocynaceae	Gentianales
Plumeria_rubra	KP996853	JQ586555	MK477743	MH915659	MH915659	Apocynaceae	Gentianales
Rauvolfia_sumatrana		KT955396	MK477748	AB365186	AB365186	Apocynaceae	Gentianales
Rauvolfia_verticillata	KX910898	MK982591	MH837828	MH558660	MH558660	Apocynaceae	Gentianales
Tabernaemontana_alternifolia				MT106642	MT106642	Apocynaceae	Gentianales
Tabernaemontana_dichotoma						Apocynaceae	Gentianales
Tabernaemontana_divaricata	MW20884 1	JN228934	MK477724	MH566897		Apocynaceae	Gentianales
Tabernaemontana_gamblei						Apocynaceae	Gentianales
Wrightia_antidysenterica						Apocynaceae	Gentianales
Wrightia_arborea	LC456396	LC456395	LC456397	MT106639	MT106639	Apocynaceae	Gentianales
Wrightia_flavidorosea						Apocynaceae	Gentianales
Wrightia_puberula						Apocynaceae	Gentianales
Wrightia_tinctoria	JX856804	GQ220745	JX856977	JX856532	JX856532	Apocynaceae	Gentianales
Strychnos_benthamii						Loganiaceae	Gentianales
Strychnos_dalzellii	MZ675579	MZ675581		MZ505277	MZ505277	Loganiaceae	Gentianales
Strychnos_potatorum	KF381125	JF270953	JX856949	JF938027	JF938027	Loganiaceae	Gentianales
Strychnos_tetragona						Loganiaceae	Gentianales
Strychnos_wallichiana	MZ675577	MZ642287	KR533657	MZ504727	MZ504727	Loganiaceae	Gentianales

Utania_racemosa						Loganiaceae	Gentianales
Adina_cordifolia				AJ346884	AJ346884	Rubiaceae	Gentianales
Aidia_gardneri						Rubiaceae	Gentianales
Benkara_fasciculata						Rubiaceae	Gentianales
Byrsophyllum_ellipticum						Rubiaceae	Gentianales
Canthium_angustifolium						Rubiaceae	Gentianales
Canthium_coromandelicum	Z68851	HM119520		AJ315081	AJ315081	Rubiaceae	Gentianales
Canthium_neilgherrense						Rubiaceae	Gentianales
Canthium_rheedei						Rubiaceae	Gentianales
Canthiumera_glabra	KJ594641					Rubiaceae	Gentianales
Catunaregam_nilotica	AM117213	KJ136875				Rubiaceae	Gentianales
Catunaregam_spinosa	ON951166	JF270685	KP095441	MG995011	MG995011	Rubiaceae	Gentianales
Ceriscoides_campanulata						Rubiaceae	Gentianales
Ceriscoides_sessiliflora	KF964819	KJ815772	KF965179			Rubiaceae	Gentianales
Ceriscoides_turgida						Rubiaceae	Gentianales
Coffea_arabica	OL536829	AB973196	LC019713	MF417758	MF417758	Rubiaceae	Gentianales
Coffea_liberica	MZ668325	MZ668314		MN719960	MN719960	Rubiaceae	Gentianales
Deccania_pubescens	KF964825	KJ815807				Rubiaceae	Gentianales
Dichilanthe_zeylanica						Rubiaceae	Gentianales
Diplospora_erythrospora						Rubiaceae	Gentianales
Discospermum_abnorme						Rubiaceae	Gentianales
Discospermum_apiocarpum						Rubiaceae	Gentianales
Discospermum_sphaerocarpum						Rubiaceae	Gentianales
Diyaminauclea_zeylanica						Rubiaceae	Gentianales
Gaertnera_rosea	MF178793			MF178618	MF178618	Rubiaceae	Gentianales
Gaertnera_ternifolia				AY046332	AY046332	Rubiaceae	Gentianales
Gaertnera_vaginans	MF178798	LC736881		MF178623	MF178623	Rubiaceae	Gentianales
Gaertnera_walkeri	MF178800			AF333843	AF333843	Rubiaceae	Gentianales

Gardenia_coronaria	AB925692	AB924763	KJ815511			Rubiaceae	Gentianales
Gardenia_crameri						Rubiaceae	Gentianales
Gardenia_gummifera	KF381165					Rubiaceae	Gentianales
Gardenia_latifolia	MW159119	MW814868	MW854022			Rubiaceae	Gentianales
Gardenia_resinifera	JX856706	MG737420			JX856573	Rubiaceae	Gentianales
Guettarda_speciosa	MH767714	JX517544		KT333379	KT333379	Rubiaceae	Gentianales
Hedyotis_lessertiana						Rubiaceae	Gentianales
Hymenodictyon_obovatum						Rubiaceae	Gentianales
Hymenodictyon_orixense	GQ852336			KC737606	KC737606	Rubiaceae	Gentianales
Hypobathrum_microcarpum						Rubiaceae	Gentianales
Hyptianthera_stricta	KX527185	KR530953				Rubiaceae	Gentianales
Ixora_andamanensis						Rubiaceae	Gentianales
Ixora_brachiata						Rubiaceae	Gentianales
Ixora_calycina						Rubiaceae	Gentianales
Ixora_finlaysoniana	EU817423					Rubiaceae	Gentianales
Ixora_grandifolia						Rubiaceae	Gentianales
Ixora_javanica						Rubiaceae	Gentianales
Ixora_jucunda						Rubiaceae	Gentianales
Ixora_lawsonii						Rubiaceae	Gentianales
Ixora_malabarica						Rubiaceae	Gentianales
Ixora_nigricans	AB925882	AB925250				Rubiaceae	Gentianales
Ixora_notoniana						Rubiaceae	Gentianales
Ixora_pavetta				JX856466	JX856466	Rubiaceae	Gentianales
Ixora_pubirama						Rubiaceae	Gentianales
Ixora_subsessilis						Rubiaceae	Gentianales
Ixora_thwaitesii						Rubiaceae	Gentianales
Khasiaclunea_oligocephala						Rubiaceae	Gentianales

Lasianthus_biermannii						Rubiaceae	Gentianales
Lasianthus_hookeri	KR529503	KR531006	KR533815			Rubiaceae	Gentianales
Lasianthus_obliquus						Rubiaceae	Gentianales
Luculia_grandiflora						Rubiaceae	Gentianales
Luculia_pinceana	JF942323	JF954409	JN045271			Rubiaceae	Gentianales
Meyna_spinosa	MN108323	MN096266				Rubiaceae	Gentianales
Mitragyna_parvifolia	KC737718		JX856912	KC737617	KC737617	Rubiaceae	Gentianales
Mitragyna_rotundifolia	LC334415	LC334411	LC504199	AJ346874	AJ346874	Rubiaceae	Gentianales
Mitragyna_tubulosa	KC737720			KC737619	KC737619	Rubiaceae	Gentianales
Morinda_angustifolia	MW33935 4	KR531250	OP715643	FJ907050	FJ907050	Rubiaceae	Gentianales
Morinda_citrifolia	MH767716	MH768014	KJ426833	MH768312	MH768312	Rubiaceae	Gentianales
Morinda_coreia	AB925531	AB924909		FJ907064	FJ907064	Rubiaceae	Gentianales
Morinda_pubescens	MT083904	MT787087	MT787122		MT787157	Rubiaceae	Gentianales
Morinda_tomentosa						Rubiaceae	Gentianales
Nargedia_macrocarpa						Rubiaceae	Gentianales
Nauclea_orientalis	JF738523	MG816844		AJ346897	AJ346897	Rubiaceae	Gentianales
Neolamarckia_cadamba	KY988337	MW04409 4	MW04804 2	KC737632	KC737632	Rubiaceae	Gentianales
Neonauclea_calycina	MT780758	MG816847		MT780079	MT780079	Rubiaceae	Gentianales
Neonauclea_gageana						Rubiaceae	Gentianales
Neonauclea_griffithii	KR529809	KR531275	KR533884		KR532427	Rubiaceae	Gentianales
Ochreinauclea_missionis						Rubiaceae	Gentianales
Octotropis_travancorica						Rubiaceae	Gentianales
Pavetta_breviflora						Rubiaceae	Gentianales
Pavetta_crassicaulis						Rubiaceae	Gentianales
Pavetta_hispidula						Rubiaceae	Gentianales
Pavetta_indica	AB925508	AB924889		KM592313	KM592313	Rubiaceae	Gentianales
Pavetta_tomentosa						Rubiaceae	Gentianales

Prismatomeris_albidiflora	LN680382					Rubiaceae	Gentianales
Prismatomeris_tetrandra	MH069834	KR531401	MH069989	KR532507	KR532507	Rubiaceae	Gentianales
Psychotria_anamallayana						Rubiaceae	Gentianales
Psychotria_dalzellii				KJ804904	KJ804904	Rubiaceae	Gentianales
Psychotria_dubia						Rubiaceae	Gentianales
Psychotria_gardneri						Rubiaceae	Gentianales
Psychotria_glandulifera						Rubiaceae	Gentianales
Psychotria_longipetiolata						Rubiaceae	Gentianales
Psychotria_malayana	MG816974					Rubiaceae	Gentianales
Psychotria_meeboldii						Rubiaceae	Gentianales
Psychotria_nigra				KJ804928	KJ804928	Rubiaceae	Gentianales
Psychotria_octosulcata						Rubiaceae	Gentianales
Psychotria_platyneura						Rubiaceae	Gentianales
Psychotria_plurivenia						Rubiaceae	Gentianales
Psychotria_sohmeri						Rubiaceae	Gentianales
Psychotria_sordida						Rubiaceae	Gentianales
Psychotria_srilankensis						Rubiaceae	Gentianales
Psychotria_symplocifolia						Rubiaceae	Gentianales
Psychotria_zeylanica	KJ805774			KJ804978	KJ804978	Rubiaceae	Gentianales
Psydrax_dicoccos	AB925751	KP093419	KP095438	KP092780	KP092779	Rubiaceae	Gentianales
Psydrax_ficiformis						Rubiaceae	Gentianales
Psydrax_montanus						Rubiaceae	Gentianales
Psydrax_pergracilis	AB925564	AB924942				Rubiaceae	Gentianales
Psydrax_umbellatus	MT905069	MT150134		MT131263	MT131263	Rubiaceae	Gentianales
Ridsdalea_pulcherrima						Rubiaceae	Gentianales
Ridsdalea_schoemannii				MK123631	MK123631	Rubiaceae	Gentianales
Saprosma_corymbosa						Rubiaceae	Gentianales
Saprosma_ternata	MH280740	MH276633		MH275998	MH275998	Rubiaceae	Gentianales

Scyphostachys_coffeoides						Rubiaceae	Gentianales
Scyphostachys_pedunculatus				KX360045	KX360045	Rubiaceae	Gentianales
Tamilnadia_uliginosa	KF964887	KJ815800		MK165341	MK165341	Rubiaceae	Gentianales
Tarenna_asiatica	LC693779	LC680009	OK419672	KM592336	KM592336	Rubiaceae	Gentianales
Tarenna_campaniflora						Rubiaceae	Gentianales
Tarenna_flava				KM592340	KM592340	Rubiaceae	Gentianales
Tarenna_odorata						Rubiaceae	Gentianales
Tarenna_weberifolia						Rubiaceae	Gentianales
Tarennoidea_wallichii	MT934100	MW04408 4	MW04807 2	KR532653	KR532653	Rubiaceae	Gentianales
Timonius_flavescens				DQ063699	DQ063699	Rubiaceae	Gentianales
Tricalysia_erythrospora						Rubiaceae	Gentianales
Urophyllum_ceylanicum				HM042465	HM042465	Rubiaceae	Gentianales
Urophyllum_ellipticum	AJ288627			EU145389	EU145389	Rubiaceae	Gentianales
Wendlandia_bicuspidata						Rubiaceae	Gentianales
Wendlandia_budleioides						Rubiaceae	Gentianales
Wendlandia_gamblei						Rubiaceae	Gentianales
Wendlandia_glabrata						Rubiaceae	Gentianales
Wendlandia_heynei						Rubiaceae	Gentianales
Wendlandia_thyrsoidea	AM117283					Rubiaceae	Gentianales
Wendlandia_tinctoria	KR530215	HM119580	KR533922	KJ680484	KJ680484	Rubiaceae	Gentianales
Wendlandia_wallichii						Rubiaceae	Gentianales
Gnetum_gnemon	OL536915		AY849369			Gnetaceae	Gnetales
Apodytes_dimidiata	JX572309	KR530375		FJ156235	FJ156234	Icacinaceae	Icacinales
Mappia_nimmoniana						Icacinaceae	Icacinales
Avicennia_alba	KM255067	KP725235	MZ405095	EF540977	EF540977	Acanthaceae	Lamiales
Avicennia_marina	KM255068	KP725237	KT161360	MF063712	MF063712	Acanthaceae	Lamiales
Avicennia_officinalis	OM037432	KX231343	KT161361	MH243949	MH243949	Acanthaceae	Lamiales

Barleria_involucrata				MK066143	MK066143	Acanthaceae	Lamiales
Justicia_adhatoda	KX783903	OP491454	MG947188	KR425492	KR425492	Acanthaceae	Lamiales
Petalidium_barlerioides						Acanthaceae	Lamiales
Phlogacanthus_curviflorus	MH092646	KX526475	KT161369		KT004488	Acanthaceae	Lamiales
Phlogacanthus_parviflorus				MW81086 4	MW81086 4	Acanthaceae	Lamiales
Phlogacanthus_pubinervius						Acanthaceae	Lamiales
Phlogacanthus_thyrsiformis						Acanthaceae	Lamiales
Catalpa_bignonioides	MG222560	KJ772638	HE966547	MW74790 2	MW74790 2	Bignoniaceae	Lamiales
Dolichandrone_arcuata						Bignoniaceae	Lamiales
Dolichandrone_atrovirens						Bignoniaceae	Lamiales
Dolichandrone_falcata						Bignoniaceae	Lamiales
Dolichandrone_spathacea	OK634780	LC129151	OK636727			Bignoniaceae	Lamiales
Fernandoa_adenophylla	MH113394	LC129156				Bignoniaceae	Lamiales
Heterophragma_quadriloculare						Bignoniaceae	Lamiales
Millingtonia_hortensis	KU569180	MW18310 3				Bignoniaceae	Lamiales
Oroxylum_indicum	OL537020	OL690088	OL312406	KR532464	KR532464	Bignoniaceae	Lamiales
Pajanelia_longifolia	ON622471	ON622472				Bignoniaceae	Lamiales
Radermachera_xylocarpa	ON622474	ON622473		KF305771	KF305771	Bignoniaceae	Lamiales
Spathodea_campanulata	JX571895	JX495760	MW04807 0	MF616608	MF616608	Bignoniaceae	Lamiales
Stereospermum_chelonoides				KF199892	KF199892	Bignoniaceae	Lamiales
Stereospermum_colais	KR530044	KR531491	JQ899437	KR532586	KR532586	Bignoniaceae	Lamiales
Stereospermum_neuranthum	LC129147	LC129165				Bignoniaceae	Lamiales
Tecoma_stans	OL537139	JX495765	OL312322	OP600574	OP600574	Bignoniaceae	Lamiales
Tecomella_undulata	KT447540	KT447537	KY612262	KX096261	KX096261	Bignoniaceae	Lamiales
Aeschynanthus_bracteatus				AF349203	AF349283	Gesneriaceae	Lamiales
Callicarpa_arborea	OM837679	OM935788		FM163233	FM163233	Lamiaceae	Lamiales

Callicarpa_longifolia	JF739083	FM163279		OK384641	OK384641	Lamiaceae	Lamiales
Callicarpa_macrophylla	KR528882	KR530497	KR533828		MG730238	Lamiaceae	Lamiales
Callicarpa_tomentosa						Lamiaceae	Lamiales
Callicarpa_vestita						Lamiaceae	Lamiales
Clerodendrum_bracteatum		LN832024		MK953938	MK953938	Lamiaceae	Lamiales
Clerodendrum_phlomidis	ON755098	OM964897		KF199889	KF199889	Lamiaceae	Lamiales
Gmelina_arborea	MH113418	JX495721	MW048000		ON090439	Lamiaceae	Lamiales
Gmelina_elliptica						Lamiaceae	Lamiales
Leucosceptrum_canum	JF942245	JF954334	MW239131	KR608738	KR608738	Lamiaceae	Lamiales
Pogostemon_linearis	KR608522	KR608463	KR608587	KR608765	KR608765	Lamiaceae	Lamiales
Premna_barbata	MG836346	MG836375				Lamiaceae	Lamiales
Premna_bengalensis						Lamiaceae	Lamiales
Premna_bracteata	MG836345	MG836374				Lamiaceae	Lamiales
Premna_interrupta						Lamiaceae	Lamiales
Premna_milleflora						Lamiaceae	Lamiales
Premna_mollissima						Lamiaceae	Lamiales
Premna_serratifolia	JQ067698	KP998107	KP998108	KJ784578	KJ784578	Lamiaceae	Lamiales
Premna_tomentosa	MZ647691					Lamiaceae	Lamiales
Tectona_grandis	KY228843	KJ012800	KJ426963	FM163255	FM163255	Lamiaceae	Lamiales
Vitex_altissima	KY228857			KF170025	KF170025	Lamiaceae	Lamiales
Vitex_canescens	MH113415	AB284181				Lamiaceae	Lamiales
Vitex_diversifolia						Lamiaceae	Lamiales
Vitex_glabrata						Lamiaceae	Lamiales
Vitex_leucoxylon	KF796635				OR199361	Lamiaceae	Lamiales
Vitex_negundo	MH092652	LT219459	DQ304783	OM677805	OM677805	Lamiaceae	Lamiales
Vitex_peduncularis	AB925428	AB924817				Lamiaceae	Lamiales
Vitex_pinnata	OP491501	OP482034	MH070019	JX856528	JX856528	Lamiaceae	Lamiales

Vitex_quinata	OP491504	OP482037	MW048085	KR532711	KR532711	Lamiaceae	Lamiales
Vitex_trifolia	GU135285	AB284175	MH070020	KP092835	MG822326	Lamiaceae	Lamiales
Bonnaya_ciliata		MH212304				Linderniaceae	Lamiales
Chionanthus_albidiflorus						Oleaceae	Lamiales
Chionanthus_mala-elengi						Oleaceae	Lamiales
Chionanthus_parkinsonii						Oleaceae	Lamiales
Chionanthus_ramiflorus	KM895589	KM894499	HM999670	JX862576	JX862576	Oleaceae	Lamiales
Chionanthus_zeylanicus						Oleaceae	Lamiales
Chrysojasminum_humile	OL536955	OL690039	OL312248	AF534818	AF534818	Oleaceae	Lamiales
Fraxinus_micrantha			HM367496	EU314866	EU314866	Oleaceae	Lamiales
Fraxinus_xanthoxyloides		HM171526	AF231834	EU314900	EU314900	Oleaceae	Lamiales
Jasminum_malabaricum		OP729927	MG754891	KX887234	KX887234	Oleaceae	Lamiales
Ligustrum_glomeratum						Oleaceae	Lamiales
Ligustrum_robustum	JF942294	JF954386	JN045240	JF830380	JF830380	Oleaceae	Lamiales
Nyctanthes_arbor-tristis	JQ734520	HQ384547		MW046251	MW046251	Oleaceae	Lamiales
Olea_europaea	OL537016	LC708255	KU528159	OQ124163	DQ179220	Oleaceae	Lamiales
Olea_paniculata	KM895529			JX862656	JX862656	Oleaceae	Lamiales
Osmanthus_fragrans	MT934060	EU409428	MW047881	EU314904	EU314904	Oleaceae	Lamiales
Schrebera_swietenioides						Oleaceae	Lamiales
Syringa_emodi	KU528371	KU528104	ON759812	KU528536	KU528536	Oleaceae	Lamiales
Tetrapilus_dioicus	KP094844		KP095520	JX862651	JX862651	Oleaceae	Lamiales
Tetrapilus_polygamus						Oleaceae	Lamiales
Tetrapilus_salicifolius	MH113395			KF186443	KF186443	Oleaceae	Lamiales
Wightia_speciosissima				KJ563189	KJ563189	Paulowniaceae	Lamiales
Buddleja_asiatica	MN095732	MK982563	KP095523		MH813036	Scrophulariaceae	Lamiales
Buddleja_crispa	MH232032	MH208346	JN825728			Scrophulariaceae	Lamiales

Buddleja_paniculata	MG516824					Scrophulariaceae	Lamiales
Duranta_erecta	MT385750	KX783670	MH837896	MH566934	MH566934	Verbenaceae	Lamiales
Gyrocarpus_americanus	KF381159	JF270812	GQ131064			Hernandiaceae	Laurales
Hernandia_nymphaeifolia	KF496470	LC680635	OK420420			Hernandiaceae	Laurales
Actinodaphne_albifrons						Lauraceae	Laurales
Actinodaphne_ambigua						Lauraceae	Laurales
Actinodaphne_angustifolia				LC504506	LC504506	Lauraceae	Laurales
Actinodaphne_bourdillonii						Lauraceae	Laurales
Actinodaphne_bourneae						Lauraceae	Laurales
Actinodaphne_candolleana						Lauraceae	Laurales
Actinodaphne_elegans						Lauraceae	Laurales
Actinodaphne_glauca						Lauraceae	Laurales
Actinodaphne_lanceolata				KY010289	KY010289	Lauraceae	Laurales
Actinodaphne_lawsonii						Lauraceae	Laurales
Actinodaphne_madraspatana	KF432054					Lauraceae	Laurales
Actinodaphne_molochina						Lauraceae	Laurales
Actinodaphne_obovata	KX546792	KX545911	KX546078	KX546396	KX546396	Lauraceae	Laurales
Actinodaphne_pisifera						Lauraceae	Laurales
Actinodaphne_procera				AB260854	AB260854	Lauraceae	Laurales
Actinodaphne_sikkimensis						Lauraceae	Laurales
Actinodaphne_speciosa						Lauraceae	Laurales
Actinodaphne_stenophylla						Lauraceae	Laurales
Actinodaphne_tadulingamii						Lauraceae	Laurales
Actinodaphne_wightiana						Lauraceae	Laurales
Alseodaphne_khasyana						Lauraceae	Laurales
Alseodaphne_owdenii						Lauraceae	Laurales
Alseodaphne_panduriformis						Lauraceae	Laurales
Alseodaphne_semecarpifolia	KR528689		AF268799	MG188583	MG188583	Lauraceae	Laurales

Alseodaphnopsis_andersonii	MZ226533	MZ226456	KR533186	EF538687	EF538687	Lauraceae	Laurales
Alseodaphnopsis_petiolaris	MT933750	KR530334	KR533188	MW82623 4	MW82623 4	Lauraceae	Laurales
Beilschmiedia_assamica						Lauraceae	Laurales
Beilschmiedia_brandisii						Lauraceae	Laurales
Beilschmiedia_dalzellii						Lauraceae	Laurales
Beilschmiedia_lucidula						Lauraceae	Laurales
Beilschmiedia_roxburghiana	KX546812	KX546061	KX546089	KR531837	KR531837	Lauraceae	Laurales
Beilschmiedia_wightii						Lauraceae	Laurales
Beilschmiedia_zeylanica						Lauraceae	Laurales
Cinnamomum_bejolghota	KX546824	MZ169848	KY235183	KX546413	KX546413	Lauraceae	Laurales
Cinnamomum_capparu-coronde	MK243400		MW40832 4			Lauraceae	Laurales
Cinnamomum_citriodorum	JQ843681	JQ843686	MW40830 3			Lauraceae	Laurales
Cinnamomum_dubium	MK243403	MT475829	MW40830 6		MH232442	Lauraceae	Laurales
Cinnamomum_glanduliferum	OK562458	MZ226477	MZ226631	MZ230399	MZ230399	Lauraceae	Laurales
Cinnamomum_glaucescens	MF186598	KP318145				Lauraceae	Laurales
Cinnamomum_impressinervium						Lauraceae	Laurales
Cinnamomum_keralaense	JX414038	JX185547	MH232505		MH232450	Lauraceae	Laurales
Cinnamomum_macrocarpum			MH232515		MN519276	Lauraceae	Laurales
Cinnamomum_malabatrum	KY945247	MF662767	MH232513		MH232458	Lauraceae	Laurales
Cinnamomum_ovalifolium	MW38696 3	MW40827 4	MW40831 2			Lauraceae	Laurales
Cinnamomum_perrottetii	JX414041		MH232527		MH232472	Lauraceae	Laurales
Cinnamomum_riparium	MW07488 3	MF589648	MH232529		MH232474	Lauraceae	Laurales
Cinnamomum_rivulorum	MW38696 2	MW40827 1	MW40831 5	OQ888700	OQ888700	Lauraceae	Laurales

Cinnamomum_sinharajaense	JQ843680	JQ843685	MW408318			Lauraceae	Laurales
Cinnamomum_sulphuratum	MF158637	MF589650	MF072387		MH232478	Lauraceae	Laurales
Cinnamomum_tamala	KT354297	MF685882	MK578170	KX822091	KX822091	Lauraceae	Laurales
Cinnamomum_verum	KF744230	KF978094	KF978095	OQ867448	OQ867448	Lauraceae	Laurales
Cinnamomum_wightii		JX185549	MH232544		MH232489	Lauraceae	Laurales
Cryptocarya_amygdalina						Lauraceae	Laurales
Cryptocarya_beddomei						Lauraceae	Laurales
Cryptocarya_caesia						Lauraceae	Laurales
Cryptocarya_membranacea						Lauraceae	Laurales
Cryptocarya_wightiana						Lauraceae	Laurales
Dehaasia_firma	LC736199	LC736938	LC737516			Lauraceae	Laurales
Dehaasia_kurzii						Lauraceae	Laurales
Dodecadenia_grandiflora		AF244409		AY265397	AY265397	Lauraceae	Laurales
Lindera_assamica						Lauraceae	Laurales
Lindera_caudata						Lauraceae	Laurales
Lindera_latifolia	KX546885	MW044284	MW047803	DQ124264	DQ124264	Lauraceae	Laurales
Lindera_nacusua	KP094491	KP093564	KP095556			Lauraceae	Laurales
Lindera_neesiana						Lauraceae	Laurales
Lindera_pulcherrima	KX546902	KX545947	KX546163	DQ124267	DQ124267	Lauraceae	Laurales
Lindera_reticulata						Lauraceae	Laurales
Litsea_albescens						Lauraceae	Laurales
Litsea_bourdillonii				KY010291	KY010291	Lauraceae	Laurales
Litsea_chartacea						Lauraceae	Laurales
Litsea_coriacea				KX953266	KX953266	Lauraceae	Laurales
Litsea_deccanensis				KY010292	KY010292	Lauraceae	Laurales
Litsea_doshia						Lauraceae	Laurales

Litsea_elongata	OK562549	MW04428 9	HQ427104		KX546648	Lauraceae	Laurales
Litsea_floribunda				KX953267	KX953267	Lauraceae	Laurales
Litsea_fosbergii						Lauraceae	Laurales
Litsea_gardneri						Lauraceae	Laurales
Litsea_ghatica				KY010293	KY010293	Lauraceae	Laurales
Litsea_glaberrima						Lauraceae	Laurales
Litsea_glabrata				KX953268	KX953268	Lauraceae	Laurales
Litsea_glutinosa	MZ226574	MW04411 7	MW04802 4	MZ230413	MZ230413	Lauraceae	Laurales
Litsea_hookeri						Lauraceae	Laurales
Litsea_iteodaphne						Lauraceae	Laurales
Litsea_keralana						Lauraceae	Laurales
Litsea_kingii	KX546947	KX546062	KX546201		KX546653	Lauraceae	Laurales
Litsea_kurzii						Lauraceae	Laurales
Litsea_laeta						Lauraceae	Laurales
Litsea_laevigata				KY010294	KY010294	Lauraceae	Laurales
Litsea_lancifolia	KX546951	KX545886	LC737533	AB260873	AB260873	Lauraceae	Laurales
Litsea_ligustrina						Lauraceae	Laurales
Litsea_meghalayensis						Lauraceae	Laurales
Litsea_membranifolia						Lauraceae	Laurales
Litsea_monopetala	MG817023	HM019346	KP095562	DQ120602	DQ120602	Lauraceae	Laurales
Litsea_mysorensis				KY010295	KY010295	Lauraceae	Laurales
Litsea_nemoralis						Lauraceae	Laurales
Litsea_oleoides						Lauraceae	Laurales
Litsea_ovalifolia						Lauraceae	Laurales
Litsea_panamanja	KX546963	KX545739	KR533122	DQ120610	DQ120610	Lauraceae	Laurales
Litsea_salicifolia	KF523365	KF523364	KX546223		KX546665	Lauraceae	Laurales
Litsea_semecarpifolia						Lauraceae	Laurales

Litsea_sericea	MZ226577	MZ226500	MZ226654	DQ120601	DQ120601	Lauraceae	Laurales
Litsea_stocksii						Lauraceae	Laurales
Litsea_travancorica						Lauraceae	Laurales
Litsea_umbellata	MG817005	MG816862		AB260883	AB260883	Lauraceae	Laurales
Litsea_venulosa						Lauraceae	Laurales
Litsea_wightiana		AB259080	MZ226651	AB260871	AB260871	Lauraceae	Laurales
Machilus_clarkeanus						Lauraceae	Laurales
Machilus_duthiei	JF942452	JF954538	MZ226656	MT628604	MT628604	Lauraceae	Laurales
Machilus_edulis						Lauraceae	Laurales
Machilus_gamblei	JF942458	JF954544	MW04783 3	LC388275	LC388275	Lauraceae	Laurales
Machilus_glaucescens						Lauraceae	Laurales
Machilus_globosus						Lauraceae	Laurales
Machilus_kurzii	LC388248	LC388310	KX546265	KX546488	KX546488	Lauraceae	Laurales
Machilus_odoratissimus						Lauraceae	Laurales
Machilus_parviflorus						Lauraceae	Laurales
Machilus_robustus						Lauraceae	Laurales
Neocinnamomum_caudatum	MZ226588	MZ226511	MZ226665	GU082368	GU082368	Lauraceae	Laurales
Neolitsea_cassia	AY298841	AB259095		AB260885	AB260885	Lauraceae	Laurales
Neolitsea_cuipala						Lauraceae	Laurales
Neolitsea_fischeri						Lauraceae	Laurales
Neolitsea_foliosa						Lauraceae	Laurales
Neolitsea_fuscata						Lauraceae	Laurales
Neolitsea_lancifolia						Lauraceae	Laurales
Neolitsea_umbrosa	KP094833	HQ415377	KP095595	LC258552	LC258552	Lauraceae	Laurales
Neolitsea_zeylanica	KX909581	KX546035	KX546371	KY007074	KX546771	Lauraceae	Laurales
Persea_americana	AY841592	JQ588149	JQ513882	KX509877	KX509877	Lauraceae	Laurales
Phoebe_angustifolia		MW84962 0		MW82624 6		Lauraceae	Laurales

Phoebe_bootanica						Lauraceae	Laurales
Phoebe_cathia						Lauraceae	Laurales
Phoebe_cooperiana						Lauraceae	Laurales
Phoebe_lanceolata	MT933871	MW84962 3	MW04804 8	MW82624 9	MW82624 9	Lauraceae	Laurales
Phoebe_pallida						Lauraceae	Laurales
Phoebe_wightii						Lauraceae	Laurales
Smilax_minutiflora						Smilacaceae	Liliales
Alphonsea_hortensis						Annonaceae	Magnoliales
Alphonsea_lutea						Annonaceae	Magnoliales
Alphonsea_ventricosa						Annonaceae	Magnoliales
Alphonsea_zeylanica						Annonaceae	Magnoliales
Anaxagorea_javanica	AY319075	AY518882	AY578316			Annonaceae	Magnoliales
Anaxagorea_luzonensis	AY319074	AY518883	AY578317			Annonaceae	Magnoliales
Annona_reticulata	KX663890	JQ586493	KX664019		MW37473 1	Annonaceae	Magnoliales
Annona_squamosa	OM678558	MT947750	EU715086	JN115014	JN115014	Annonaceae	Magnoliales
Cananga_odorata	MH069754	AY841394	AY841431	LC438906	MF349161	Annonaceae	Magnoliales
Cyathocalyx_malabaricus						Annonaceae	Magnoliales
Cyathocalyx_martabanicus	HM173788	MT810442	HM173702			Annonaceae	Magnoliales
Cyathocalyx_zeylanicus	HM173796	HM173739	HM173710			Annonaceae	Magnoliales
Dasymaschalon_dasymaschalum		MT264031	MT264007			Annonaceae	Magnoliales
Desmos_zeylanicus						Annonaceae	Magnoliales
Goniothalamus_cardiopetalus	KM818799	KM818575	KM818692			Annonaceae	Magnoliales
Goniothalamus_gardneri	KM818784	EU715071	EU715093			Annonaceae	Magnoliales
Goniothalamus_hookeri	KM818814	KM818589	KM818872			Annonaceae	Magnoliales
Goniothalamus_macranthus	KM818792	KM818595	KM818873			Annonaceae	Magnoliales
Goniothalamus_malayanus	KM818835	EU715075				Annonaceae	Magnoliales
Goniothalamus_salicinus						Annonaceae	Magnoliales

Goniothalamus_sesquipedalis	KM818825	KM818613	KM818719			Annonaceae	Magnoliales
Goniothalamus_thomsonii	KM818834	KM818621	KM818733			Annonaceae	Magnoliales
Goniothalamus_thwaitesii		KM818622	KM818703			Annonaceae	Magnoliales
Huberantha_cerasoides	KR529915	KR531376	KR533232			Annonaceae	Magnoliales
Huberantha_jenkinsii			JX544812			Annonaceae	Magnoliales
Huberantha_korinti	EU522289	EU522234	EU522124			Annonaceae	Magnoliales
Maasia_glauca	LC736559	LC736997	MG264571			Annonaceae	Magnoliales
Marsypopetalum_modestum			KC857562			Annonaceae	Magnoliales
Meiogyne_pannosa	JQ723865	JQ723778				Annonaceae	Magnoliales
Meiogyne_ramarowii						Annonaceae	Magnoliales
Miliusa_dioeca			JQ690496			Annonaceae	Magnoliales
Miliusa_horsfieldii	AY318986	AY518849	JQ690448			Annonaceae	Magnoliales
Miliusa_indica	JQ723868	JQ723781	KM924988			Annonaceae	Magnoliales
Miliusa_montana		JQ690507	JQ690509			Annonaceae	Magnoliales
Miliusa_tomentosa						Annonaceae	Magnoliales
Miliusa_velutina	AY318993	AY518847	JQ690537			Annonaceae	Magnoliales
Miliusa_wightiana						Annonaceae	Magnoliales
Miliusa_zeylanica						Annonaceae	Magnoliales
Mitrephora_grandiflora						Annonaceae	Magnoliales
Mitrephora_heyneana						Annonaceae	Magnoliales
Mitrephora_maingayi	KR529770					Annonaceae	Magnoliales
Mitrephora_tomentosa	AB925743	AB925113				Annonaceae	Magnoliales
Monoon_acuminatum						Annonaceae	Magnoliales
Monoon_coffeoides	MW114785	EU522233	EU522123		MW355076	Annonaceae	Magnoliales
Monoon_fragrans						Annonaceae	Magnoliales
Monoon_lateriflorum	LC736563	LC736999	KF709060			Annonaceae	Magnoliales
Monoon_longifolium	ON756127	MW114797	MW355058		MW355072	Annonaceae	Magnoliales

Monoon_simiarum						Annonaceae	Magnoliales
Orophea_erythrocarpa						Annonaceae	Magnoliales
Orophea_katschallica						Annonaceae	Magnoliales
Orophea_uniflora						Annonaceae	Magnoliales
Orophea_zeylanica						Annonaceae	Magnoliales
Phoenicanthus_coriacea						Annonaceae	Magnoliales
Phoenicanthus_obliquus	MG264582	MG264587	MG264574			Annonaceae	Magnoliales
Polyalthia_moonii						Annonaceae	Magnoliales
Polyalthia_persicifolia						Annonaceae	Magnoliales
Polyalthia_suberosa	AY319038	AY238965	AY841502	JX856491	JX856491	Annonaceae	Magnoliales
Pseuduvaria_prainii						Annonaceae	Magnoliales
Sageraea_elliptica	LC736607	KF682114	LC737580			Annonaceae	Magnoliales
Sageraea_laurina						Annonaceae	Magnoliales
Sageraea_listeri						Annonaceae	Magnoliales
Sageraea_thwaitesii						Annonaceae	Magnoliales
Sageraea_zeylanica						Annonaceae	Magnoliales
Xylopia_championii						Annonaceae	Magnoliales
Xylopia_nigricans						Annonaceae	Magnoliales
Xylopia_patoniae						Annonaceae	Magnoliales
Magnolia_baillonii	MT933855	MW04417 9	MW04803 3	MN990506	MN990506	Magnoliaceae	Magnoliales
Magnolia_campbellii	KU853578	AB055531	KU853596	KU853479	KU853479	Magnoliaceae	Magnoliales
Magnolia_cathcartii	AY008907	AF123473	AY009015	MN990497	MN990497	Magnoliaceae	Magnoliales
Magnolia_caveana						Magnoliaceae	Magnoliales
Magnolia_champaca	MZ350836	AB623273	GQ435216	KC984648	KC984648	Magnoliaceae	Magnoliales
Magnolia_doltsopa	MZ464296	MZ464448	MZ464547			Magnoliaceae	Magnoliales
Magnolia_globosa						Magnoliaceae	Magnoliales
Magnolia_grandiflora	GQ120447	GQ248151	GQ248334	MN990522	MN990522	Magnoliaceae	Magnoliales

Magnolia_griffithii						Magnoliaceae	Magnoliales
Magnolia_gustavi						Magnoliaceae	Magnoliales
Magnolia_hodgsonii	MN226946	JN050055	AB623319	MN990515	MN990515	Magnoliaceae	Magnoliales
Magnolia_insignis	MZ464307	MW04424 5	MW04786 1	MN990505	MN990505	Magnoliaceae	Magnoliales
Magnolia_kisopa						Magnoliaceae	Magnoliales
Magnolia_lanuginosa						Magnoliaceae	Magnoliales
Magnolia_liliifera	MH113358	AY008998	AB021043	MN990538	MN990538	Magnoliaceae	Magnoliales
Magnolia_nilagirica						Magnoliaceae	Magnoliales
Magnolia_oblonga						Magnoliaceae	Magnoliales
Magnolia_pealiana	AY008901	AY008979	AY009010			Magnoliaceae	Magnoliales
Magnolia_pterocarpa	AY008931	AB055528	AY009029			Magnoliaceae	Magnoliales
Manglietia_hookeri		AB623290	AB623316	MW92959 8		Magnoliaceae	Magnoliales
Pachylarnax_pleiocarpa						Magnoliaceae	Magnoliales
Endocomia_macrocoma	JF738884					Myristicaceae	Magnoliales
Gymnacranthera_canarica		OK053213	OK053223			Myristicaceae	Magnoliales
Horsfieldia_amygdalina	OK562577	KR530943				Myristicaceae	Magnoliales
Horsfieldia_irya	JF738509					Myristicaceae	Magnoliales
Horsfieldia_iryaghedhi	MG817055	AY220448	GQ248316			Myristicaceae	Magnoliales
Horsfieldia_kingii	OK562536	MW04418 9	MW04801 1		MW04439 6	Myristicaceae	Magnoliales
Knema_andamanica						Myristicaceae	Magnoliales
Knema_angustifolia						Myristicaceae	Magnoliales
Knema_attenuata	MF547520	OK053210	OK053228			Myristicaceae	Magnoliales
Knema_erratica						Myristicaceae	Magnoliales
Knema_globularia	KR529464	KR530970	KR533300			Myristicaceae	Magnoliales
Knema_linifolia	KR529470	KR530976	KR533308			Myristicaceae	Magnoliales
Knema_tenuinervia	OK562525	KR530983	KR533309			Myristicaceae	Magnoliales

Myristica_andamanica	MF158639	MF547529	MF086597			Myristicaceae	Magnoliales
Myristica_beddomei	MF186601	MF547538	OK053220			Myristicaceae	Magnoliales
Myristica_dactyloides						Myristicaceae	Magnoliales
Myristica_elliptica	KU853183	KU853112				Myristicaceae	Magnoliales
Myristica_fragrans	OK052776	KT445278	KT758178			Myristicaceae	Magnoliales
Myristica_malabarica	KY945263	OK053207	OK053234			Myristicaceae	Magnoliales
Chlorocarpa_pentaschista						Achariaceae	Malpighiales
Erythrospermum_zeylanicum						Achariaceae	Malpighiales
Gynocardia_odorata	MH667434					Achariaceae	Malpighiales
Hydnocarpus_alpinus						Achariaceae	Malpighiales
Hydnocarpus_castanea						Achariaceae	Malpighiales
Hydnocarpus_kurzii						Achariaceae	Malpighiales
Hydnocarpus_octandrus						Achariaceae	Malpighiales
Hydnocarpus_pentandrus		EF135551				Achariaceae	Malpighiales
Hydnocarpus_venenatus						Achariaceae	Malpighiales
Ryparosa_javanica	JF738440	MG816911				Achariaceae	Malpighiales
Trichadenia_zeylanica	AJ403011	EF135597				Achariaceae	Malpighiales
Calophyllum_acidus						Calophyllaceae	Malpighiales
Calophyllum_apetalum						Calophyllaceae	Malpighiales
Calophyllum_austroindicum						Calophyllaceae	Malpighiales
Calophyllum_bracteatum						Calophyllaceae	Malpighiales
Calophyllum_calaba	HM446765	AB924831	HM446894			Calophyllaceae	Malpighiales
Calophyllum_cordato-oblongum						Calophyllaceae	Malpighiales
Calophyllum_cuneifolium						Calophyllaceae	Malpighiales
Calophyllum_inophyllum	MW575765	HQ331553				Calophyllaceae	Malpighiales
Calophyllum_lankaensis						Calophyllaceae	Malpighiales
Calophyllum_macrocarpum	LC736141	LC737037	LC737603			Calophyllaceae	Malpighiales

Calophyllum_membranaceum	HQ415099	KP093730	HQ415450	KP092913	KP092913	Calophyllaceae	Malpighiales
Calophyllum_moonii						Calophyllaceae	Malpighiales
Calophyllum_polyanthum	MT933772	MW044132	MW047955	KR531869	KR531869	Calophyllaceae	Malpighiales
Calophyllum_soulattri	LC736144	LC737039	LC737605	AY625639	AY625639	Calophyllaceae	Malpighiales
Calophyllum_thwaitesii						Calophyllaceae	Malpighiales
Calophyllum_tomentosum						Calophyllaceae	Malpighiales
Calophyllum_trapezifolium						Calophyllaceae	Malpighiales
Calophyllum_vergens						Calophyllaceae	Malpighiales
Calophyllum_walkeri						Calophyllaceae	Malpighiales
Kayea_assamica						Calophyllaceae	Malpighiales
Kayea_floribunda						Calophyllaceae	Malpighiales
Kayea_stylosa	AF518385	HQ331640		AY625634	AY625634	Calophyllaceae	Malpighiales
Mammea_suriga	KX621284			KY706611	KY706611	Calophyllaceae	Malpighiales
Mesua_ferrea	MN099230	MW044157	MW048031	AY625635	AY625635	Calophyllaceae	Malpighiales
Mesua_pulchella	MW803050					Calophyllaceae	Malpighiales
Mesua_thwaitesii	MW803048					Calophyllaceae	Malpighiales
Poeciloneuron_indicum	AY625023	HQ331673		MW940711	MW940711	Calophyllaceae	Malpighiales
Bhesa_ceylanica						Centroplacaceae	Malpighiales
Bhesa_indica						Centroplacaceae	Malpighiales
Bhesa_nitidissima						Centroplacaceae	Malpighiales
Bhesa_robusta	KJ594627	KJ708849		AY935866	AY935866	Centroplacaceae	Malpighiales
Atuna_travancorica						Chrysobalanaceae	Malpighiales
Garcinia_andamanica						Clusiaceae	Malpighiales
Garcinia_anomala						Clusiaceae	Malpighiales

Garcinia_cadelliana						Clusiaceae	Malpighiales
Garcinia_cambogioides						Clusiaceae	Malpighiales
Garcinia_celebica	OK052762				OK052907	Clusiaceae	Malpighiales
Garcinia_cowa	OK562520	KJ510948		MT160372	MT160372	Clusiaceae	Malpighiales
Garcinia_echinocarpa						Clusiaceae	Malpighiales
Garcinia_floribunda						Clusiaceae	Malpighiales
Garcinia_gummi-gutta	KF783270	KY368647	KY697812	KX765284	KX765284	Clusiaceae	Malpighiales
Garcinia_hermonii						Clusiaceae	Malpighiales
Garcinia_indica	KF783272	KY678884	KY697819	MN099223	MN099223	Clusiaceae	Malpighiales
Garcinia_lanceifolia	KF783273			MN511173	MN511173	Clusiaceae	Malpighiales
Garcinia_mangostana	OK052763	LC461846	KY697826			Clusiaceae	Malpighiales
Garcinia_nervosa	HQ332059	HQ331604		AF367222	AF367222	Clusiaceae	Malpighiales
Garcinia_pedunculata	KF783274		KP318379	KP318346	KP318346	Clusiaceae	Malpighiales
Garcinia_quaesita						Clusiaceae	Malpighiales
Garcinia_sopsopia						Clusiaceae	Malpighiales
Garcinia_spicata	HQ332063	HQ331608	KP318399	EU128390	EU128390	Clusiaceae	Malpighiales
Garcinia_stipulata						Clusiaceae	Malpighiales
Garcinia_talbotii	KX492572		KX587563	KX575867	KX575867	Clusiaceae	Malpighiales
Garcinia_terpnophylla						Clusiaceae	Malpighiales
Garcinia_thwaitesii						Clusiaceae	Malpighiales
Garcinia_travancorica	MW75214 9			MT160386	MT160386	Clusiaceae	Malpighiales
Garcinia_xanthochymus	KX522652	KY678880	KY697811	MT160388	MT160388	Clusiaceae	Malpighiales
Garcinia_zeylanica						Clusiaceae	Malpighiales
Dichapetalum_gelonioides	KR529102		KR534146	KR531987	KR531987	Dichapetalaceae	Malpighiales
Dichapetalum_zeylanicum						Dichapetalaceae	Malpighiales
Erythroxylum_lanceolatum						Erythroxylaceae	Malpighiales
Erythroxylum_monogynum	KC503285	MG737440	KC503279			Erythroxylaceae	Malpighiales

Erythroxylum_obtusifolium						Erythroxylaceae	Malpighiales
Erythroxylum_parish						Erythroxylaceae	Malpighiales
Acalypha_fruticosa				OM140896	OM140896	Euphorbiaceae	Malpighiales
Agrostistachys_borneensis	AB233856	AB233752				Euphorbiaceae	Malpighiales
Agrostistachys_hookeri						Euphorbiaceae	Malpighiales
Agrostistachys_indica	AB925297	AB924687				Euphorbiaceae	Malpighiales
Alchornea_tiliifolia	OK562470	KR530317	KR533952	KR531713	KR531713	Euphorbiaceae	Malpighiales
Balakata_baccata	MG817040	MG816891				Euphorbiaceae	Malpighiales
Blachia_andamanica						Euphorbiaceae	Malpighiales
Blachia_calycina						Euphorbiaceae	Malpighiales
Blachia_denudata	MW51283 9					Euphorbiaceae	Malpighiales
Blachia_umbellata						Euphorbiaceae	Malpighiales
Blumeodendron_kurzii				DQ866525	DQ866525	Euphorbiaceae	Malpighiales
Claoxylon_indicum	KU243039		MH837880	MH566920	MH566920	Euphorbiaceae	Malpighiales
Claoxylon_rostratum						Euphorbiaceae	Malpighiales
Cleidion_javanicum	KF496299					Euphorbiaceae	Malpighiales
Cleidion_nitidum						Euphorbiaceae	Malpighiales
Cleidion_spiciflorum						Euphorbiaceae	Malpighiales
Croton_argyratus	MG817033	MG816883		HM564075	HM564075	Euphorbiaceae	Malpighiales
Croton_gibsonianus						Euphorbiaceae	Malpighiales
Croton_joufra						Euphorbiaceae	Malpighiales
Croton_klotzschianus				AY971222	AY971222	Euphorbiaceae	Malpighiales
Croton_lissophyllus						Euphorbiaceae	Malpighiales
Croton_malabaricus						Euphorbiaceae	Malpighiales
Croton_moonii						Euphorbiaceae	Malpighiales
Croton_nigroviridis						Euphorbiaceae	Malpighiales
Croton_persimilis	KF523366					Euphorbiaceae	Malpighiales

Croton_scabiosus						Euphorbiaceae	Malpighiales
Croton_tiglium	GQ436320	KP093547	KC758659	KP878399	KP878399	Euphorbiaceae	Malpighiales
Endospermum_chinense	KP095078	KP094119			MH813180	Euphorbiaceae	Malpighiales
Endospermum_diadenum	KJ594703	KJ708925				Euphorbiaceae	Malpighiales
Epiprinus_mallotiformis						Euphorbiaceae	Malpighiales
Euphorbia_umbellata				MT533338	MT533338	Euphorbiaceae	Malpighiales
Excoecaria_agallocha	KM255073	KM255088	MK084735	LC604848	LC604848	Euphorbiaceae	Malpighiales
Excoecaria_oppositifolia						Euphorbiaceae	Malpighiales
Falconeria_insignis						Euphorbiaceae	Malpighiales
Givotia_moluccana						Euphorbiaceae	Malpighiales
Hevea_brasiliensis	MK510192	AB268047				Euphorbiaceae	Malpighiales
Homonoia_intermedia						Euphorbiaceae	Malpighiales
Homonoia_riparia	AY794978					Euphorbiaceae	Malpighiales
Jatropha_curcas	KU556647	JQ587459	MH837784	KP191040	KP191040	Euphorbiaceae	Malpighiales
Macaranga_andamanica	HQ415215	HQ415380	HQ415562		KP096049	Euphorbiaceae	Malpighiales
Macaranga_denticulata	KP752375			DQ866546	DQ866546	Euphorbiaceae	Malpighiales
Macaranga_digyna						Euphorbiaceae	Malpighiales
Macaranga_indica	KR529613			DQ866560	DQ866560	Euphorbiaceae	Malpighiales
Macaranga_peltata	MW36573 5	MW36574 0	MW85402 1			Euphorbiaceae	Malpighiales
Macaranga_tanarius	MH069797	AB233762	MH069942	AJ275671	AJ275671	Euphorbiaceae	Malpighiales
Mallotus_atrovirens						Euphorbiaceae	Malpighiales
Mallotus_aureopunctatus				MG762732	MG762732	Euphorbiaceae	Malpighiales
Mallotus_fuscescens						Euphorbiaceae	Malpighiales
Mallotus_nepalensis		EF582666				Euphorbiaceae	Malpighiales
Mallotus_nudiflorus		EF582668		KM199586	KM199586	Euphorbiaceae	Malpighiales
Mallotus_paniculatus	KR529660	HQ415384	KJ686632	AJ275678	AJ275678	Euphorbiaceae	Malpighiales
Mallotus_peltatus	JF738870	EF582672		DQ866610	DQ866610	Euphorbiaceae	Malpighiales

Mallotus_philippensis	MW34411 9	HQ415385	MG947193	DQ866614	DQ866614	Euphorbiaceae	Malpighiales
Mallotus_polycarpus						Euphorbiaceae	Malpighiales
Mallotus_resinosus		EF582679		DQ866618	DQ866618	Euphorbiaceae	Malpighiales
Mallotus_rhamnifolius		EF582680		DQ866619	DQ866619	Euphorbiaceae	Malpighiales
Mallotus_roxburghianus						Euphorbiaceae	Malpighiales
Mallotus_tetracoccus	KR529670	EF582683		MG762734	MG762734	Euphorbiaceae	Malpighiales
Mallotus_thunbergianus						Euphorbiaceae	Malpighiales
Manihot_carthagenensis	MK430314					Euphorbiaceae	Malpighiales
Manihot_esculenta	AB233880	JQ587466	MW94067 4	GU214953	GU214953	Euphorbiaceae	Malpighiales
Ostodes_paniculata	KR529865	KR531329	KR533527	MT040443	MT040443	Euphorbiaceae	Malpighiales
Paracroton_pendulus	MH332451					Euphorbiaceae	Malpighiales
Paracroton_zeylanicus	AY794894			AY972074	AY972074	Euphorbiaceae	Malpighiales
Podadenia_sapida						Euphorbiaceae	Malpighiales
Pseudoglochidion_anamalayanu m	KC514096	KC514100		KC414629	KC414629	Euphorbiaceae	Malpighiales
Ricinus_communis	OL537090	GU135045	MW94069 7	MW84383 3	MW84383 3	Euphorbiaceae	Malpighiales
Shirakiopsis_indica						Euphorbiaceae	Malpighiales
Sumbaviopsis_albicans	KR530049	KR531495	KR533550	KR532593	KR532593	Euphorbiaceae	Malpighiales
Suregada_lanceolata						Euphorbiaceae	Malpighiales
Suregada_multiflora	LC736691	LC737086				Euphorbiaceae	Malpighiales
Triadica_sebifera	GU135136	GU135113	GU135303	MT444848	MT444848	Euphorbiaceae	Malpighiales
Trigonostemon_aurantiacus				MK876529	MK876529	Euphorbiaceae	Malpighiales
Trigonostemon_diplopetalus						Euphorbiaceae	Malpighiales
Trigonostemon_nemoralis						Euphorbiaceae	Malpighiales
Trigonostemon_viridissimus				MK876563	MK876563	Euphorbiaceae	Malpighiales
Tritaxis_beddomei				MK876509		Euphorbiaceae	Malpighiales
Tritaxis_glabella				MK876511	MK876511	Euphorbiaceae	Malpighiales

Vernicia_fordii	GU135261	GU135095	GU135432	MW84383 7	MW84383 7	Euphorbiaceae	Malpighiales
Vernicia_montana	KU243008	HQ427287	KP095651	MT040461	MT040461	Euphorbiaceae	Malpighiales
Cratoxylum_cochinchinense	AB925598	AB924972	MH052674	JN407444	JN407444	Hypericaceae	Malpighiales
Cratoxylum_formosum	MG838468	AB924785	MH052673	MZ674201	MZ674201	Hypericaceae	Malpighiales
Hiptage_candicans	HQ247526	HQ247314		MH718409	MH718409	Malpighiaceae	Malpighiales
Hiptage_parvifolia						Malpighiaceae	Malpighiales
Campylospermum_serratum	AB925353	AB233803	LC737638			Ochnaceae	Malpighiales
Ochna_integerrima	KY066473	AB924790		KF263177	KF263177	Ochnaceae	Malpighiales
Ochna_jabotapita						Ochnaceae	Malpighiales
Ochna_lanceolata						Ochnaceae	Malpighiales
Ochna_obtusata						Ochnaceae	Malpighiales
Chaetocarpus_coriaceus						Peraceae	Malpighiales
Chaetocarpus_ferrugineus						Peraceae	Malpighiales
Chaetocarpus_pubescens						Peraceae	Malpighiales
Actephila_excelsa	KJ594562	KJ708791		AM745918	AM745918	Phyllanthaceae	Malpighiales
Antidesma_acidum						Phyllanthaceae	Malpighiales
Antidesma_alexiteria		AY552416				Phyllanthaceae	Malpighiales
Antidesma_bunius	MN502805	MN502790	MN502799	KR531748	KR531748	Phyllanthaceae	Malpighiales
Antidesma_ghaesembilla	MN502808	AB924821	MN502802			Phyllanthaceae	Malpighiales
Antidesma_jayasuriyae						Phyllanthaceae	Malpighiales
Antidesma_montanum	KR528728	KR530364	KR534110	KR531754	KR531753	Phyllanthaceae	Malpighiales
Antidesma_nigricans						Phyllanthaceae	Malpighiales
Antidesma_puncticulatum	AB925855	AB925224				Phyllanthaceae	Malpighiales
Antidesma_pyrifolium						Phyllanthaceae	Malpighiales
Antidesma_roxburghii						Phyllanthaceae	Malpighiales
Antidesma_tetrandrum						Phyllanthaceae	Malpighiales
Antidesma_tomentosum	LC736074	LC737096	LC737644			Phyllanthaceae	Malpighiales

Aporosa_acuminata						Phyllanthaceae	Malpighiales
Aporosa_bourdillonii						Phyllanthaceae	Malpighiales
Aporosa_cardiosperma						Phyllanthaceae	Malpighiales
Aporosa_fusiformis						Phyllanthaceae	Malpighiales
Aporosa_indoacuminata						Phyllanthaceae	Malpighiales
Aporosa_lanceolata						Phyllanthaceae	Malpighiales
Aporosa_latifolia						Phyllanthaceae	Malpighiales
Aporosa_octandra						Phyllanthaceae	Malpighiales
Aporosa_villosa	KR528745	KR530378	KR533556	KR531764	KR531764	Phyllanthaceae	Malpighiales
Baccaurea_courtallensis						Phyllanthaceae	Malpighiales
Baccaurea_ramiflora	OK052743	KR530430	OM959600	ON514069	ON514069	Phyllanthaceae	Malpighiales
Bischofia_javanica	GU135211	GU135116	GU135378	KR531846	KR531846	Phyllanthaceae	Malpighiales
Breynia_retusa		AY936565	MH052663	AY936652	AY936652	Phyllanthaceae	Malpighiales
Bridelia_glauca	MG838510	MG838548	KR533564	KR531864	KR531864	Phyllanthaceae	Malpighiales
Bridelia_moonii						Phyllanthaceae	Malpighiales
Bridelia_stipularis		FJ439953		FJ439913	FJ439913	Phyllanthaceae	Malpighiales
Cleistanthus_ferrugineus						Phyllanthaceae	Malpighiales
Cleistanthus_malabaricus						Phyllanthaceae	Malpighiales
Cleistanthus_oblongifolius	AY663577	AY552424				Phyllanthaceae	Malpighiales
Cleistanthus_pallidus						Phyllanthaceae	Malpighiales
Cleistanthus_patulus						Phyllanthaceae	Malpighiales
Cleistanthus_robustus						Phyllanthaceae	Malpighiales
Flueggea_leucopyrus	KU564798	KU564575	KU564674	AY936654	AY936654	Phyllanthaceae	Malpighiales
Flueggea_virosa	MZ461581	JF270790	BK059210	MN915825	MN915825	Phyllanthaceae	Malpighiales
Glochidion_acuminatum		FJ235239		AY525678	AY525678	Phyllanthaceae	Malpighiales
Glochidion_andamanicum						Phyllanthaceae	Malpighiales
Glochidion_calocarpum	MG838512	KM894806	KC428526			Phyllanthaceae	Malpighiales
Glochidion_candolleanum						Phyllanthaceae	Malpighiales

Glochidion_coriaceum						Phyllanthaceae	Malpighiales
Glochidion_daltonii						Phyllanthaceae	Malpighiales
Glochidion_ellipticum	KR529376	MN916096	KR534119	MN915829	MN915829	Phyllanthaceae	Malpighiales
Glochidion_heyneanum						Phyllanthaceae	Malpighiales
Glochidion_hohenackeri						Phyllanthaceae	Malpighiales
Glochidion_khasicum						Phyllanthaceae	Malpighiales
Glochidion_lanceolarium	KR529380	KP093774	KR534118	KR532181	KR532181	Phyllanthaceae	Malpighiales
Glochidion_moonii						Phyllanthaceae	Malpighiales
Glochidion_multiloculare	MW33935 5	MW57397 5				Phyllanthaceae	Malpighiales
Glochidion_nemorale		AY936569		AY936658	AY936658	Phyllanthaceae	Malpighiales
Glochidion_stellatum						Phyllanthaceae	Malpighiales
Glochidion_thomsonii						Phyllanthaceae	Malpighiales
Glochidion_zeylanicum		FJ235237		KC913119	KC913119	Phyllanthaceae	Malpighiales
Margaritaria_cyanosperma		AY552435		AY936663	AY936663	Phyllanthaceae	Malpighiales
Margaritaria_indica		FJ235279				Phyllanthaceae	Malpighiales
Phyllanthus_acidus	MK309388	MN891769	GU598543	MN915836	MN915836	Phyllanthaceae	Malpighiales
Phyllanthus_cinereus				AY936682	AY936682	Phyllanthaceae	Malpighiales
Phyllanthus_columnaris		MN916283		MN915897	MN915897	Phyllanthaceae	Malpighiales
Phyllanthus_dealbatus						Phyllanthaceae	Malpighiales
Phyllanthus_emblica	AY765269	AY936594	GU598547	KT182081	KT182081	Phyllanthaceae	Malpighiales
Phyllanthus_lawii			GU598557	KX946200	KX946200	Phyllanthaceae	Malpighiales
Phyllanthus_racemosus				MN916035	MN916035	Phyllanthaceae	Malpighiales
Phyllanthus_sikkimensis		MN916296		MN916058	MN916058	Phyllanthaceae	Malpighiales
Mischodon_zeylanicus						Picrodendraceae	Malpighiales
Drypetes_andamanica						Putranjivaceae	Malpighiales
Drypetes_assamica						Putranjivaceae	Malpighiales
Drypetes_confertiflora						Putranjivaceae	Malpighiales

Drypetes_gardneri						Putranjivaceae	Malpighiales
Drypetes_helferi						Putranjivaceae	Malpighiales
Drypetes_indica	KR529135	KR530709	KR533573	KR532003	KR532003	Putranjivaceae	Malpighiales
Drypetes_longifolia	KJ594687					Putranjivaceae	Malpighiales
Drypetes_malabarica						Putranjivaceae	Malpighiales
Drypetes_oblongifolia						Putranjivaceae	Malpighiales
Drypetes_sepiaria						Putranjivaceae	Malpighiales
Drypetes_subsessilis						Putranjivaceae	Malpighiales
Drypetes_sumatrana						Putranjivaceae	Malpighiales
Drypetes_venusta						Putranjivaceae	Malpighiales
Drypetes_wightii						Putranjivaceae	Malpighiales
Putranjiva_roxburghii	JX856757	EF135530	JX856937	KC984656	KC984656	Putranjivaceae	Malpighiales
Putranjiva_zeylanica		AY552459				Putranjivaceae	Malpighiales
Bruguiera_cylindrica	KM255070	KM255085	MN117609	MH243993	MH243993	Rhizophoraceae	Malpighiales
Bruguiera_gymnorhiza	KM255071	KM255086	KJ559424	MH243970	MH243970	Rhizophoraceae	Malpighiales
Bruguiera_parviflora	MG970458	KJ784595	MN117590	HM366111	HM366111	Rhizophoraceae	Malpighiales
Bruguiera_sexangula	KX231357	KX231345	OK636600	MH243975	MH243975	Rhizophoraceae	Malpighiales
Carallia_brachiata	HQ415233	HQ415397	HQ415579	EF119072	MW04433 1	Rhizophoraceae	Malpighiales
Carallia_calycina						Rhizophoraceae	Malpighiales
Carallia_orophila						Rhizophoraceae	Malpighiales
Carallia_paucinervia						Rhizophoraceae	Malpighiales
Ceriops_decandra	OM037426	KJ784598	MN117599	MH243983	MH243983	Rhizophoraceae	Malpighiales
Ceriops_tagal	KM255072	KM255087	OK636653	MH243987	MH243987	Rhizophoraceae	Malpighiales
Kandelia_candel	KM255074	KX231346	MN117610	AJ305673	KY250444	Rhizophoraceae	Malpighiales
Rhizophora_apiculata	KM255076	KM255091	KJ417120	MH243995	MH243995	Rhizophoraceae	Malpighiales
Rhizophora_mucronata	MT130711	KM255092	MN117608	KX231338	KX231338	Rhizophoraceae	Malpighiales
Casearia_andamanica						Salicaceae	Malpighiales

Casearia_glomerata	KP094435	HQ415293	KP095682	FR990825	KP096052	Salicaceae	Malpighiales
Casearia_graveolens	MT933785	MW044092	MW047965		MW044333	Salicaceae	Malpighiales
Casearia_kurzii						Salicaceae	Malpighiales
Casearia_ovata						Salicaceae	Malpighiales
Casearia_thwaitesii						Salicaceae	Malpighiales
Casearia_tomentosa						Salicaceae	Malpighiales
Casearia_vareca						Salicaceae	Malpighiales
Casearia_wynadensis						Salicaceae	Malpighiales
Casearia_zeylanica						Salicaceae	Malpighiales
Dovyalis_hebecarpa	FJ788564	KC415377				Salicaceae	Malpighiales
Flacourtia_indica	GU135218	JF270789	KR534141	MH619737	MH619737	Salicaceae	Malpighiales
Flacourtia_inermis						Salicaceae	Malpighiales
Flacourtia_jangomas	MH667439	EF135541	MH667420	MH680705	MH680705	Salicaceae	Malpighiales
Flacourtia_latifolia						Salicaceae	Malpighiales
Flacourtia_montana	AF454736					Salicaceae	Malpighiales
Flacourtia_ramontchi						Salicaceae	Malpighiales
Homalium_ceylanicum	KR529433	MW044163	MW048007	KR532217	KR532217	Salicaceae	Malpighiales
Homalium_dewitii						Salicaceae	Malpighiales
Osmelia_gardneri						Salicaceae	Malpighiales
Populus_alba	MT931724	AM889739	JF429903	MT796553	MT796553	Salicaceae	Malpighiales
Populus_ciliata	MH574072	MH574153	KC485144	MH580327	MH580327	Salicaceae	Malpighiales
Populus_deltoides	HQ590218	MG220781	EU750499	MH580348	MH580348	Salicaceae	Malpighiales
Populus_euphratica	MT931726	JX495747	KC485148	JN162367	JN162367	Salicaceae	Malpighiales
Populus_macrocarpa						Salicaceae	Malpighiales
Salix_alba	KJ204399	MG220952	KM003357	ON033839	ON033839	Salicaceae	Malpighiales
Salix_babylonica	KC415327	MH659469	EU750539	ON033844	ON033844	Salicaceae	Malpighiales
Salix_blakii						Salicaceae	Malpighiales

Salix_caesia						Salicaceae	Malpighiales
Salix_denticulata						Salicaceae	Malpighiales
Salix_disperma						Salicaceae	Malpighiales
Salix_dolichostachya						Salicaceae	Malpighiales
Salix_excelsa				ON033850	ON033850	Salicaceae	Malpighiales
Salix_iliensis						Salicaceae	Malpighiales
Salix_pycnostachya				AB685299	AB685299	Salicaceae	Malpighiales
Salix_sericocarpa	KC415366	KC415422		KC415536	KC415536	Salicaceae	Malpighiales
Salix_sikkimensis						Salicaceae	Malpighiales
Salix_tetrasperma	MF695005	MF694875		KC415541	KC415541	Salicaceae	Malpighiales
Salix_viminalis	MH658636	MG220818	KM003548	ON074657	ON074657	Salicaceae	Malpighiales
Salix_wilhelmsiana				ON033862	ON033862	Salicaceae	Malpighiales
Scolopia_acuminata						Salicaceae	Malpighiales
Scolopia_crassipes						Salicaceae	Malpighiales
Scolopia_crenata						Salicaceae	Malpighiales
Scolopia_pusilla						Salicaceae	Malpighiales
Scolopia_spinosa	MG895930	MG910349				Salicaceae	Malpighiales
Xylosma_longifolia	MH113400	KP093376	KP095691	KP092986	KP092986	Salicaceae	Malpighiales
Rinorea_bengalensis	LC736604	LC737116	LC737657	FJ002919	FJ002919	Violaceae	Malpighiales
Rinorea_decora						Violaceae	Malpighiales
Bixa_orellana	KY973106	LC461942	LC461944	AB237790	AB237790	Bixaceae	Malvales
Cochlospermum_religiosum				KY670815	KY670815	Bixaceae	Malvales
Anthoshorea_assamica	MK030571	KJ709077	MW07419 4		MK051073	Dipterocarpaceae	Malvales
Anthoshorea_hulanidda						Dipterocarpaceae	Malvales
Anthoshorea_roxburghii	KY973250	MN641696		AY026687	AY026739	Dipterocarpaceae	Malvales
Cotylelobium_lewisianum						Dipterocarpaceae	Malvales
Cotylelobium_scabriusculum		AB246415				Dipterocarpaceae	Malvales

Dipterocarpus_alatus	KY973111	AB924964				Dipterocarpaceae	Malvales
Dipterocarpus_bourdillonii		MN641681				Dipterocarpaceae	Malvales
Dipterocarpus_costatus	MH113366	AB924773				Dipterocarpaceae	Malvales
Dipterocarpus_glandulosus		AB246477				Dipterocarpaceae	Malvales
Dipterocarpus_gracilis		MN641684				Dipterocarpaceae	Malvales
Dipterocarpus_grandiflorus						Dipterocarpaceae	Malvales
Dipterocarpus_hispidus		AB246476				Dipterocarpaceae	Malvales
Dipterocarpus_indicus		MN641682				Dipterocarpaceae	Malvales
Dipterocarpus_insignis		AB246475				Dipterocarpaceae	Malvales
Dipterocarpus_kerrii		MN641687				Dipterocarpaceae	Malvales
Dipterocarpus_retusus	MK030560	KJ611234				Dipterocarpaceae	Malvales
Dipterocarpus_turbinatus	MK030562	MK051080				Dipterocarpaceae	Malvales
Dipterocarpus_zeylanicus	KY973125	AB246474				Dipterocarpaceae	Malvales
Doona_affinis		AB246471				Dipterocarpaceae	Malvales
Doona_congestiflora		AB246463				Dipterocarpaceae	Malvales
Doona_cordifolia						Dipterocarpaceae	Malvales
Doona_disticha						Dipterocarpaceae	Malvales
Doona_gardneri		AB246468				Dipterocarpaceae	Malvales
Doona_macrophylla	LC736659		ON314810	MZ782485	MZ782485	Dipterocarpaceae	Malvales
Doona_ovalifolia	KX828980	AB246467	MT890652			Dipterocarpaceae	Malvales
Doona_trapezifolia		AB246466				Dipterocarpaceae	Malvales
Doona_venulosa	KX828978	AB246469	ON314808			Dipterocarpaceae	Malvales
Doona_zeylanica		AB246470				Dipterocarpaceae	Malvales
Hopea_brevipetiolaris	KX944295	KY972906	MT955621	AY026642	AY026700	Dipterocarpaceae	Malvales
Hopea_canarensis		MN641695				Dipterocarpaceae	Malvales
Hopea_cordifolia				AY026646	AY026704	Dipterocarpaceae	Malvales
Hopea_discolor		AB246458				Dipterocarpaceae	Malvales
Hopea_glabra		MN641689				Dipterocarpaceae	Malvales

Hopea_helferi		AB246457		MZ782432	MZ782432	Dipterocarpaceae	Malvales
Hopea_jucunda	KY973142	KY972946	MT955619			Dipterocarpaceae	Malvales
Hopea_modesta	KY973143	KY972947	MT955619			Dipterocarpaceae	Malvales
Hopea_odorata	KY973147	AB006385		MZ782439	MZ782439	Dipterocarpaceae	Malvales
Hopea_parviflora	JX163307	JX163312	JX502816			Dipterocarpaceae	Malvales
Hopea_ponga	JX163308	JX163313				Dipterocarpaceae	Malvales
Hopea_racophloea		MN641691	JX502817			Dipterocarpaceae	Malvales
Hopea_utilis	KY973105	MN641692				Dipterocarpaceae	Malvales
Shorea_dyeri		AB246446				Dipterocarpaceae	Malvales
Shorea_lissophylla		AB246447				Dipterocarpaceae	Malvales
Shorea_oblongifolia	KY973228	KY973038				Dipterocarpaceae	Malvales
Shorea_pallescens		AB246448				Dipterocarpaceae	Malvales
Shorea_robusta	KY654498	KY973059	JX856942	MZ782502	MZ782502	Dipterocarpaceae	Malvales
Shorea_stipularis		AB246454				Dipterocarpaceae	Malvales
Shorea_tumbuggaia	KF432036					Dipterocarpaceae	Malvales
Stemonoporus_acuminatus	KX828977	AB246422	MT955620			Dipterocarpaceae	Malvales
Stemonoporus_affinis						Dipterocarpaceae	Malvales
Stemonoporus_angustisepalus						Dipterocarpaceae	Malvales
Stemonoporus_bullatus		AB246426				Dipterocarpaceae	Malvales
Stemonoporus_canaliculatus		AB246425				Dipterocarpaceae	Malvales
Stemonoporus_ceylanicus		AB246428				Dipterocarpaceae	Malvales
Stemonoporus_cordifolius						Dipterocarpaceae	Malvales
Stemonoporus_elegans	KY973258	KY973068				Dipterocarpaceae	Malvales
Stemonoporus_gardneri						Dipterocarpaceae	Malvales
Stemonoporus_gilimalensis		AB246423				Dipterocarpaceae	Malvales
Stemonoporus_gracilis						Dipterocarpaceae	Malvales
Stemonoporus_kanneliyensis		AB246429				Dipterocarpaceae	Malvales
Stemonoporus_laevifolius						Dipterocarpaceae	Malvales

Stemonoporus_lanceolatus						Dipterocarpaceae	Malvales
Stemonoporus_lancifolius		AB246430				Dipterocarpaceae	Malvales
Stemonoporus_latisepalus						Dipterocarpaceae	Malvales
Stemonoporus_marginalis						Dipterocarpaceae	Malvales
Stemonoporus_moonii						Dipterocarpaceae	Malvales
Stemonoporus_nitidus						Dipterocarpaceae	Malvales
Stemonoporus_oblongifolius						Dipterocarpaceae	Malvales
Stemonoporus_petiolaris						Dipterocarpaceae	Malvales
Stemonoporus_reticulatus		AB246427				Dipterocarpaceae	Malvales
Stemonoporus_revolutus						Dipterocarpaceae	Malvales
Stemonoporus_rigidus						Dipterocarpaceae	Malvales
Stemonoporus_scalarinervis		AB246424				Dipterocarpaceae	Malvales
Stemonoporus_scaphifolius						Dipterocarpaceae	Malvales
Vateria_copallifera	KY973260	AB246431	KR338463			Dipterocarpaceae	Malvales
Vateria_indica		MN641697				Dipterocarpaceae	Malvales
Vateria_macrocarpa		MN641698				Dipterocarpaceae	Malvales
Vatica_affinis		AB246421				Dipterocarpaceae	Malvales
Vatica_lanceifolia						Dipterocarpaceae	Malvales
Vatica_obscura						Dipterocarpaceae	Malvales
Vatica_paludosa						Dipterocarpaceae	Malvales
Abroma_augustum		KR530344				Malvaceae	Malvales
Abutilon_indicum	OK634411	MN553681	OK636422	ON908414	ON908414	Malvaceae	Malvales
Adansonia_digitata	MT302823	JQ024933	JN400287	KF760382	KF760382	Malvaceae	Malvales
Ayenia_elegans						Malvaceae	Malvales
Azanza_lampas						Malvaceae	Malvales
Berrya_cordifolia						Malvaceae	Malvales
Bombax_ceiba	JX571785	JX495673		KM453163	HQ658377	Malvaceae	Malvales
Bombax_insigne						Malvaceae	Malvales

Ceiba_pentandra	GQ981696	MZ493728	HG963578	MW19250 9	MW19250 9	Malvaceae	Malvales
Ceiba_speciosa	MG833599	MG718934		HQ658388	HQ658388	Malvaceae	Malvales
Cola_nitida	MK090247		MK090041			Malvaceae	Malvales
Colona_floribunda	KR529032	KR530626	KR533628	MZ782382	MZ782382	Malvaceae	Malvales
Cullenia_ceylanica				AF233316	AF233316	Malvaceae	Malvales
Cullenia_exarillata						Malvaceae	Malvales
Cullenia_rosayroana				AF233318	AF233318	Malvaceae	Malvales
Dicellostyles_axillaris						Malvaceae	Malvales
Erinocarpus_nimmonii						Malvaceae	Malvales
Eriolaena_candollei				MT625272	MT625272	Malvaceae	Malvales
Eriolaena_hookeriana				MT625271	MT625271	Malvaceae	Malvales
Eriolaena_lushingtonii						Malvaceae	Malvales
Eriolaena_quinquelocularis						Malvaceae	Malvales
Firmiana_colorata	KR529340	MW36573 9	KR533995	KR532155	KR532155	Malvaceae	Malvales
Gossypium_arboreum	GU981720	JN201349				Malvaceae	Malvales
Grewia_asiatica	KY792575					Malvaceae	Malvales
Grewia_bracteata						Malvaceae	Malvales
Grewia_eriocarpa						Malvaceae	Malvales
Grewia_hirsuta	KF381135					Malvaceae	Malvales
Grewia_laevigata	MG895991	MG910399				Malvaceae	Malvales
Grewia_multiflora	MG895999					Malvaceae	Malvales
Grewia_orbiculata						Malvaceae	Malvales
Grewia_orientalis	GU981731					Malvaceae	Malvales
Grewia_polygama						Malvaceae	Malvales
Grewia_rothii						Malvaceae	Malvales
Grewia_sclerophylla						Malvaceae	Malvales

Grewia_serrulata	MW35544 3	MW57397 3	MW58955 2			Malvaceae	Malvales
Grewia_tiliifolia						Malvaceae	Malvales
Guazuma_ulmifolia	MG833600	JQ589300	GQ982236			Malvaceae	Malvales
Helicteres_isora	MF076997	MF076999		KX277729	KX277729	Malvaceae	Malvales
Heritiera_fomes	MG970494		MN117626			Malvaceae	Malvales
Heritiera_littoralis	AY082358	AY321181	KJ559427			Malvaceae	Malvales
Heritiera_macrophylla						Malvaceae	Malvales
Heritiera_papilio						Malvaceae	Malvales
Hibiscus_platanifolius						Malvaceae	Malvales
Hibiscus_tiliaceus	GU135284	AB233271				Malvaceae	Malvales
Hildegardia_populifolia		JX088700				Malvaceae	Malvales
Julostylis_angustifolia						Malvaceae	Malvales
Kleinhovia_hospita	FJ976142	HM488449				Malvaceae	Malvales
Kydia_calycina		MZ395022				Malvaceae	Malvales
Kydia_glabrescens						Malvaceae	Malvales
Leptonychia_caudata	MG896002	MG910407	LC737731			Malvaceae	Malvales
Mansonia_dipikae						Malvaceae	Malvales
Melochia_umbellata	JF738583					Malvaceae	Malvales
Microcos_calophylla						Malvaceae	Malvales
Microcos_paniculata	MW33936 0	MW57397 4	KU601572	AF460194	AF460194	Malvaceae	Malvales
Nayariophyton_zizyphifolium	JQ933373					Malvaceae	Malvales
Pityranthe_verrucosa						Malvaceae	Malvales
Pterocymbium_tinctorium						Malvaceae	Malvales
Pterospermum_acerifolium	MH113350	KJ510943		KC981072	KC981072	Malvaceae	Malvales
Pterospermum_aceroides						Malvaceae	Malvales
Pterospermum_diversifolium						Malvaceae	Malvales
Pterospermum_lanceifolium	HQ415058	HQ415246	KR533620	KR532519	KR532519	Malvaceae	Malvales

Pterospermum_reticulatum						Malvaceae	Malvales
Pterospermum_rubiginosum						Malvaceae	Malvales
Pterospermum_semisagittatum	MT933889	MW04420 0	MW04806 3	ON130105	ON130105	Malvaceae	Malvales
Pterospermum_suberifolium				ON130108	ON130108	Malvaceae	Malvales
Pterospermum_xylocarpum	KF381124					Malvaceae	Malvales
Pterygota_alata	JX856756			JX856494	JX856494	Malvaceae	Malvales
Pterygota_thwaitesii						Malvaceae	Malvales
Scaphium_scaphigerum	GQ436702		GQ435393	FJ980420	FJ980420	Malvaceae	Malvales
Sterculia_balanghas						Malvaceae	Malvales
Sterculia_colorata						Malvaceae	Malvales
Sterculia_guttata						Malvaceae	Malvales
Sterculia_lanceifolia	KR530029	KR531478	KR533987	MZ782511	MZ782511	Malvaceae	Malvales
Sterculia_lanceolata	MG896003	MW93437 1	KP095704	MZ782512	MZ782512	Malvaceae	Malvales
Sterculia_rubiginosa	MG895995	MG910404				Malvaceae	Malvales
Sterculia_urens	KJ751238			JX856498	JX856498	Malvaceae	Malvales
Sterculia_versicolor						Malvaceae	Malvales
Sterculia_villosa	MH113409					Malvaceae	Malvales
Sterculia_zeylanica						Malvaceae	Malvales
Theobroma_cacao	MZ350841	GQ982111	MF348333	JQ228377	JQ228377	Malvaceae	Malvales
Thespesia_populnea	KX397987	KX518648	OK637071	KX452503	KX452503	Malvaceae	Malvales
Muntingia_calabura	KJ082446	JQ589355	HG963807	AY328170	AY328170	Muntingiaceae	Malvales
Aquilaria_sinensis	MG896011	MG910414	OM939055	KX024774	KX024774	Thymelaeaceae	Malvales
Edgeworthia_gardneri	MG833727			MW25561 7	MW25561 7	Thymelaeaceae	Malvales
Eriosolena_involucrata						Thymelaeaceae	Malvales
Gyrinops_walla	MF443411	MF443404		MW52302 6	MW52302 6	Thymelaeaceae	Malvales
Lasiosiphon_glaucus	AM162511					Thymelaeaceae	Malvales

Phaleria_capitata	AJ297228					Thymelaeaceae	Malvales
Anogeissus_acuminata	MT933755	MW044183		AF334765	AF334765	Combretaceae	Myrtales
Anogeissus_latifolia	JF747605	MG737425		MT053092	MT053092	Combretaceae	Myrtales
Anogeissus_pendula	JF747604					Combretaceae	Myrtales
Anogeissus_sericea	JX856632					Combretaceae	Myrtales
Combretum_shivannae	AB925517	AB924896	DQ344101	DQ154051	DQ154051	Combretaceae	Myrtales
Lumnitzera_littorea	AF425718	KJ784604	OK636875	MT251446	MT251446	Combretaceae	Myrtales
Lumnitzera_racemosa	KX231359	KX231347	FJ381897	AF160467	AF160467	Combretaceae	Myrtales
Terminalia_anogeissiana		MG737425				Combretaceae	Myrtales
Terminalia_arjuna	MW355172	KT208367	FJ381893	MW547131	MW547131	Combretaceae	Myrtales
Terminalia_bellirica	OM777203	ON493165	LC438869	OP389072	OP389072	Combretaceae	Myrtales
Terminalia_bialata						Combretaceae	Myrtales
Terminalia_catappa	GU135220	JX518026	GU135388	ON908424	ON908424	Combretaceae	Myrtales
Terminalia_chebula	OM777204	OM964905	LC435437	OP363962	OP363962	Combretaceae	Myrtales
Terminalia_citrina	LC461875	LC461874	LC461876	LC110368	LC110368	Combretaceae	Myrtales
Terminalia_elliptica	KT208373	LC417437	LC110382	LC110375	LC110375	Combretaceae	Myrtales
Terminalia_myriocarpa	MT933908	MW044198	MW048080	FJ381779	FJ381779	Combretaceae	Myrtales
Terminalia_pallida				MF624633	MF624633	Combretaceae	Myrtales
Terminalia_paniculata	KT279742	KT279721	KP319009	OR073677	OR073677	Combretaceae	Myrtales
Terminalia_procera						Combretaceae	Myrtales
Terminalia_zeylanica						Combretaceae	Myrtales
Duabanga_grandiflora	GQ436376	GQ434087				Lythraceae	Myrtales
Lagerstroemia_hypoleuca						Lythraceae	Myrtales
Lagerstroemia_indica	KY627531	MH552355	MK895621	AF201689	AF201689	Lythraceae	Myrtales
Lagerstroemia_microcarpa	MW355176	MW355188	MW355200		MW355212	Lythraceae	Myrtales
Lagerstroemia_ovalifolia						Lythraceae	Myrtales

Lagerstroemia_parviflora	JX856721	MG737422		JX856468	JX856468	Lythraceae	Myrtales
Lagerstroemia_speciosa	MW355180	MW355192	MW355204	AF420218	AF420218	Lythraceae	Myrtales
Lawsonia_inermis	AY496863	MG946971	MG947092	FM887015	FM887015	Lythraceae	Myrtales
Pemphis_acidula	ON454075	ON981837	OK636907	MK304503	MK304503	Lythraceae	Myrtales
Punica_granatum	OL537077	JQ730680	JX463058	MT007597	MT007597	Lythraceae	Myrtales
Sonneratia_alba	KX231362	KX231350	OK637000	AH010519	AH010519	Lythraceae	Myrtales
Sonneratia_apetala	OK635211	KJ784616	OK637032	AH010520	AH010520	Lythraceae	Myrtales
Sonneratia_caseolaris	KX231361	KX231349	OK637041	AH010516	AH010516	Lythraceae	Myrtales
Sonneratia_griffithii						Lythraceae	Myrtales
Woodfordia_fruticosa	KX344652	KX344547	GQ435227	MW591549	MW591549	Lythraceae	Myrtales
Lijndenia_capitellata						Melastomataceae	Myrtales
Memecylon_angustifolium	OL409071			MK254757	MK254757	Melastomataceae	Myrtales
Memecylon_balakrishnanii				AY903364	AY903364	Melastomataceae	Myrtales
Memecylon_capitellatum	OL409072			MK254760	MK254760	Melastomataceae	Myrtales
Memecylon_cerasiforme						Melastomataceae	Myrtales
Memecylon_clarkeanum	OL409073			OL871457	OL871457	Melastomataceae	Myrtales
Memecylon_cuneatum						Melastomataceae	Myrtales
Memecylon_discolor						Melastomataceae	Myrtales
Memecylon_edule	MH143311	KU497644	KJ488998	KC523251	KC523251	Melastomataceae	Myrtales
Memecylon_ellipticum						Melastomataceae	Myrtales
Memecylon_fuscescens				KC523253	KC523253	Melastomataceae	Myrtales
Memecylon_giganteum						Melastomataceae	Myrtales
Memecylon_gracillimum						Melastomataceae	Myrtales
Memecylon_grande	OL409078			MK254767	MK254767	Melastomataceae	Myrtales
Memecylon_hookeri						Melastomataceae	Myrtales
Memecylon_lawsonii	OL409081			OL871466	OL871466	Melastomataceae	Myrtales
Memecylon_leucanthum				OL871467	OL871467	Melastomataceae	Myrtales

Memecylon_lushingtonii				OL871468	OL871468	Melastomataceae	Myrtales
Memecylon_macrocarpum						Melastomataceae	Myrtales
Memecylon_orbiculare						Melastomataceae	Myrtales
Memecylon_ovatum	AB925756	AB924697		KC523256	KC523256	Melastomataceae	Myrtales
Memecylon_ovoideum						Melastomataceae	Myrtales
Memecylon_parvifolium	OL409082			MK254772	MK254772	Melastomataceae	Myrtales
Memecylon_phyllanthifolium						Melastomataceae	Myrtales
Memecylon_procerum	OL409084			MK254774	MK254774	Melastomataceae	Myrtales
Memecylon_randerianum	OL409085			OL871471	OL871471	Melastomataceae	Myrtales
Memecylon_revolutum						Melastomataceae	Myrtales
Memecylon_rivulare	OL409086			OL871472	OL871472	Melastomataceae	Myrtales
Memecylon_rostratum				KC523260	KC523260	Melastomataceae	Myrtales
Memecylon_royenii	OL409087			MK254777	MK254777	Melastomataceae	Myrtales
Memecylon_scutellatum	AB925773	AB924788		KC523265	KC523265	Melastomataceae	Myrtales
Memecylon_sessile	OL409089			OL871473	OL871473	Melastomataceae	Myrtales
Memecylon_sisparense	OL409091			OL871474	OL871474	Melastomataceae	Myrtales
Memecylon_sylvaticum						Melastomataceae	Myrtales
Memecylon_talbotianum	KM871216	KF895408	KJ488996	OL871476	OL871476	Melastomataceae	Myrtales
Memecylon_terminale	OL409094			OL871477	OL871477	Melastomataceae	Myrtales
Memecylon_umbellatum	KM871205	KF895406	KJ488997	KC523266	KC523266	Melastomataceae	Myrtales
Memecylon_urceolatum						Melastomataceae	Myrtales
Memecylon_varians						Melastomataceae	Myrtales
Memecylon_wightii	KF003022	KF895405	KJ488994	KC137273	KC137273	Melastomataceae	Myrtales
Campomanesia_xanthocarpa	MG718417	MG718927				Myrtaceae	Myrtales
Corymbia_citriodora		KM065329	KT632082	KM065056	KM065056	Myrtaceae	Myrtales
Corymbia_maculata		KT632669	HQ287702	AF058461	AF058461	Myrtaceae	Myrtales
Corymbia_torelliana	MW17813 6	KT632681		GQ366373	GQ366373	Myrtaceae	Myrtales

Decaspermum_parviflorum	MW85415 1	MW85411 8	KR533024	MW85418 8	MW85418 8	Myrtaceae	Myrtales
Eucalyptus_camaldulensis	MW17817 0	HQ995676	AF190380	HM596038	HM596038	Myrtaceae	Myrtales
Eucalyptus_globulus	EF590530	AY521535	EF590698	HM596049	HM596049	Myrtaceae	Myrtales
Eucalyptus_grandis	AB537496			HM596050	HM596050	Myrtaceae	Myrtales
Eucalyptus_microcorys		KM065080		KM064902	KM064902	Myrtaceae	Myrtales
Eucalyptus_obliqua	MF804321	MF804326	JX187458	KM064804	KM064804	Myrtaceae	Myrtales
Eucalyptus_pilularis	MW17817 6	KM065279	KT632473	KM065035	KM065035	Myrtaceae	Myrtales
Eucalyptus_robusta			KY197897			Myrtaceae	Myrtales
Eucalyptus_tereticornis	MW17814 3	KT633164	JX856885	AF390482	AF390482	Myrtaceae	Myrtales
Eugenia_calcadensis	KU301781	KU301780		KU301782	KU301782	Myrtaceae	Myrtales
Eugenia_fulva						Myrtaceae	Myrtales
Eugenia_indica						Myrtaceae	Myrtales
Eugenia_mabaeoides				OL840045	OL840045	Myrtaceae	Myrtales
Eugenia_mooniana				OL840048		Myrtaceae	Myrtales
Eugenia_rivulorum						Myrtaceae	Myrtales
Eugenia_roxburghii						Myrtaceae	Myrtales
Eugenia_rufofulva						Myrtaceae	Myrtales
Eugenia_terpnophylla						Myrtaceae	Myrtales
Psidium_guajava	OL537072	JQ024987	MK041282	AY781099	KX021125	Myrtaceae	Myrtales
Psidium_guineense	MT708806	JQ588515	HG963888	MZ710605	MZ710605	Myrtaceae	Myrtales
Rhodomyrtus_tomentosa	GU135163	GU134999	OK052855	MN295367	MN295367	Myrtaceae	Myrtales
Syzygium_alternifolium						Myrtaceae	Myrtales
Syzygium_alubo						Myrtaceae	Myrtales
Syzygium_amphoraecarpus						Myrtaceae	Myrtales
Syzygium_andamanicum						Myrtaceae	Myrtales
Syzygium_aqueum	MH826764	DQ088559	MN119682	MN104136	MN104136	Myrtaceae	Myrtales

Syzygium_aromaticum	MH101978	MH101984	MH101988	OP563743	OP563743	Myrtaceae	Myrtales
Syzygium_assimile						Myrtaceae	Myrtales
Syzygium_balsameum	KU301786	KR531523	KR533008	KR532621	KR532621	Myrtaceae	Myrtales
Syzygium_caryophyllatum	KU301786	KU301785		KU301787	KU301787	Myrtaceae	Myrtales
Syzygium_claviflorum	MT864768	MW85409 1		MW85420 4	MW85420 4	Myrtaceae	Myrtales
Syzygium_cordifolium						Myrtaceae	Myrtales
Syzygium_cumini	MN580501	JX495762	GU135395	JX856510	JX856510	Myrtaceae	Myrtales
Syzygium_cylindricum						Myrtaceae	Myrtales
Syzygium_densiflorum		KY041807				Myrtaceae	Myrtales
Syzygium_diospyrifolium				JF682813	JF682813	Myrtaceae	Myrtales
Syzygium_formosum	LC736271					Myrtaceae	Myrtales
Syzygium_gardneri		KT907477		KT970719	KT970719	Myrtaceae	Myrtales
Syzygium_grande	MT864756	MT864796		MW85416 7	MW85416 7	Myrtaceae	Myrtales
Syzygium_hemisphericum		AB925274		KT982669	KT982669	Myrtaceae	Myrtales
Syzygium_jambos	GU135219	GU135056	AB331292	MK397437	MK397437	Myrtaceae	Myrtales
Syzygium_kurzii						Myrtaceae	Myrtales
Syzygium_lanceolatum		KT936452		KT982670	KT982670	Myrtaceae	Myrtales
Syzygium_lewisii						Myrtaceae	Myrtales
Syzygium_makul						Myrtaceae	Myrtales
Syzygium_malabaricum						Myrtaceae	Myrtales
Syzygium_malaccense	OK052794	KU587486	OK052862	MN295369	MN295369	Myrtaceae	Myrtales
Syzygium_manii						Myrtaceae	Myrtales
Syzygium_micranthum						Myrtaceae	Myrtales
Syzygium_montanum						Myrtaceae	Myrtales
Syzygium_montis-adam						Myrtaceae	Myrtales
Syzygium_mundagam						Myrtaceae	Myrtales
Syzygium_munroi						Myrtaceae	Myrtales

Syzygium_myhendrae						Myrtaceae	Myrtales
Syzygium_neesianum						Myrtaceae	Myrtales
Syzygium_nervosum	KP094156	KP093249	KP095746	MG730894	MG730894	Myrtaceae	Myrtales
Syzygium_oblatum	MH113353	MW85408 4				Myrtaceae	Myrtales
Syzygium_oliganthum						Myrtaceae	Myrtales
Syzygium_polyanthum	LC736265	LC737237	MH070010	MW85421 8	MW85421 8	Myrtaceae	Myrtales
Syzygium_potamicum						Myrtaceae	Myrtales
Syzygium_praecox						Myrtaceae	Myrtales
Syzygium_ramosissimum						Myrtaceae	Myrtales
Syzygium_revolutum						Myrtaceae	Myrtales
Syzygium_rotundifolium						Myrtaceae	Myrtales
Syzygium_rubicundum		KT936458		KT982675		Myrtaceae	Myrtales
Syzygium_salicifolium						Myrtaceae	Myrtales
Syzygium_samarangense	KP088873	MW85411 9	MN295187	OP897499	OP897499	Myrtaceae	Myrtales
Syzygium_sclerophyllum						Myrtaceae	Myrtales
Syzygium_spathulatum						Myrtaceae	Myrtales
Syzygium_syzygioides	AB925913	AB924771				Myrtaceae	Myrtales
Syzygium_turbinatum						Myrtaceae	Myrtales
Syzygium_umbrosum						Myrtaceae	Myrtales
Syzygium_venosum	JQ933495					Myrtaceae	Myrtales
Syzygium_zeylanicum	OK052796	MH332538	OK052864	EF026650	EF026650	Myrtaceae	Myrtales
Axinandra_zeylanica	AY078157					Penaeaceae	Myrtales
Crypteronia_paniculata	KX527044	AB924733	KR533025			Penaeaceae	Myrtales
Ellipanthus_calophyllus						Connaraceae	Oxalidales
Ellipanthus_unifoliolatus						Connaraceae	Oxalidales
Elaeocarpus_acuminatus						Elaeocarpaceae	Oxalidales

Elaeocarpus_amoenus						Elaeocarpaceae	Oxalidales
Elaeocarpus_angustifolius	KR529188	KR530755	KY565483	KJ675646	KJ675646	Elaeocarpaceae	Oxalidales
Elaeocarpus_aristatus						Elaeocarpaceae	Oxalidales
Elaeocarpus_coriaceus	KM895618	KM894521	KY565501	KJ675661	KJ675661	Elaeocarpaceae	Oxalidales
Elaeocarpus_floribundus	MG934789	MG934849	KY565491	KX365744	KX365744	Elaeocarpaceae	Oxalidales
Elaeocarpus_gaussenii						Elaeocarpaceae	Oxalidales
Elaeocarpus_glandulifer						Elaeocarpaceae	Oxalidales
Elaeocarpus_glandulosus						Elaeocarpaceae	Oxalidales
Elaeocarpus_hedyosmus						Elaeocarpaceae	Oxalidales
Elaeocarpus_lanceifolius						Elaeocarpaceae	Oxalidales
Elaeocarpus_macrocerus						Elaeocarpaceae	Oxalidales
Elaeocarpus_montanus						Elaeocarpaceae	Oxalidales
Elaeocarpus_munroi						Elaeocarpaceae	Oxalidales
Elaeocarpus_petiolatus	MG934786	AB925049	KR532907			Elaeocarpaceae	Oxalidales
Elaeocarpus_prunifolius						Elaeocarpaceae	Oxalidales
Elaeocarpus_recurvatus						Elaeocarpaceae	Oxalidales
Elaeocarpus_robustus						Elaeocarpaceae	Oxalidales
Elaeocarpus_rugosus	MT933815	MW04419 2	KR532912			Elaeocarpaceae	Oxalidales
Elaeocarpus_serratus	MG934787		MN119526			Elaeocarpaceae	Oxalidales
Elaeocarpus_sikkimensis	KR529220	KR530773	KR532904			Elaeocarpaceae	Oxalidales
Elaeocarpus_subvillosus						Elaeocarpaceae	Oxalidales
Elaeocarpus_taprobanicus						Elaeocarpaceae	Oxalidales
Elaeocarpus_tectorius				MW21972 8	MW21972 8	Elaeocarpaceae	Oxalidales
Elaeocarpus_tuberculatus	KY884998					Elaeocarpaceae	Oxalidales
Elaeocarpus_variabilis						Elaeocarpaceae	Oxalidales
Elaeocarpus_varunua	KR529232	KR530777	KR532897			Elaeocarpaceae	Oxalidales
Sloanea_dasycarpa	KR530019	KR531469	KR532882			Elaeocarpaceae	Oxalidales

Sloanea_sterculiacea						Elaeocarpaceae	Oxalidales
Averrhoa_carambola	OL536763	OL689887	MF348551	KU569491	KU569491	Oxalidaceae	Oxalidales
Cupressus_torulosa	AY988257	LC404787	LC405749	AY988393	AY988393	Cupressaceae	Pinales
Juniperus_recurva	MH069535			GQ118647	GQ118647	Cupressaceae	Pinales
Juniperus_seravschanica				OP445583	OP445583	Cupressaceae	Pinales
Platycladus_orientalis	JX887635	MH658957	JQ512354	MH703388	MH703388	Cupressaceae	Pinales
Abies_densa	JF940560	JF952927	JN043655			Pinaceae	Pinales
Abies_pindrow		MH230831		EU196130	EU196130	Pinaceae	Pinales
Abies_spectabilis	JF940608	JF952975	JN043703	JF416978	JF416978	Pinaceae	Pinales
Cedrus_deodara	MF694683	KP089000	FJ493293	DQ975357	GQ865724	Pinaceae	Pinales
Larix_griffithii	MF786487			AF041349	AF041349	Pinaceae	Pinales
Picea_smithiana	JF943380	MW019299	JN046305			Pinaceae	Pinales
Picea_spinulosa	JF943384	MW019294	JN046309			Pinaceae	Pinales
Pinus_gerardiana	AY115762	AM883982		AF036993	AF036993	Pinaceae	Pinales
Pinus_kesiya	JN039276	KT247646	MW452500	AF037004	AF037004	Pinaceae	Pinales
Pinus_roxburghii	AB064339	AB084495		AF037021	AF037021	Pinaceae	Pinales
Pinus_wallichiana	MF694757	MW358721	MW358875	AF036991	AF036991	Pinaceae	Pinales
Tsuga_dumosa	MH116488	MH116938	MF785848	EF395515	MH117823	Pinaceae	Pinales
Nageia_wallichiana	HM593616	JN657257	KR855711	KR855705	KR855705	Podocarpaceae	Pinales
Podocarpus_neriifolius	MT933873	KF713737	MW048089	KR674120	KR674120	Podocarpaceae	Pinales
Cephalotaxus_griffithii	GQ463548		EF660669		GQ865719	Taxaceae	Pinales
Taxus_baccata	MH267346	MH267493	FJ493316	MH267409	MH267409	Taxaceae	Pinales
Taxus_wallichiana	MH267407	MH267555	MH267344	MH267490	MH267490	Taxaceae	Pinales
Aristolochia_platanifolia						Aristolochiaceae	Piperales
Bambusa_balcooa	MN867475	MT271291	MH240960	MH921473	MH921473	Poaceae	Poales

Bambusa_bambos	MW19714 7	KT226117	MH240932	MH921479	MH921479	Poaceae	Poales
Bambusa_nutans	MT294685	MT271295	MH240922	FJ410315	FJ410315	Poaceae	Poales
Bambusa_pallida	MT294679	MT271294	MH240943			Poaceae	Poales
Bambusa_tulda	KC123349	MN043620	MN052694	MH921475	MH921475	Poaceae	Poales
Bambusa_vulgaris	JQ734486	MT271292	MH240977	MH921466	MH921466	Poaceae	Poales
Cephalostachyum_capitatum	KX034230					Poaceae	Poales
Chimonobambusa_callosa						Poaceae	Poales
Drepanostachyum_falcatum	MT294673	MT271259		AF494456	AF494456	Poaceae	Poales
Gigantochloa_albociliata	MH522398	KT226188	GU063127	MH921474	MH921474	Poaceae	Poales
Pseudobambusa_schizostachyoide s						Poaceae	Poales
Pseudostachyum_polymorphum	OM574876	KT226222	KR534162	DQ131522	DQ131522	Poaceae	Poales
Yushania_maling	AJ746277					Poaceae	Poales
Grevillea_robusta	KM895690	EU169631	KM895122	DQ499132	DQ499132	Proteaceae	Proteales
Helicia_ceylanica						Proteaceae	Proteales
Helicia_excelsa						Proteaceae	Proteales
Helicia_nilagirica	MT933965	MW04398 3	MW04779 8	MW04439 0	MW04439 0	Proteaceae	Proteales
Helicia_robusta	MH141080					Proteaceae	Proteales
Meliosma_dilleniifolia	KP900627	MG969037	KP900568	KP900377	KP900377	Sabiaceae	Proteales
Meliosma_lanceolata	KJ594801	MG969042				Sabiaceae	Proteales
Meliosma_pinnata	KP900639	MG969046	MH826488	KP900406	KP900406	Sabiaceae	Proteales
Meliosma_simplicifolia	MG969109	MG969050				Sabiaceae	Proteales
Meliosma_thomsonii						Sabiaceae	Proteales
Berberis_napaulensis	KR075659		KX549374	AH013541	AH013541	Berberidaceae	Ranunculales
Cocculus_laurifolius	LC693590	EF143859	OK420618		KM092304	Menispermaceae	Ranunculales
Aphananthe_cuspidata	KR528741	KR530374	KR086760	KR086742	KR086742	Cannabaceae	Rosales
Celtis_eriocarpa						Cannabaceae	Rosales

Celtis_philippensis	KU568004	KX146233	MN395148	KR531901	KR531900	Cannabaceae	Rosales
Celtis_tetrandra	OK562550	JF317420	MN395141	MN381787	MN381787	Cannabaceae	Rosales
Celtis_timorensis	OK562524	KR530558	MN395128	MN381740	MN381740	Cannabaceae	Rosales
Gironniera_parvifolia						Cannabaceae	Rosales
Trema_cannabina	KP094271	KP093357	KP095798	KP093176	KP093176	Cannabaceae	Rosales
Trema_orientale	MZ054585	OM935815	OK420583	AY488732	AY488732	Cannabaceae	Rosales
Trema_politoria	MZ054572		MZ054533	MZ168598	MZ168598	Cannabaceae	Rosales
Trema_tomentosum	MZ054584	MG648346	MZ054547	MK911054	MK911054	Cannabaceae	Rosales
Elaeagnus_angustifolia	KX678726	KX677315		MT227738	MT227738	Elaeagnaceae	Rosales
Elaeagnus_caudata					MW21972 7	Elaeagnaceae	Rosales
Elaeagnus_infundibularis						Elaeagnaceae	Rosales
Elaeagnus_latifolia						Elaeagnaceae	Rosales
Elaeagnus_umbellata	HQ590074	MK520029	HQ596679	MT227733	MT227733	Elaeagnaceae	Rosales
Hippophae_rhamnoides						Elaeagnaceae	Rosales
Hippophae_salicifolia	JF941949	JF954058		AF440246	AF440246	Elaeagnaceae	Rosales
Allaeanthus_zeylanicus						Moraceae	Rosales
Antiaris_toxicaria	KF496469	KR530358	GQ435322	MN402509	MN402508	Moraceae	Rosales
Artocarpus_altilis	OK052734	KJ767846	MN082753	MT012131	MT012131	Moraceae	Rosales
Artocarpus_chama	MH358036	MH357975	KU856005	KU855493	KU855493	Moraceae	Rosales
Artocarpus_gomezianus	MN082725	KU856356	KU856022	MN086223	MN086223	Moraceae	Rosales
Artocarpus_heterophyllus	MG873185	KU856360	MN082755	MG847193	MG847193	Moraceae	Rosales
Artocarpus_hirsutus	KU856241	KU856362	KU856028	FJ917016	FJ917016	Moraceae	Rosales
Artocarpus_lacucha						Moraceae	Rosales
Artocarpus_nobilis						Moraceae	Rosales
Broussonetia_papyrifera	KJ767832	KJ767853	KP095810	HM623778	HM623778	Moraceae	Rosales
Ficus_altissima	GU135133	GU134973	GU135300	JQ774023	JQ774023	Moraceae	Rosales
Ficus_ampelos	JF738458	JQ773505	JQ774149	JF976317	JF976317	Moraceae	Rosales

Ficus_amplissima			MT445803	MN883368	MN883368	Moraceae	Rosales
Ficus_arnottiana			MT445816			Moraceae	Rosales
Ficus_auriculata	JQ773647	KR530806		MG897208	MG897207	Moraceae	Rosales
Ficus_beddomei					MF288770	Moraceae	Rosales
Ficus_benghalensis	KY368657	MT325945	AB985788	KT884637	KY700345	Moraceae	Rosales
Ficus_benjamina	AF500350	JX495711	MT445817	JQ773842	JQ773842	Moraceae	Rosales
Ficus_callosa	JQ773669	JQ773522	JX185798	ON033151	ON033151	Moraceae	Rosales
Ficus_carica	OL536903	AY257530	GQ395412	EU091645	EU091645	Moraceae	Rosales
Ficus_caulocarpa	JQ773663	JQ773517	MT445799	AB485822	AB485822	Moraceae	Rosales
Ficus_chartacea	LC736309	LC737281		AY730126	AY730126	Moraceae	Rosales
Ficus_costata						Moraceae	Rosales
Ficus_crassiramea						Moraceae	Rosales
Ficus_curtipes	JQ773826	JQ773518		JQ773855	JQ773855	Moraceae	Rosales
Ficus_cyrtophylla	JF941526	JF953730		EU091664	EU091664	Moraceae	Rosales
Ficus_dalhousiae			MF288777		KU365055	Moraceae	Rosales
Ficus_drupacea	JX571831	JX495713	JQ774217	JQ774024	MN922244	Moraceae	Rosales
Ficus_elastica	MT338534	KU587480	KT032191	ON525756	ON525756	Moraceae	Rosales
Ficus_erecta	JQ773676	OP289527	LC647326	KY388606	KY388606	Moraceae	Rosales
Ficus_exasperata						Moraceae	Rosales
Ficus_fergusonii						Moraceae	Rosales
Ficus_fistulosa	OK562558	MH357997	KP095819	JQ773876	JQ773876	Moraceae	Rosales
Ficus_fulva	KR529289	MH115900		KX055695	KX055695	Moraceae	Rosales
Ficus_geniculata	KP752393					Moraceae	Rosales
Ficus_glaberrima	JF941535	JF953734	JF941535	EU091588	EU091588	Moraceae	Rosales
Ficus_hookeriana				JN117636	JN117636	Moraceae	Rosales
Ficus_ischnopoda	JF941547	JF953741	HQ890835	KY388593	KY388593	Moraceae	Rosales
Ficus_lacor	KR529306	KR530839		AY730062	AY730062	Moraceae	Rosales
Ficus_lamponga						Moraceae	Rosales

Ficus_magnoliifolia				EU091569	EU091569	Moraceae	Rosales
Ficus_microcarpa	KP094631	AB925064	KP095829	ON514265	ON514265	Moraceae	Rosales
Ficus_neriifolia				KY388573	KY388573	Moraceae	Rosales
Ficus_nervosa	HQ415156	HQ415329	HQ415505	EU091570	EU091570	Moraceae	Rosales
Ficus_palmata	MF694717	MF694850	LC375807	LC375804	LC375804	Moraceae	Rosales
Ficus_prostrata				KP325593	KP325593	Moraceae	Rosales
Ficus_pubilimba				EU091593	EU091593	Moraceae	Rosales
Ficus_pumila						Moraceae	Rosales
Ficus_racemosa	JF941551	KC508603	GU935097	MG897263	MG897263	Moraceae	Rosales
Ficus_religiosa	MN102666	GU935050	MT445789	KJ845982	KJ845982	Moraceae	Rosales
Ficus_retusa	MT338537	GU935042		HM368207	HM368207	Moraceae	Rosales
Ficus_rigida						Moraceae	Rosales
Ficus_rumphii	MN102665	KC508605	MT445814	KJ845994	KJ845994	Moraceae	Rosales
Ficus_semicordata	MK432999	JF953744	MG981410	JQ773985	JQ773985	Moraceae	Rosales
Ficus_simplicissima			KX055813	KY388565	KY388565	Moraceae	Rosales
Ficus_subincisa	JQ773775	JQ773641		KY388600	KY388600	Moraceae	Rosales
Ficus_subulata	JQ773782	JQ773598		JX185790	JX185790	Moraceae	Rosales
Ficus_talbotii				MK472767	MK472767	Moraceae	Rosales
Ficus_terminalia						Moraceae	Rosales
Ficus_tinctoria	JF941560	JF953747	MT445832	AF165413	AF165413	Moraceae	Rosales
Ficus_trimenii						Moraceae	Rosales
Ficus_tsjakela				KJ845951	KJ845951	Moraceae	Rosales
Ficus_variegata	FJ976133	MH115904	JQ774302	AB485876	AB485876	Moraceae	Rosales
Ficus_virens	JQ773809	JQ773627	KP095847	KP093122	KP093122	Moraceae	Rosales
Morus_alba	OL434826	OL434948	KU306843	AB604289	AB604289	Moraceae	Rosales
Morus_indica	GU145584	GU145570	KF720298	KF784890	KF784890	Moraceae	Rosales
Morus_macroura	GU145581	GU145567	KR532836	HM747170	HM747170	Moraceae	Rosales
Morus_serrata	GU145577	GU145563		HM747176	HM747176	Moraceae	Rosales

Streblus_asper	LC456348	LC456347	LC456349	KT002557	KT002557	Moraceae	Rosales
Taxotrophis_taxoides				KT002558	KT002558	Moraceae	Rosales
Taxotrophis_zeylanica						Moraceae	Rosales
Colubrina_asiatica	GU135186	LC604270	GU135352	MH768307	MH768307	Rhamnaceae	Rosales
Hovenia_dulcis	LC693667	JX495724				Rhamnaceae	Rosales
Rhamnus_dahuricus						Rhamnaceae	Rosales
Rhamnus_nepalensis						Rhamnaceae	Rosales
Rhamnus_triquetra						Rhamnaceae	Rosales
Rhamnus_virgata			KY193750	KY193707	KY193707	Rhamnaceae	Rosales
Rhamnus_wightii						Rhamnaceae	Rosales
Sageretia_filiformis						Rhamnaceae	Rosales
Scutia_myrtina	MK557871	KR734967	MK000509	KR083088	KR083088	Rhamnaceae	Rosales
Ziziphus_glabrata						Rhamnaceae	Rosales
Ziziphus_incurva			EU075111	EU075096	EU075096	Rhamnaceae	Rosales
Ziziphus_jujuba	MF694811	MF694894	MG947116	DQ146578	DQ146578	Rhamnaceae	Rosales
Ziziphus_mauritiana	HQ325598	JX518013	EU075110	DQ146589	DQ146589	Rhamnaceae	Rosales
Ziziphus_nummularia	MF694814	MF694895	JX856981	KF815499	KF815499	Rhamnaceae	Rosales
Ziziphus_oenopolia	PP352605	MW92721 0	MW92721 4	DQ146598	DQ146598	Rhamnaceae	Rosales
Ziziphus_oxyphylla						Rhamnaceae	Rosales
Ziziphus_rugosa	HQ325599	MG737441	EU075105	EU075097	EU075097	Rhamnaceae	Rosales
Ziziphus_truncata						Rhamnaceae	Rosales
Cotoneaster_affinis						Rosaceae	Rosales
Cotoneaster_racemiflorus	JQ391290	JQ390964	JQ392535	FJ796947	FJ796947	Rosaceae	Rosales
Dasiphora_fruticosa	JF941369	JF953640	JN044379	MT924066		Rosaceae	Rosales
Docynia_indica	JQ391337	JQ391000				Rosaceae	Rosales
Griffitharia_lanata						Rosaceae	Rosales
Griffitharia_vestita						Rosaceae	Rosales

Malus_baccata	MH657994	MG221148	MG703846	KF186594	KF186594	Rosaceae	Rosales
Malus_domestica	MH536583	AM042561	FJ395455	AB636343	AB636343	Rosaceae	Rosales
Photinia_integrifolia	MN205224	MN492808	GQ305345	MN577913	MN577913	Rosaceae	Rosales
Prinsepia_utilis	MF786496	MF786801	MK442057	MN721335	MN721335	Rosaceae	Rosales
Prunus_arborea	LC736575	LC737287	LC737808	MK106689	MK106689	Rosaceae	Rosales
Prunus_armeniaca	JF943741	JF955813	KP089800	MW843830	MW843830	Rosaceae	Rosales
Prunus_bracteopadus						Rosaceae	Rosales
Prunus_buergeriana	LC689761	LC679520	OK420752	AY052502	AY052502	Rosaceae	Rosales
Prunus_cerasoides	MH113369	MW044040	AB254636	JQ034160	MW044472	Rosaceae	Rosales
Prunus_ceylanica	HQ235417	HQ235133	HQ188760	MK106692	MK106692	Rosaceae	Rosales
Prunus_cornuta				GQ179667	GQ179667	Rosaceae	Rosales
Prunus_domestica	MW497161	MW369027	MK578165	MT811814	MT811814	Rosaceae	Rosales
Prunus_jenkinsii	KR529517					Rosaceae	Rosales
Prunus_persica	JF943754	JF955828	KP095862	DQ006273	DQ006273	Rosaceae	Rosales
Prunus_phaeosticta	HQ235517	HQ235233	KP095868	EU669095	EU669095	Rosaceae	Rosales
Prunus_walkeri						Rosaceae	Rosales
Pyracantha_crenulata	MZ097517	MH658899	JN046708		MH703351	Rosaceae	Rosales
Pyrus_communis	OQ269466	MH551872	JQ392161	MT823203	MT823203	Rosaceae	Rosales
Pyrus_pashia	KT808477	KT808470	JQ390753	JQ392477	JQ392477	Rosaceae	Rosales
Pyrus_pyrifolia	JQ391390	GU363774	KF657740	KJ011897	KJ011897	Rosaceae	Rosales
Rhaphiolepis_angustissima	MT741082					Rosaceae	Rosales
Rhaphiolepis_bengalensis	MT741080	MW044244				Rosaceae	Rosales
Eriobotrya_japonica	U06800	JX517887	JF733777	MN577911	MN577911	Rosaceae	Rosales
Rhaphiolepis_elliptica	MT741066					Rosaceae	Rosales
Rhaphiolepis_petiolata				MH246949	MH246949	Rosaceae	Rosales
Rosa_clinophylla		AB457823		MK533411	MK533411	Rosaceae	Rosales

Rubus_birmanicus						Rosaceae	Rosales
Sorbaria_tomentosa						Rosaceae	Rosales
Sorbus_cuspidata				KT345409	KT345409	Rosaceae	Rosales
Sorbus_wallichii						Rosaceae	Rosales
Holoptelea_integrifolia	KF381141	KC539622	JX856899	KC539588	KC539588	Ulmaceae	Rosales
Ulmus_lanceifolia	KR530188	KR531619	KR533054	MT117127	MT117127	Ulmaceae	Rosales
Ulmus_villosa						Ulmaceae	Rosales
Ulmus_wallichiana						Ulmaceae	Rosales
Boehmeria_caudata	MG718411	MG718921	HG963861			Urticaceae	Rosales
Boehmeria_depauperata	KR528862	KR530479	KR534051	KR531851	KR531851	Urticaceae	Rosales
Boehmeria_penduliflora	KR528864	KR530481	KR534044	KM586410	KM586410	Urticaceae	Rosales
Debregeasia_longifolia	KR529093	KR530679	KR534042	KF137832	KF137832	Urticaceae	Rosales
Debregeasia_saeneb	KF138144	KF137977	MN395179	MN381763	MN381763	Urticaceae	Rosales
Dendrocnide_sinuata	MH034475	KF137981		KF137839	KF137839	Urticaceae	Rosales
Oreocnide_integrifolia	KR529836	KR531302	KR534039		KR532450	Urticaceae	Rosales
Pouzolzia_rugulosa						Urticaceae	Rosales
Sarcochlamys_pulcherrima	KF138244			KF137924	KF137924	Urticaceae	Rosales
Anacolosa_densiflora						Olacaceae	Santalales
Anacolosa_frutescens	LC736065	LC737289	LC737810			Olacaceae	Santalales
Olax_acuminata						Olacaceae	Santalales
Olax_zeylanica						Olacaceae	Santalales
Strombosia_ceylanica	KJ594898	KJ709095				Olacaceae	Santalales
Strombosia_nana						Olacaceae	Santalales
Ximenia_americana	MG718587	MG719099		DQ333869	DQ333869	Olacaceae	Santalales
Champereia_manillana	MF623322	MH115979	MF623387	KY381614	KY381614	Opiliaceae	Santalales
Lepionurus_sylvestris	KY381684	KY381647	KY381721	KY381611	KY381611	Opiliaceae	Santalales
Pyrularia_edulis	MG210304	MH662613	MH662633	MH662598	MH662598	Santalaceae	Santalales
Santalum_album	GQ436682	KY556633	GQ435377	MH547587	MH547587	Santalaceae	Santalales

Scleropyrum_pentandrum	AB925837	AB925206				Santalaceae	Santalales
Anacardium_occidentale	OK052731	AY594459	OK052801	AB071690	AB071690	Anacardiaceae	Sapindales
Bouea_oppositifolia	LC736127	LC737296		MF444895	MF444895	Anacardiaceae	Sapindales
Buchanania_arborescens	MH332414	MH332536				Anacardiaceae	Sapindales
Buchanania_axillaris						Anacardiaceae	Sapindales
Buchanania_lanceolata						Anacardiaceae	Sapindales
Buchanania_lanzan	KF432041					Anacardiaceae	Sapindales
Buchanania_splendens						Anacardiaceae	Sapindales
Campnosperma_zeylanicum						Anacardiaceae	Sapindales
Choerospondias_axillaris	LC691443	LC678882	KR076007	KR531918	KR531918	Anacardiaceae	Sapindales
Dracontomelon_dao	OK052758					Anacardiaceae	Sapindales
Drimycarpus_racemosus	KR529124	KR530704	KF664316	KF664195	KF664195	Anacardiaceae	Sapindales
Gluta_travancorica						Anacardiaceae	Sapindales
Holigarna_arnottiana	ON986782	ON184710	ON184712	OK235482		Anacardiaceae	Sapindales
Holigarna_beddomei	ON986780	OP476723	OP548120	OK284370		Anacardiaceae	Sapindales
Holigarna_ferruginea	ON986783			OK284371		Anacardiaceae	Sapindales
Holigarna_grahamii	ON986781		ON184708	OM010328		Anacardiaceae	Sapindales
Holigarna_longifolia						Anacardiaceae	Sapindales
Holigarna_nigra	ON986779		ON184716			Anacardiaceae	Sapindales
Lannea_coromandelica	AB925480	AB924865				Anacardiaceae	Sapindales
Mangifera_andamanica			MF538522	AB598046	AB598046	Anacardiaceae	Sapindales
Mangifera_camptosperma			MF538525	AB598043	AB598043	Anacardiaceae	Sapindales
Mangifera_indica	LC417318	JQ586473	KR076023	MF678502	MF678502	Anacardiaceae	Sapindales
Mangifera_pseudoindica						Anacardiaceae	Sapindales
Mangifera_sylvatica	MH113359	KR531149		AB071689	AB071689	Anacardiaceae	Sapindales
Mangifera_zeylanica		MG787234	MF538523	AJ890469	AJ890469	Anacardiaceae	Sapindales
Nothopegia_aureofulva						Anacardiaceae	Sapindales
Nothopegia_beddomei		MG787235		MG672050	MG672050	Anacardiaceae	Sapindales

Nothopegia_castaneifolia						Anacardiaceae	Sapindales
Nothopegia_colebrookeana						Anacardiaceae	Sapindales
Nothopegia_heyneana						Anacardiaceae	Sapindales
Nothopegia_travancorica						Anacardiaceae	Sapindales
Parishia_insignis	LC736530	LC737309	LC737827			Anacardiaceae	Sapindales
Pistacia_chinensis	GU935438	MN722260		MT227676	MT227676	Anacardiaceae	Sapindales
Pistacia_khinjuk	KY794577		KF664293	OM746110	OM746110	Anacardiaceae	Sapindales
Rhus_amherstensis						Anacardiaceae	Sapindales
Rhus_chinensis	LC693219	LC678871	KP095924	EF682845	EF682845	Anacardiaceae	Sapindales
Rhus_griffithii						Anacardiaceae	Sapindales
Rhus_punjabensis	KP088832	KP089292		AY641490	AY641490	Anacardiaceae	Sapindales
Searsia_parviflora				KX360045	KX360045	Anacardiaceae	Sapindales
Semecarpus_acuminatus						Anacardiaceae	Sapindales
Semecarpus_anacardium			KR108275			Anacardiaceae	Sapindales
Semecarpus_coriaceus						Anacardiaceae	Sapindales
Semecarpus_gardneri		MG787236		MG672043	MG672043	Anacardiaceae	Sapindales
Semecarpus_kurzii						Anacardiaceae	Sapindales
Semecarpus_marginatus						Anacardiaceae	Sapindales
Semecarpus_moonii						Anacardiaceae	Sapindales
Semecarpus_nigroviridis		MG787238		MG672045	MG672045	Anacardiaceae	Sapindales
Semecarpus_obovatus						Anacardiaceae	Sapindales
Semecarpus_ochraceus						Anacardiaceae	Sapindales
Semecarpus_parvifolius						Anacardiaceae	Sapindales
Semecarpus_prainii						Anacardiaceae	Sapindales
Semecarpus_pseudoemarginatus						Anacardiaceae	Sapindales
Semecarpus_pubescens						Anacardiaceae	Sapindales
Semecarpus_subpanduriformis						Anacardiaceae	Sapindales
Semecarpus_subpeltatus						Anacardiaceae	Sapindales

Semecarpus_travancoricus						Anacardiaceae	Sapindales
Semecarpus_walkeri		MG787242		MG672049	MG672049	Anacardiaceae	Sapindales
Spondias_pinnata	MN262109	MN262106	KR076262			Anacardiaceae	Sapindales
Spondias_xerophila						Anacardiaceae	Sapindales
Toxicodendron_acuminatum	OK562457	KR531578	KR533340			Anacardiaceae	Sapindales
Toxicodendron_hookeri				FJ945942	FJ945942	Anacardiaceae	Sapindales
Toxicodendron_succedaneum	LC693601	LC678860	KP095926	KP093196	KP093196	Anacardiaceae	Sapindales
Toxicodendron_wallichii	KY202652			FJ945960	FJ945960	Anacardiaceae	Sapindales
Boswellia_ovalifoliolata						Burseraceae	Sapindales
Boswellia_serrata	MK244689			JQ665239	JQ665239	Burseraceae	Sapindales
Canarium_bengalense	MT933776	MW04407 5	MW04795 9		MW04432 5	Burseraceae	Sapindales
Canarium_denticulatum						Burseraceae	Sapindales
Canarium_euphyllum						Burseraceae	Sapindales
Canarium_resiniferum						Burseraceae	Sapindales
Canarium_strictum	MW51283 8		AY635379			Burseraceae	Sapindales
Canarium_zeylanicum	KF521882	KF521891	AY635382			Burseraceae	Sapindales
Commiphora_berryi				JN882667	JN882667	Burseraceae	Sapindales
Commiphora_caudata	MW42361 9			JN882668	JN882668	Burseraceae	Sapindales
Garuga_floribunda	JF739095			MN161742	MN161742	Burseraceae	Sapindales
Garuga_pinnata	MH401134	KR530882	KM516827		MH198426	Burseraceae	Sapindales
Protium_serratum	GU246042			KJ503508	KJ503508	Burseraceae	Sapindales
Scutinanthe_brunnea	OP587488	OP587365				Burseraceae	Sapindales
Aglaia_apiocarpa				KF212021	KF212021	Meliaceae	Sapindales
Aglaia_argentea	OK052728	LC737339	OK052799	MT439758	MT439758	Meliaceae	Sapindales
Aglaia_chittagonga				AY695528	AY695528	Meliaceae	Sapindales
Aglaia_cucullata	JF738768			AY695572	AY695572	Meliaceae	Sapindales

Aglaia_edulis	GQ248542	GQ248073	GQ248239	MT439764	MT439764	Meliaceae	Sapindales
Aglaia_elaeagnoidea	KR528615	KM894515	KR533406	AY695536	AY695536	Meliaceae	Sapindales
Aglaia_hiernii	LC736043	LC737327		MT439777	MT439777	Meliaceae	Sapindales
Aglaia_lawii	KR528617	AB925000	KR533390	MT439790	MT439790	Meliaceae	Sapindales
Aglaia_malabarica				KF212080	KF212080	Meliaceae	Sapindales
Aglaia_oligophylla				MT439812	MT439812	Meliaceae	Sapindales
Aglaia_simplicifolia	LC736048	LC737334	LC737841	MT439826	MT439826	Meliaceae	Sapindales
Aglaia_spectabilis		MH115857		MT439830	MT439830	Meliaceae	Sapindales
Aglaia_tomentosa	MH332433			EU310266	EU310266	Meliaceae	Sapindales
Amoora_aherniana						Meliaceae	Sapindales
Amoora_chittagonga						Meliaceae	Sapindales
Amoora_rohituka						Meliaceae	Sapindales
Amoora_wallichi						Meliaceae	Sapindales
Amoora_wallichii						Meliaceae	Sapindales
Amora_chittagonga						Meliaceae	Sapindales
Aphanamixis_polystachya	KR528733	MW044152	MW047942	MT417533	MT417533	Meliaceae	Sapindales
Azadirachta_excelsa						Meliaceae	Sapindales
Azadirachta_indica	AJ402917	EF489115	KP675876	ON563916	ON563916	Meliaceae	Sapindales
Chisocheton_cumingianus	GQ248567	GQ248096	KR533430	MT417544	MT417544	Meliaceae	Sapindales
Chukrasia_tabularis	MT933789	MW044226	MW047969	KR531922	KR531922	Meliaceae	Sapindales
Cipadessa_baccifera	MT933940	MW043981	JN044303	KR531924	KR531924	Meliaceae	Sapindales
Didymocheton_mollissimus	KR529182	KM894621	KR533399	MT417640	MT417640	Meliaceae	Sapindales
Dysoxylum_beddomei						Meliaceae	Sapindales
Dysoxylum_cyrtobotryum	KJ594692	KJ708913		KR364539	KR364539	Meliaceae	Sapindales
Dysoxylum_gotadhora	KR529167	KR530735	KR533435	MT417590	MT417590	Meliaceae	Sapindales
Dysoxylum_grande	KR529172	KR530740	LC737858	KR532031	KR532031	Meliaceae	Sapindales

Dysoxylum_malabaricum				MT417637	MT417637	Meliaceae	Sapindales
Goniocheton_arborescens	JF739057			DQ499101	DQ499101	Meliaceae	Sapindales
Heynea_trijuga	MH113416	KR531595	KR533384	MK246014	MK246014	Meliaceae	Sapindales
Melia_azedarach	MW623437	MW604703	MW048029	KP675795	KP675795	Meliaceae	Sapindales
Melia_dubia	MW623444	MW604710			MW378722	Meliaceae	Sapindales
Prasoxylon_alliaceum	MH332483	MH332619		MT417581	MT417581	Meliaceae	Sapindales
Prasoxylon_excelsum	KR529162	MW044218	KR533431	KR532025	KR532025	Meliaceae	Sapindales
Pseudocarapa_championii				MT417598	MT417598	Meliaceae	Sapindales
Reinwardtiodendron_anamalaiense						Meliaceae	Sapindales
Sandoricum_koetjape	MG976721	AB925010	OK052856	DQ861600	DQ861600	Meliaceae	Sapindales
Soymida_febrifuga	KY661349			KR364561		Meliaceae	Sapindales
Sphaerosacme_decandra				AY695590	AY695590	Meliaceae	Sapindales
Swietenia_mahagoni	FN599465	EU042835	JX856954	JX856509	JX856509	Meliaceae	Sapindales
Toona_ciliata	KM895616	JX518246	MW048082	FJ462488	FJ462488	Meliaceae	Sapindales
Toona_sinensis	MN192873	MN451044	KP675870	JX290139	JX290139	Meliaceae	Sapindales
Toona_sureni	MH113398		MH826632	KC155954	KC155954	Meliaceae	Sapindales
Turraea_pubescens	KM895935	KM894776				Meliaceae	Sapindales
Walsura_candollei						Meliaceae	Sapindales
Walsura_gardneri						Meliaceae	Sapindales
Walsura_pinnata	LC736739	LC737358	LC737864			Meliaceae	Sapindales
Walsura_robusta	KR530207	KR531632	KR533378	KR532714		Meliaceae	Sapindales
Walsura_trifoliolata	KP229424	KF732873				Meliaceae	Sapindales
Xylocarpus_granatum	OK635270	KM894474	KM895050	MH244038	MH244038	Meliaceae	Sapindales
Xylocarpus_moluccensis	KU568154	KX146369	KY430126	KY429972	KY429972	Meliaceae	Sapindales
Acronychia_pedunculata	AB925547	HQ415351	LN849172	KP093202	KP093202	Rutaceae	Sapindales

Aegle_marmelos	OP102127	OP491455	MN082789	LC633819	LC633819	Rutaceae	Sapindales
Atalantia_monophylla	KF432033	AB924797		GQ225867	MW82833 4	Rutaceae	Sapindales
Atalantia_racemosa						Rutaceae	Sapindales
Atalantia_simplicifolia						Rutaceae	Sapindales
Atalantia_wightii						Rutaceae	Sapindales
Chloroxylon_swietenia		KX426057		KM668705	KM668705	Rutaceae	Sapindales
Citrus_hystrix	MH069764	AB626797	LC438901	AB456053	AB456053	Rutaceae	Sapindales
Citrus_maxima	AB505955	AB762351	KY656125	MW17401 6	MW17401 6	Rutaceae	Sapindales
Citrus_medica	OP455909	MN481510	KY656123	MZ824496	MZ824496	Rutaceae	Sapindales
Citrus_sinensis	AB505957	AB762345	KY488167	AB456127	AB456127	Rutaceae	Sapindales
Clausena_anisata	MT231413	MN243196	AM500899	KU193661	KU193661	Rutaceae	Sapindales
Clausena_excavata	MH187225	MH187242	KR533520	KR531927	KR531927	Rutaceae	Sapindales
Clausena_heptaphylla	MW33935 7	MW92720 8	MW92721 3	HG424439	HG424439	Rutaceae	Sapindales
Clausena_indica						Rutaceae	Sapindales
Glycosmis_angustifolia				MT921515	MT921515	Rutaceae	Sapindales
Glycosmis_cyanocarpa						Rutaceae	Sapindales
Glycosmis_cymosa						Rutaceae	Sapindales
Glycosmis_macrocarpa						Rutaceae	Sapindales
Glycosmis_pentaphylla	GQ436748	AB762391	GQ435452	JX856459	JX856459	Rutaceae	Sapindales
Harrisonia_brownii	FR747828					Rutaceae	Sapindales
Limonia_acidissima	AB505963	AB762356		MH753420	MH753420	Rutaceae	Sapindales
Melicope_glabra	KJ594800	KJ709002		AB766296	AB766296	Rutaceae	Sapindales
Melicope_lunu-ankenda				HG971385	HG971385	Rutaceae	Sapindales
Merope_angulata						Rutaceae	Sapindales
Micromelum_integerrimum	OK562545	KR531204	KR533452	JX144208	JX144208	Rutaceae	Sapindales
Micromelum_minutum	KM895535	AB762396	KM895033	FJ434148	FJ434148	Rutaceae	Sapindales

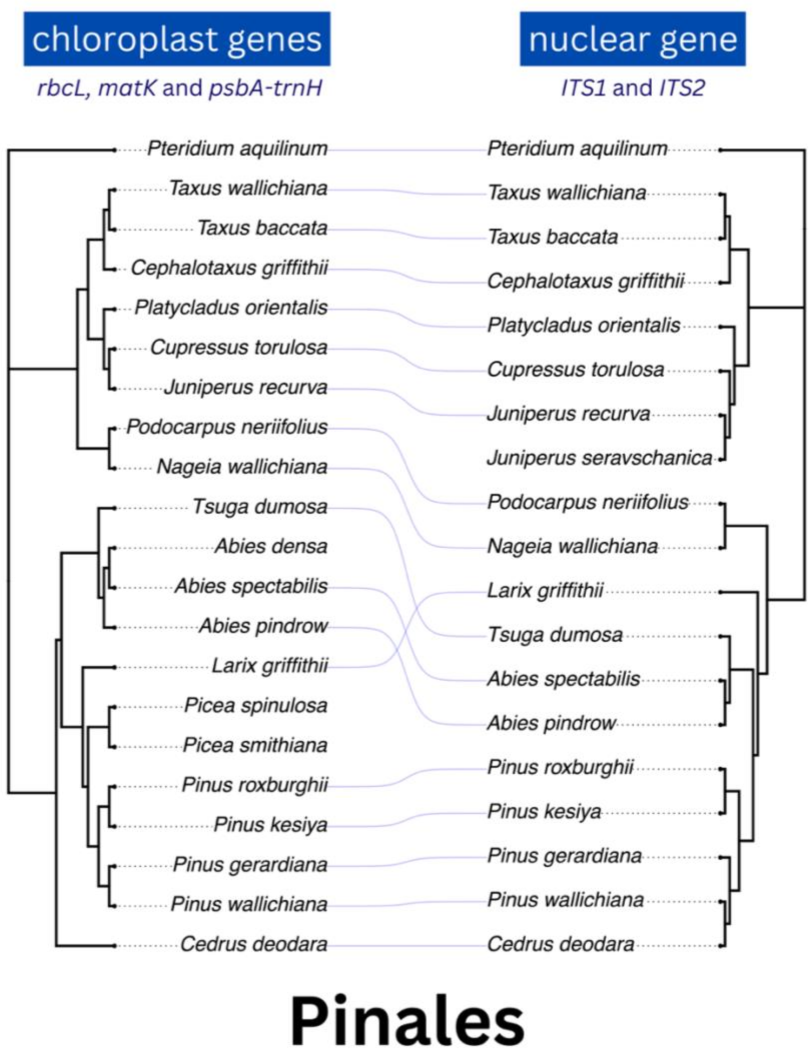
Murraya_koenigii	OL537003	KY595107	OK574612	OK574479	OK574479	Rutaceae	Sapindales
Murraya_paniculata	GU135173	GU135010	GU135341	MZ824494	MZ824494	Rutaceae	Sapindales
Naringi_crenulata	AB505914	AB762385				Rutaceae	Sapindales
Pamburus_missionis				FJ434155	FJ434155	Rutaceae	Sapindales
Pleiospermium_alatum	AF066821					Rutaceae	Sapindales
Skimmia_arborescens	KP094847	KP093904	KP095946	KP093216	KP093216	Rutaceae	Sapindales
Tetradium_trichotomum			MG975310	MH016474	MH016474	Rutaceae	Sapindales
Triphasia_trifolia	MN126108			JX144220	JX144220	Rutaceae	Sapindales
Vepris_bilocularis						Rutaceae	Sapindales
Zanthoxylum_asiaticum	LC694642	MH658901	OK420035	MH711672	MH711672	Rutaceae	Sapindales
Zanthoxylum_ovalifolium	MH658760	MH659396	MF070230	MH711670	MH711670	Rutaceae	Sapindales
Zanthoxylum_oxyphyllum				HM851481	HM851481	Rutaceae	Sapindales
Zanthoxylum_rhetsa	KP221929					Rutaceae	Sapindales
Zanthoxylum_tetraspermum						Rutaceae	Sapindales
Acer_acuminatum			DQ978580	AY605370	AY605370	Sapindaceae	Sapindales
Acer_caesium	MN205273	MN492865	MH116942	MH117390	MH117390	Sapindaceae	Sapindales
Acer_campbellii	MW54595 3	KX494365	KU945344	HM352652	HM352652	Sapindaceae	Sapindales
Acer_cappadocicum	KU902591	KU902534	KU945305	MN787879	MN787879	Sapindaceae	Sapindales
Acer_laevigatum	KU902572	MT273779	DQ978603	OP223030	OP223030	Sapindaceae	Sapindales
Acer_laurinum	OK562496	KR530246	KR533516	KR531665	KR531665	Sapindaceae	Sapindales
Acer_negundo	OM673001	MT273787	MT273687	MH710988	MH710988	Sapindaceae	Sapindales
Acer_oblongum	KU902565	AB872521	KU500494	OP223034	OP223034	Sapindaceae	Sapindales
Acer_pectinatum	MH116018	MH116499	MH116949	MH117395	MH117395	Sapindaceae	Sapindales
Acer_sikkimense	KU902614	KU902541	KU500531	KU902472	KU902472	Sapindaceae	Sapindales
Acer_thomsonii						Sapindaceae	Sapindales
Aesculus_assamica			KC510176	EU687578	EU687615	Sapindaceae	Sapindales
Aesculus_indica	HG765036		HG764968	MK334609	MK334609	Sapindaceae	Sapindales

Allophylus_cobbe	MH332409	MH332530		EU720517	EU720517	Sapindaceae	Sapindales
Allophylus_dimorphus						Sapindaceae	Sapindales
Allophylus_distachys						Sapindaceae	Sapindales
Allophylus_zeylanicus						Sapindaceae	Sapindales
Aphania_rubra	OK562543	LC737363	LC737869	KR532279	KR532279	Sapindaceae	Sapindales
Dimocarpus_gardneri						Sapindaceae	Sapindales
Dimocarpus_longan	AF153353	AY724286	JN407058			Sapindaceae	Sapindales
Dodonaea_viscosa	OP711117	KJ012569				Sapindaceae	Sapindales
Filicium_decipiens	AY724352	AY724294		EU720466	EU720466	Sapindaceae	Sapindales
Ganophyllum_falcatum	KF496316	EU720634	EU721423	EU720467	EU720467	Sapindaceae	Sapindales
Glenniea_unijuga						Sapindaceae	Sapindales
Harpullia_arborea	JF738925	GQ248130	GQ248309	FJ375194	FJ375194	Sapindaceae	Sapindales
Harpullia_cupanioides	OK562527	KR530924	AY207573	KR532206	KR532206	Sapindaceae	Sapindales
Lepisanthes_erecta						Sapindaceae	Sapindales
Lepisanthes_rubiginosa	OK052768	AB925056	OK052831	EU720446	EU720446	Sapindaceae	Sapindales
Lepisanthes_senegalensis	KR529535	KR531035	KR533492	KR532278	KR532278	Sapindaceae	Sapindales
Lepisanthes_tetraphylla	AB925400	MH115952	LC737870	HE586142	HE586142	Sapindaceae	Sapindales
Mischocarpus_sundaicus	MH826757	MW04424 1	MH826494		MW04444 2	Sapindaceae	Sapindales
Nephelium_uncinatum	LC736513	LC737369	LC737876			Sapindaceae	Sapindales
Otonephelium_stipulaceum						Sapindaceae	Sapindales
Pometia_pinnata	OK052786	LC737370	OK052854	KR532504	KR532504	Sapindaceae	Sapindales
Sapindus_emarginatus	KY988336			KY652845	KY652845	Sapindaceae	Sapindales
Sapindus_mukorossi	OM311951	LC680265	OK420073	AH005778	AH005778	Sapindaceae	Sapindales
Sapindus_rarak	KR529982	LC461906	KR533372	KR532546	KR532546	Sapindaceae	Sapindales
Sapindus_trifoliatus		EU720586		HE586134	HE586134	Sapindaceae	Sapindales
Schleichera_oleosa	AY724367	AY724329	MZ464778	EU720423	EU720423	Sapindaceae	Sapindales
Xerospermum_noronhianum	LC736763	MH115966	LC737878	JQ807602	JQ807602	Sapindaceae	Sapindales

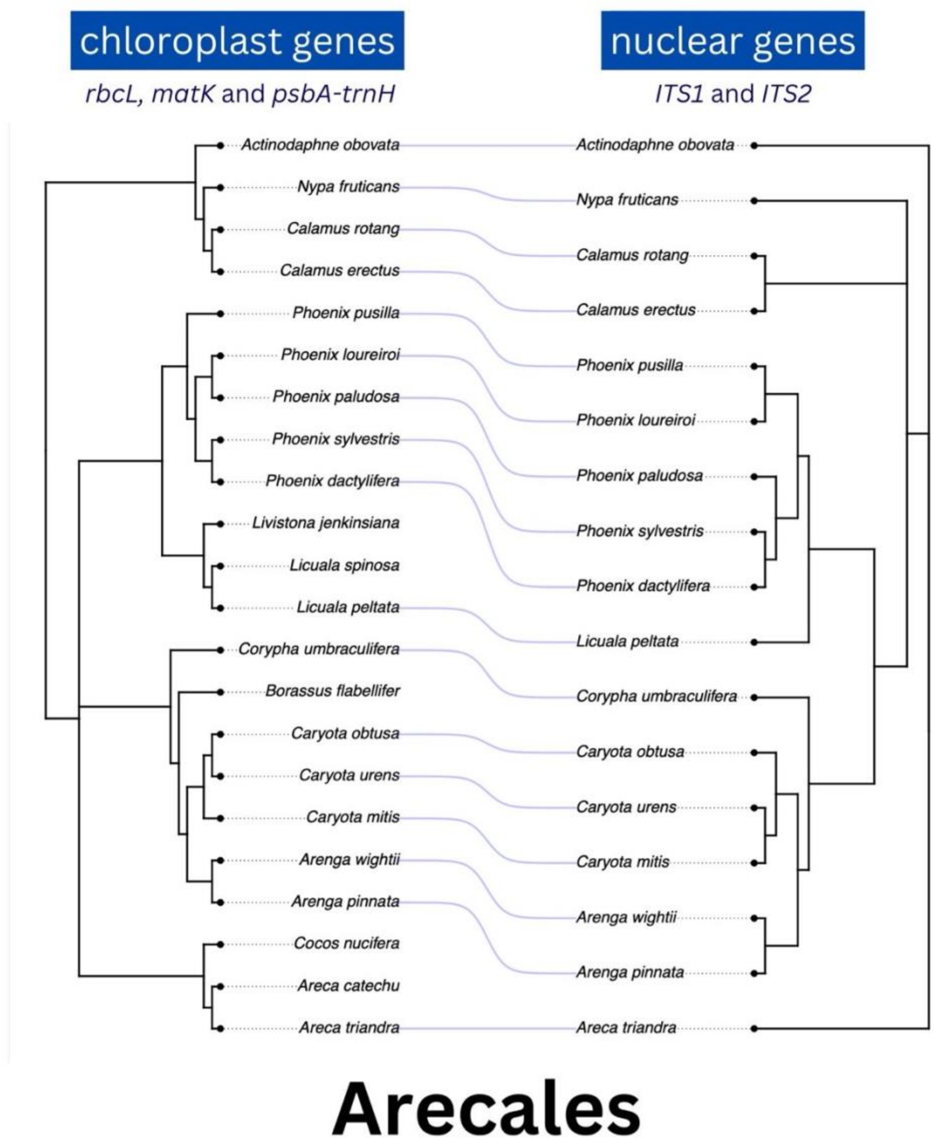
Ailanthus_altissima	MN853649	JX517969	MH660276	KM051450	KM051450	Simaroubaceae	Sapindales
Ailanthus_excelsa	KX951435			MH547403	MH547403	Simaroubaceae	Sapindales
Ailanthus_integrifolia	MH141086	MH141124				Simaroubaceae	Sapindales
Ailanthus_triphysa	EU042982	KM894426	KR533473	KR531699	KR531699	Simaroubaceae	Sapindales
Picrasma_javanica	JF738397	KR531358	KR533368			Simaroubaceae	Sapindales
Samadera_indica	EU043020	EU042882				Simaroubaceae	Sapindales
Altingia_excelsa	MT933754	MW04414 3	MW04794 1		MW04430 5	Altingiaceae	Saxifragales
Daphniphyllum_himalense						Daphniphyllacea e	Saxifragales
Ribes_glaciale	MH657759	MH659312	MH117266	MZ568364	MZ568364	Grossulariaceae	Saxifragales
Ribes_griffithii				HE795076	HE795076	Grossulariaceae	Saxifragales
Eustigma_lenticellatum						Hamamelidaceae	Saxifragales
Exbucklandia_populnea	AF060708	AF128831	AF147472	AH007304	AH007304	Hamamelidaceae	Saxifragales
Parrotiopsis_jacquemontiana	MG846201	KT438393		AF128802	AF128802	Hamamelidaceae	Saxifragales
Itea_macrophylla	KR529455	KR530961	KR533958	KR532226	KR532226	Iteaceae	Saxifragales
Cestrum_aurantiacum	JX856311		JX856332	MG875347	MG875347	Solanaceae	Solanales
Ampelocissus_latifolia			KF022298	KT344651	KT344651	Vitaceae	Vitales
Cissus_gardneri						Vitaceae	Vitales
Leea_aequata			JF437120			Vitaceae	Vitales
Leea_grandifolia						Vitaceae	Vitales
Leea_guineensis	KT006352	OP245419	JF437122	MW58308 7	KX951351	Vitaceae	Vitales
Leea_indica	MH143293	MH143352	JF437123	AY037924	KF544876	Vitaceae	Vitales
Leea_macrophylla			JF437124	JN160927	JN160927	Vitaceae	Vitales
Leea_rubra	OL536970	OL690049	JF437125		OL536539	Vitaceae	Vitales
Phrynium_pubinerve				JQ341264	JQ341264	Marantaceae	Zingiberales
Ensete_superbum	MT555129	KJ506062		ON639613	ON639613	Musaceae	Zingiberales
Amomum_dealbatum	JF940832	JF953185	JN043929	KX065427	KX065427	Zingiberaceae	Zingiberales

Amomum_muricatum	KJ871740	KJ872346		KJ872015	KJ872015	Zingiberaceae	Zingiberales
Boesenbergia_rotunda	LC461779	KM983426	LC461780	KY701331	KY701331	Zingiberaceae	Zingiberales
Balanites_roxburghii						Zygophyllaceae	Zygophyllales
Physcomitrella_patens	AB013656	LN828314	KP658937	JN089185	JN089185	Bryopsida	Funariales

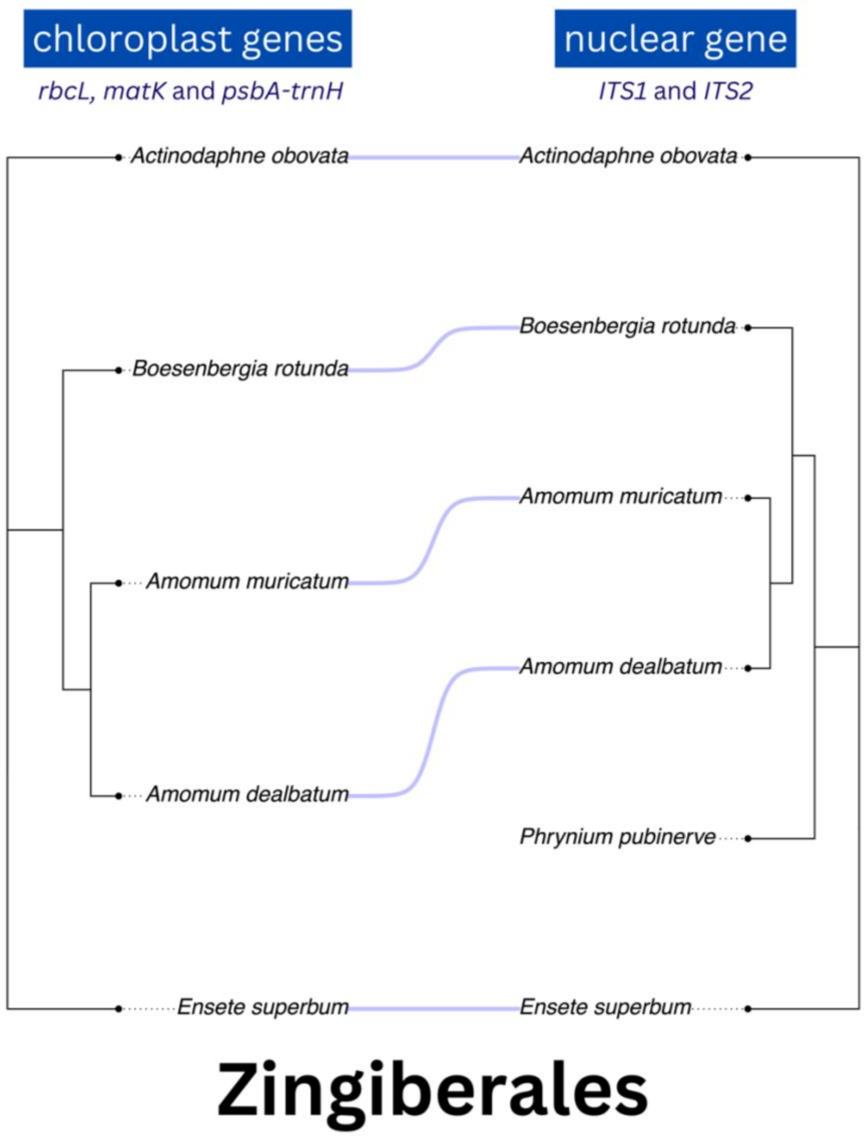
Appendix A2: Comparison between the phylograms constructed using the chloroplast genes – left (*rbcL, matK, psbA-trnH*) and nuclear genes – right (*ITS1 & ITS2*) of the order Pinales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



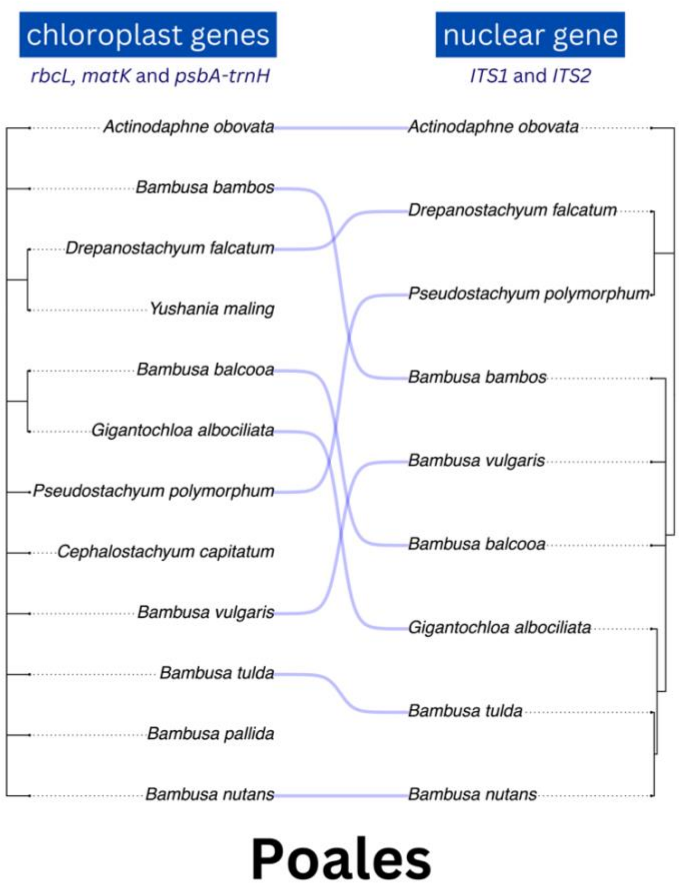
Appendix A3: Comparison between the phylograms constructed using the chloroplast genes – left (*rbcL, matK, psbA-trnH*) and nuclear genes – right (*ITS1 & ITS2*) of the order Arecales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



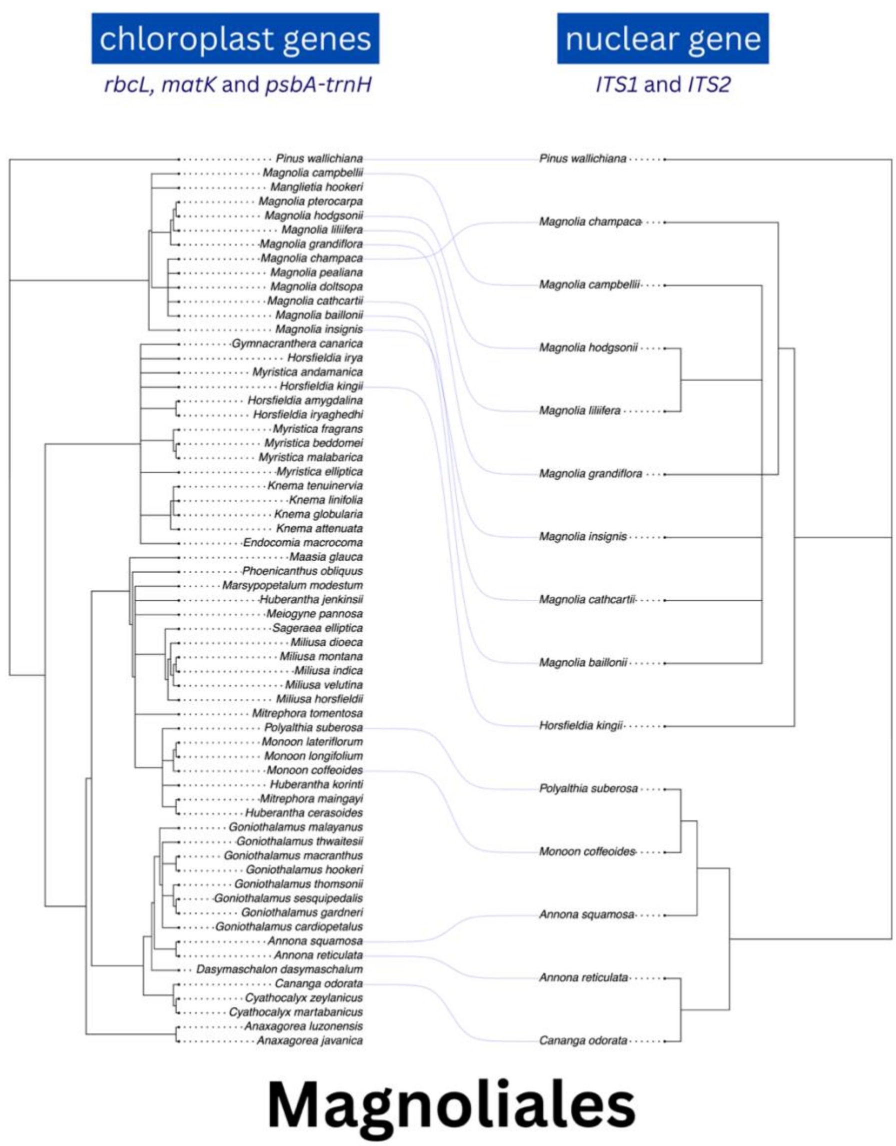
Appendix A4: Comparison between the phylograms constructed using the chloroplast genes – left (*rbcL, matK, psbA-trnH*) and nuclear genes (*ITS1 & ITS2*) of the order Zingiberales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



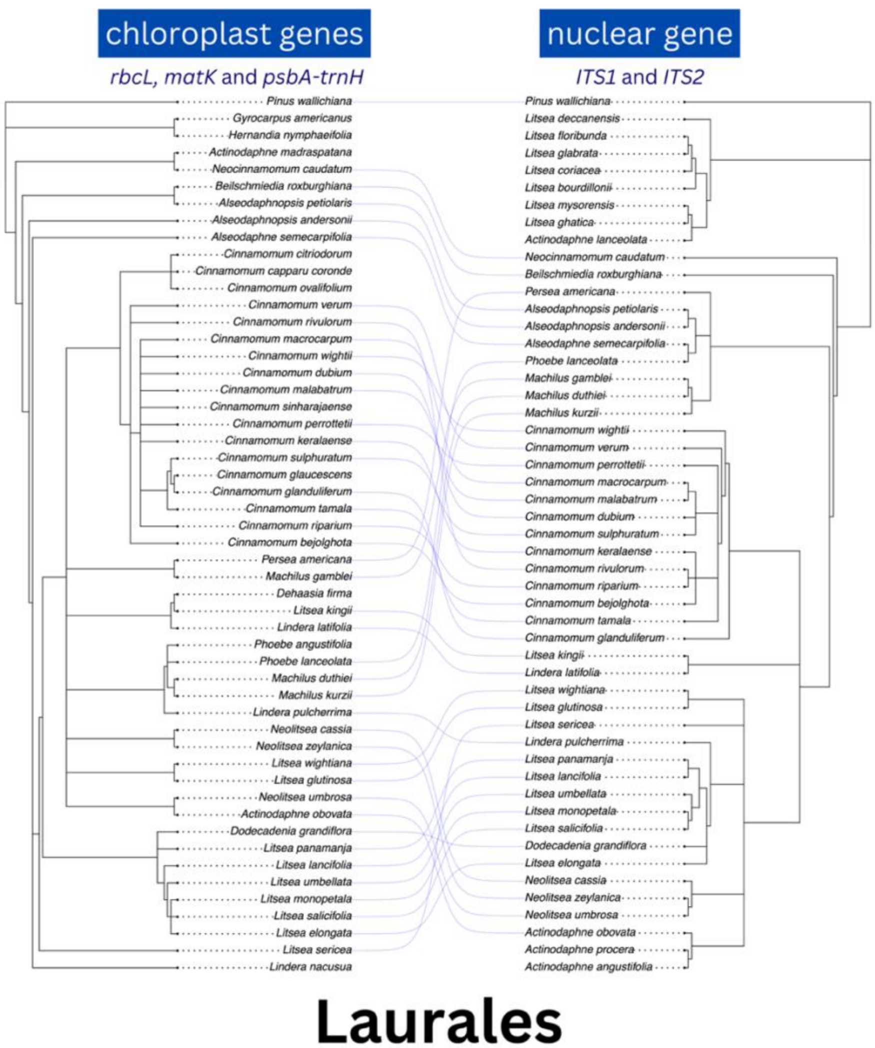
Appendix A5: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Poales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



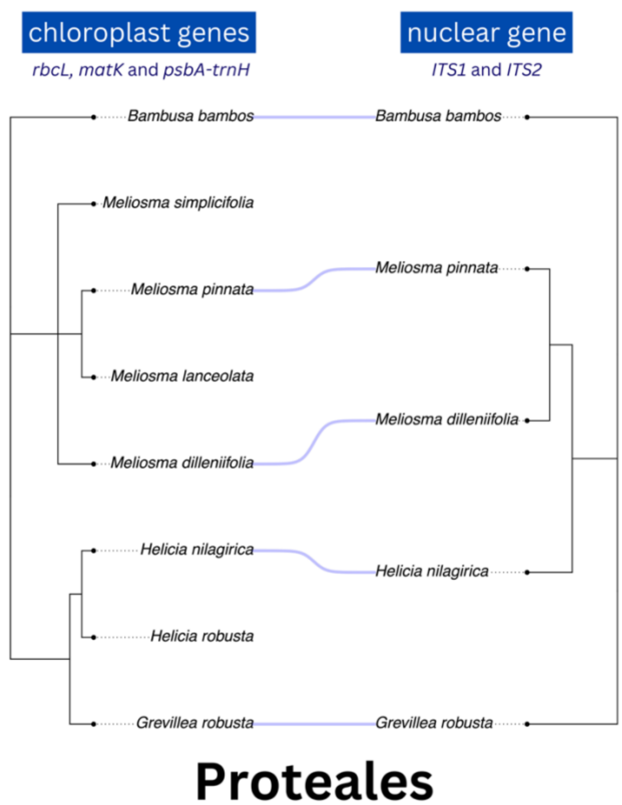
Appendix A6: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Magnoliales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



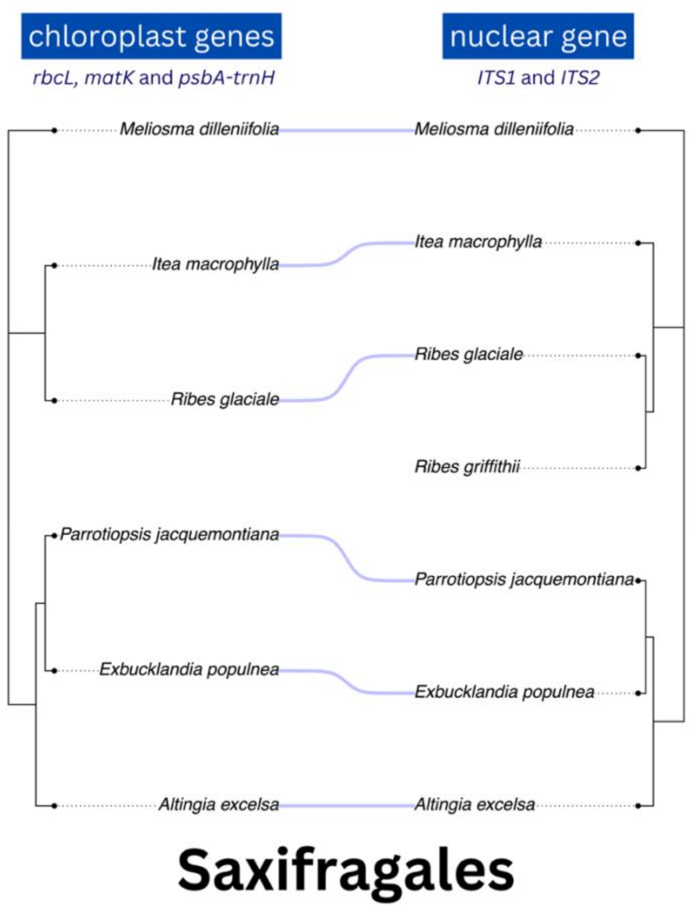
Appendix A7: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Laurales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



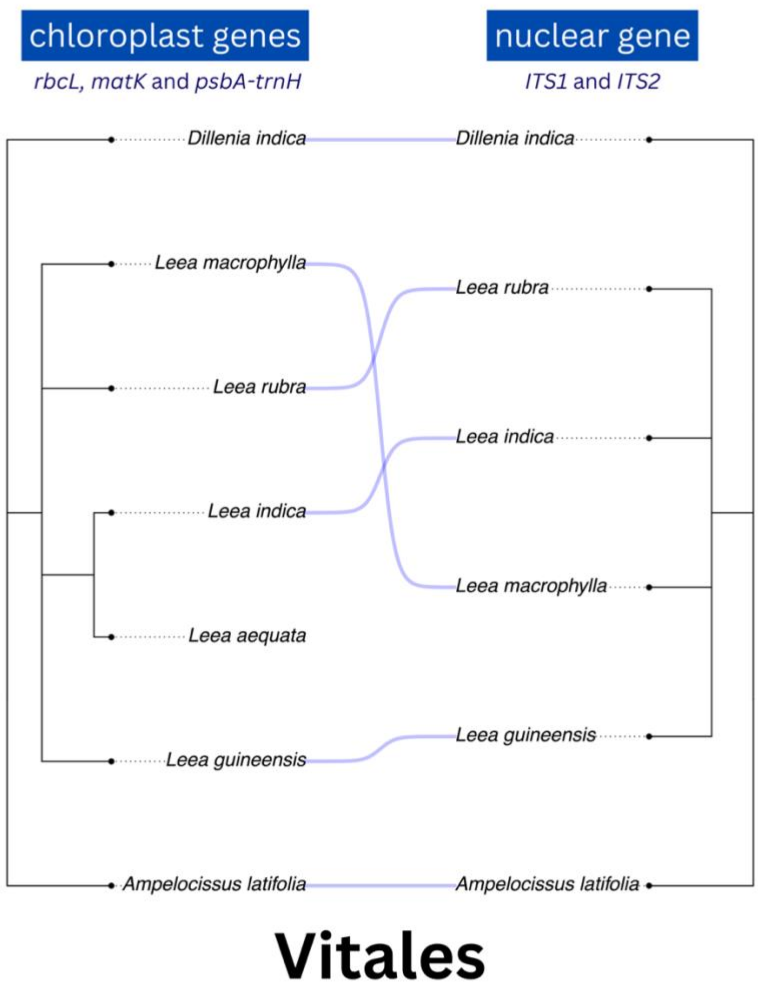
Appendix A8: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Proteales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



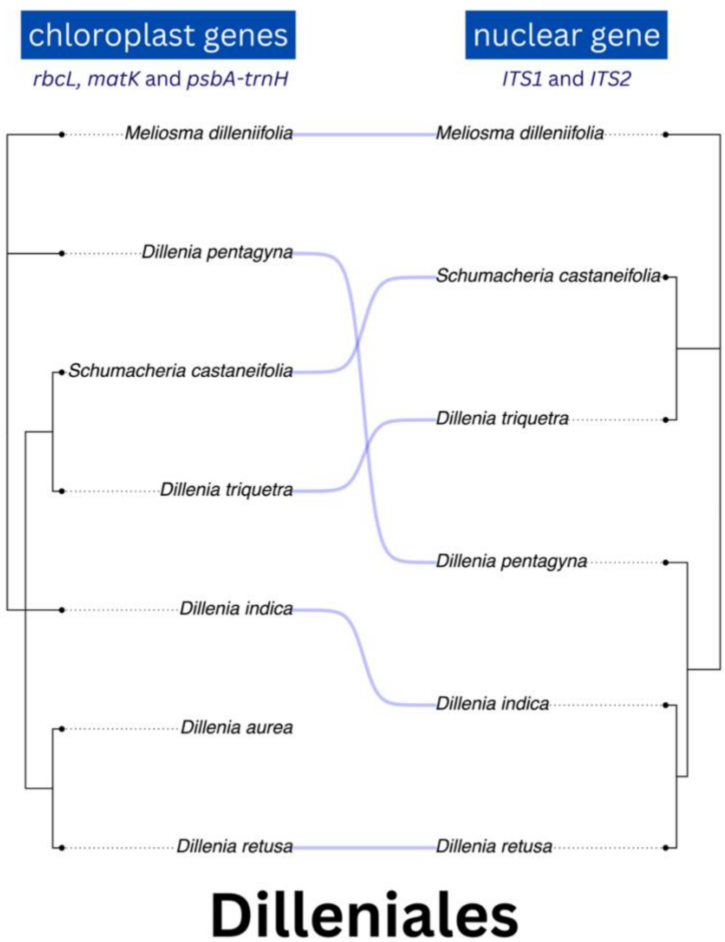
Appendix A9: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Saxifragales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



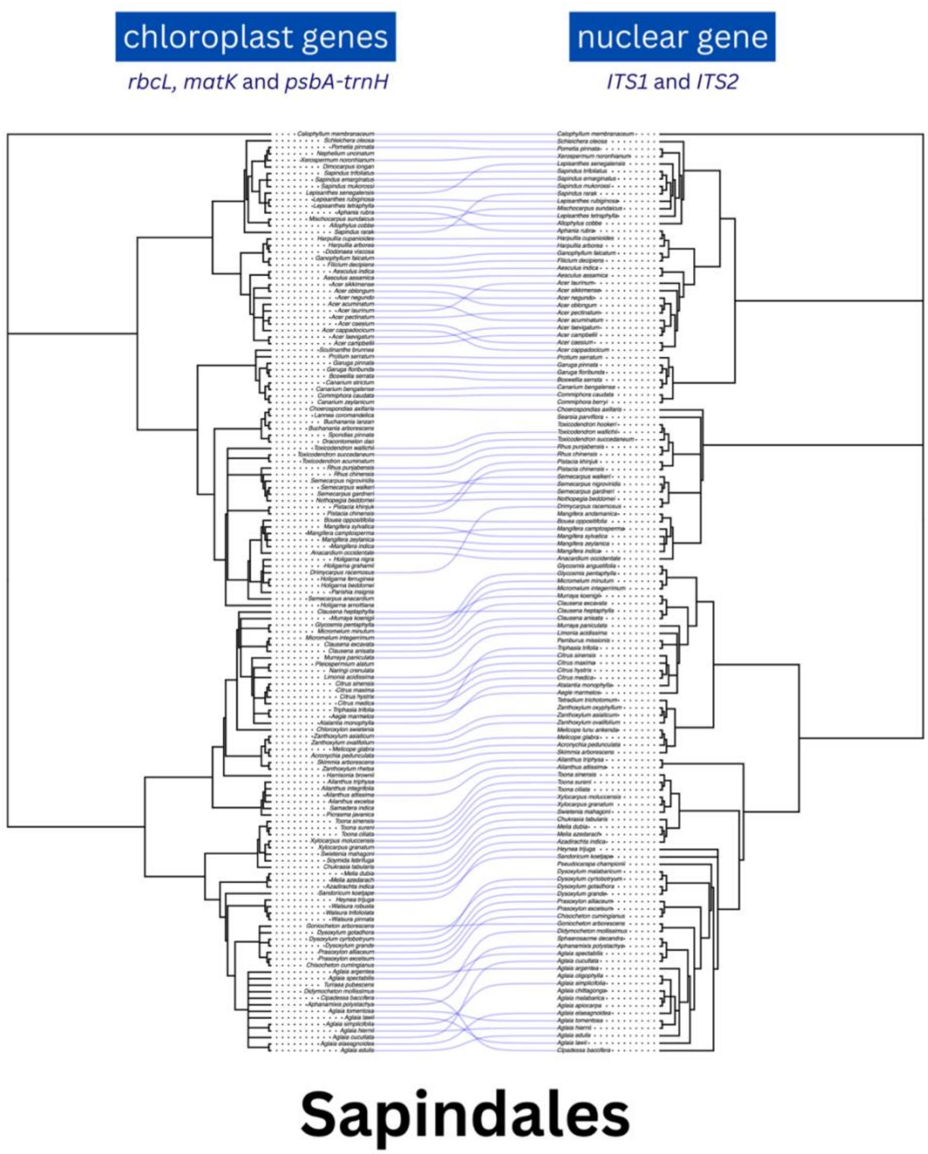
Appendix A10: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Vitales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



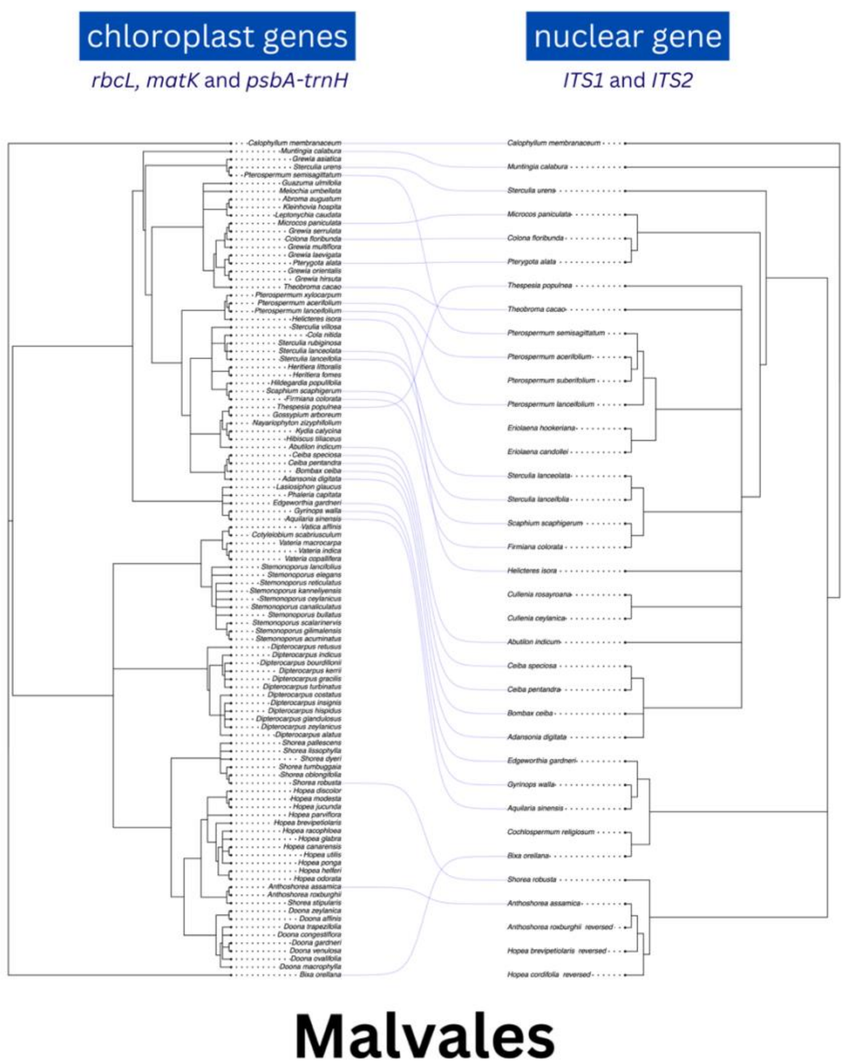
Appendix A11: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Dilleniales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



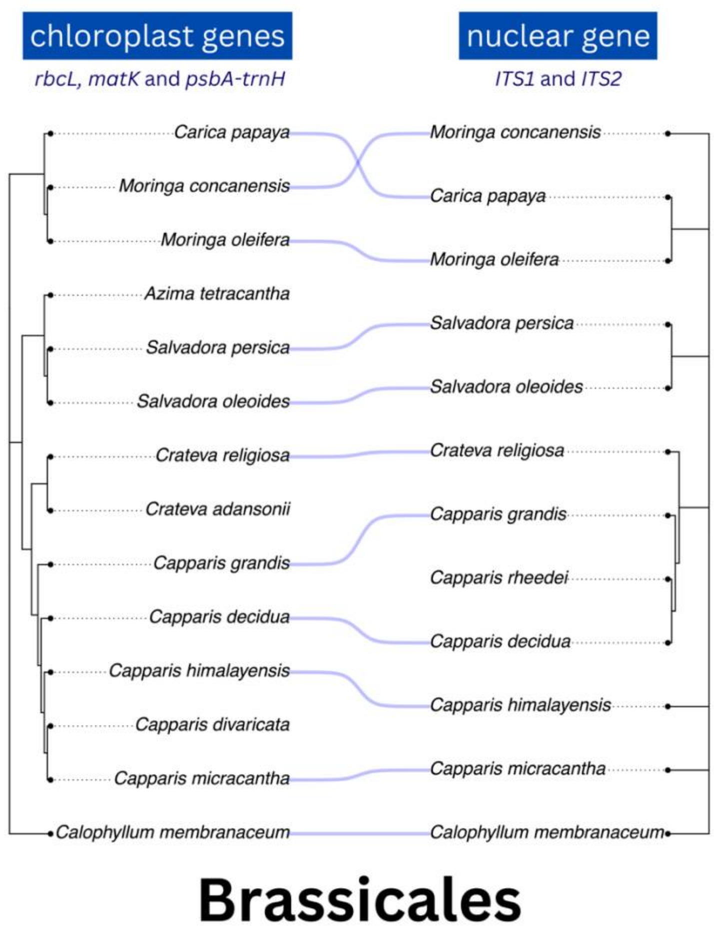
Appendix A12: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Sapindales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



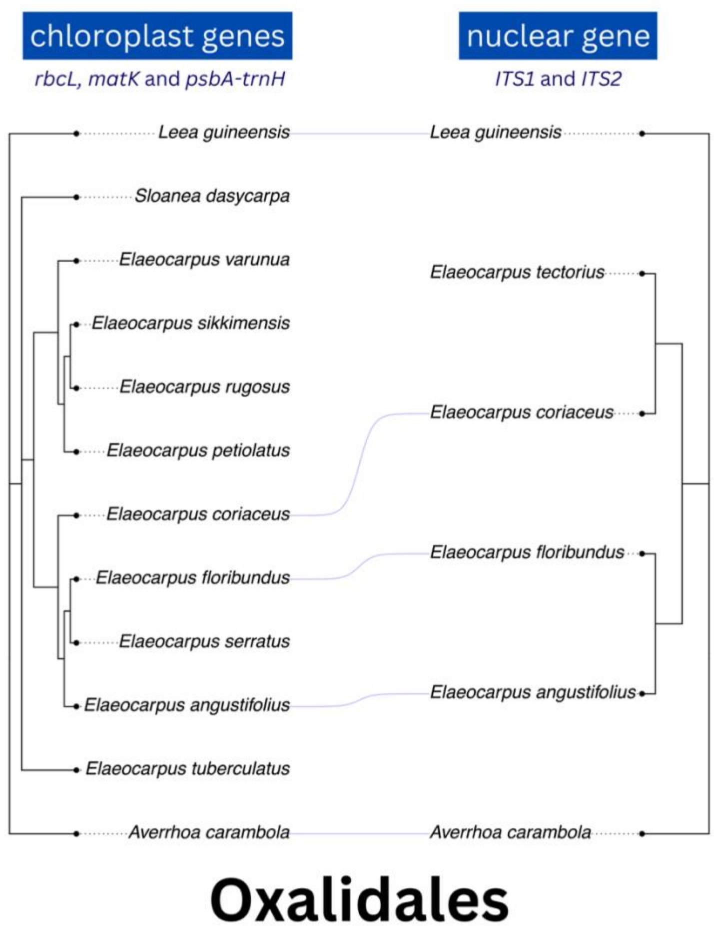
Appendix A13: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Malvales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



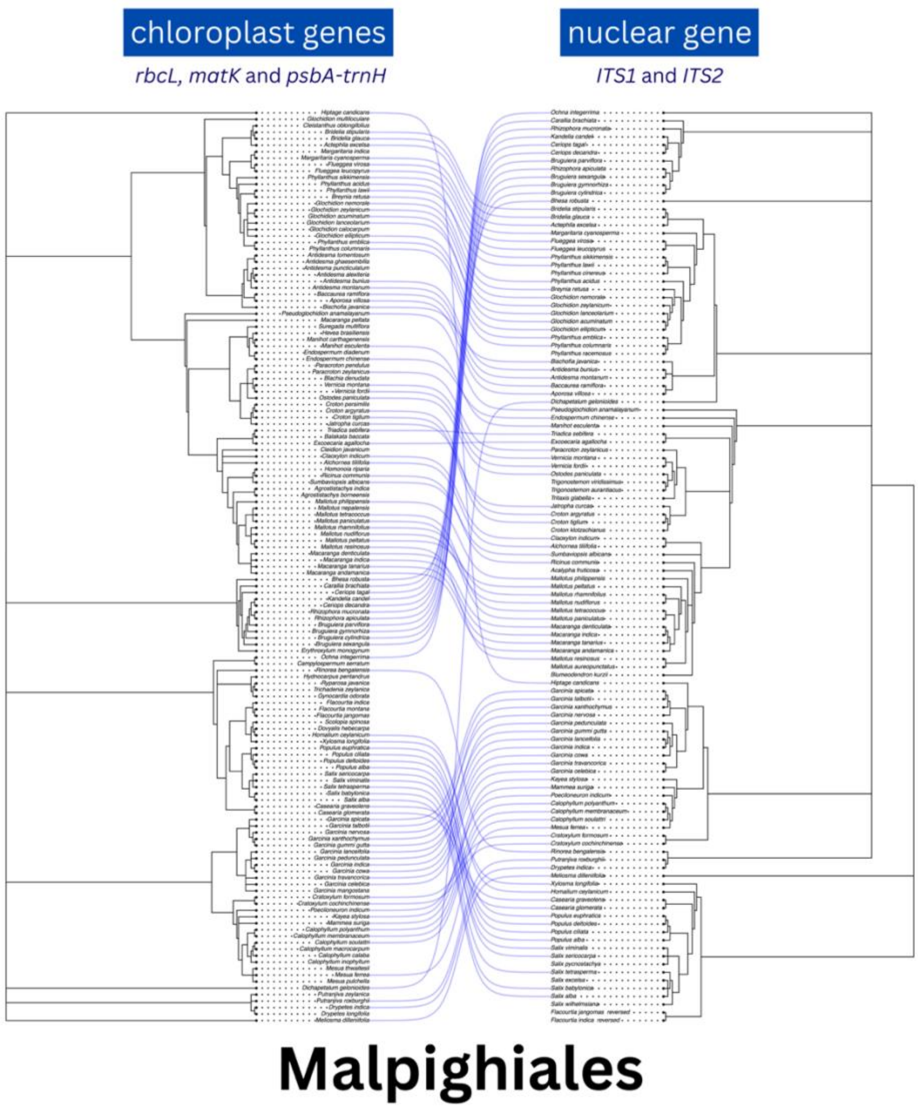
Appendix A14: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Brassicales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



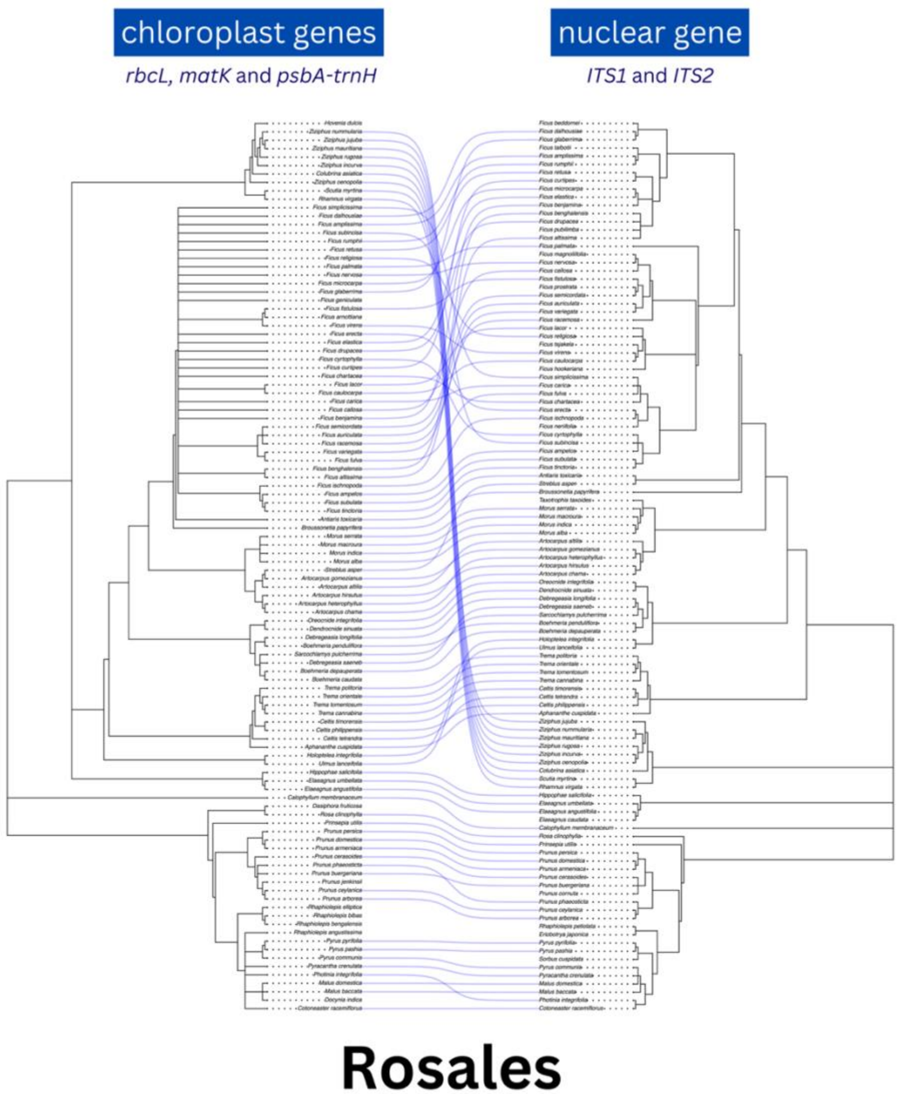
Appendix A15: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Oxalidales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



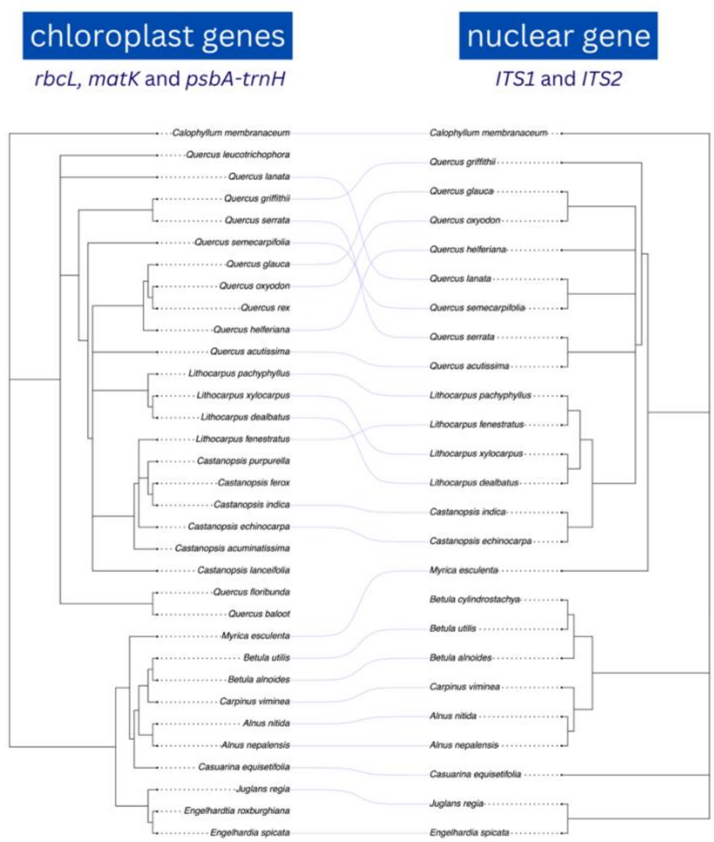
Appendix A16: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Malpighiales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



Appendix A17: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Rosales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.

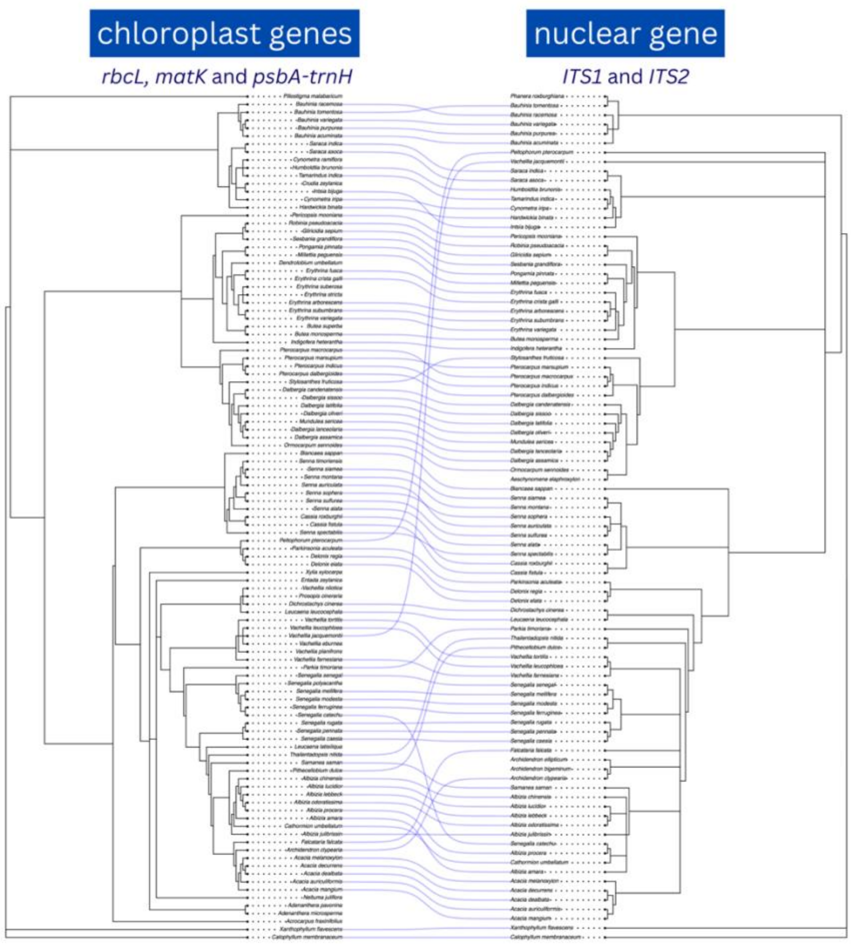


Appendix A18: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Fagales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



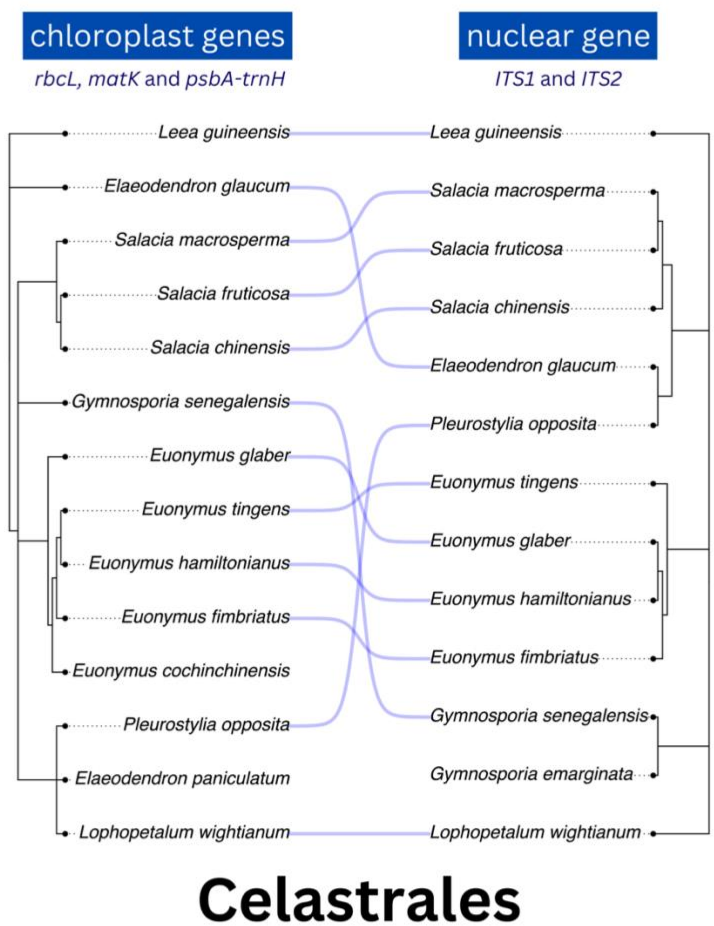
Fagales

Appendix A19: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Fabales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.

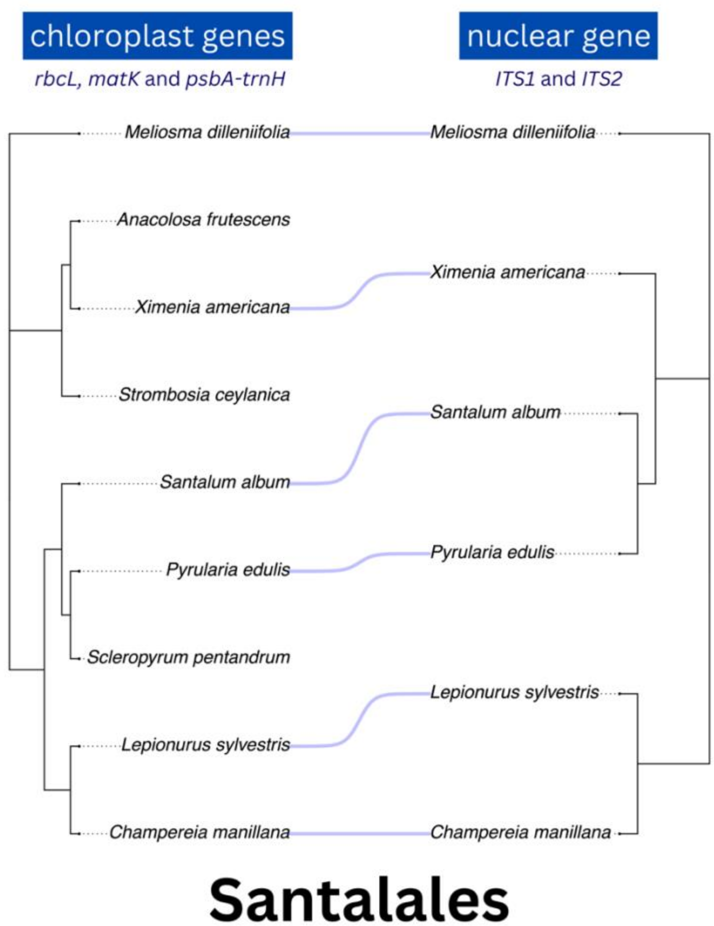


Fabales

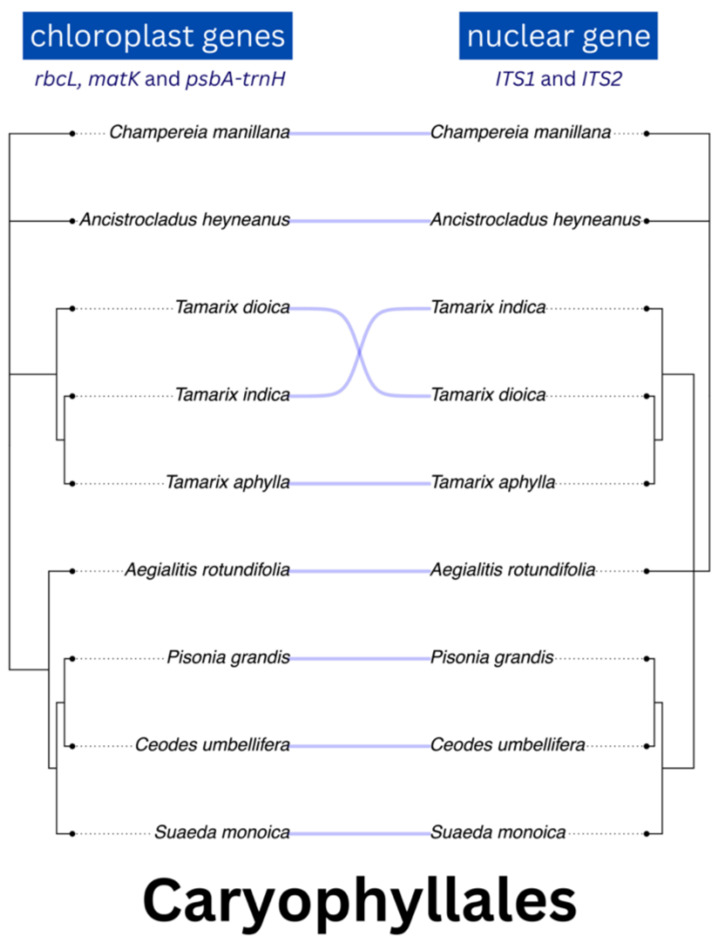
Appendix A20: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Celastrales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



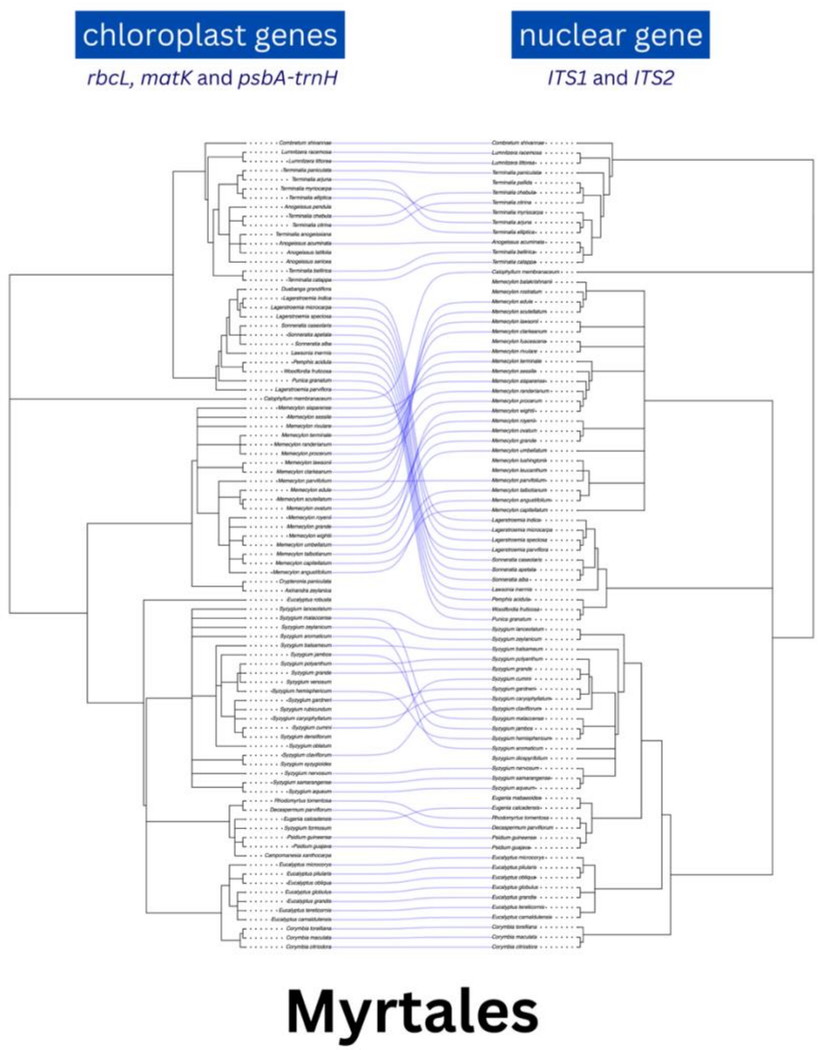
Appendix A21: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Santalales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



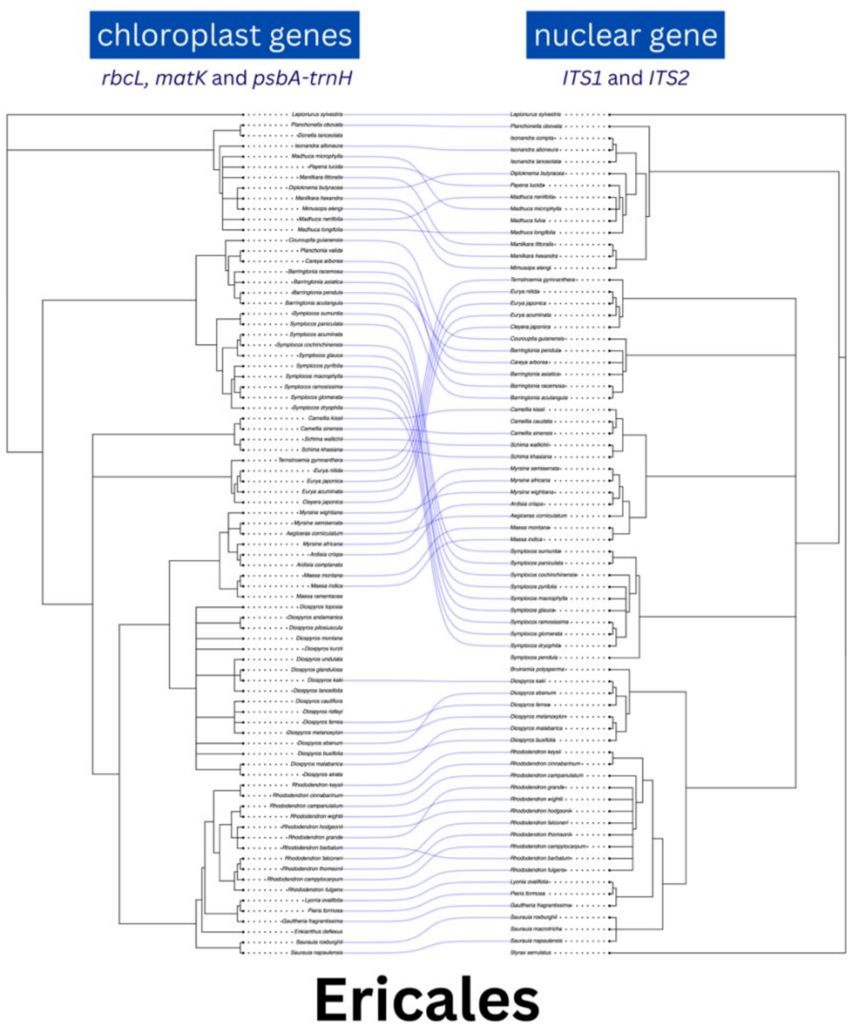
Appendix A22: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Caryophyllales, generated through the Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



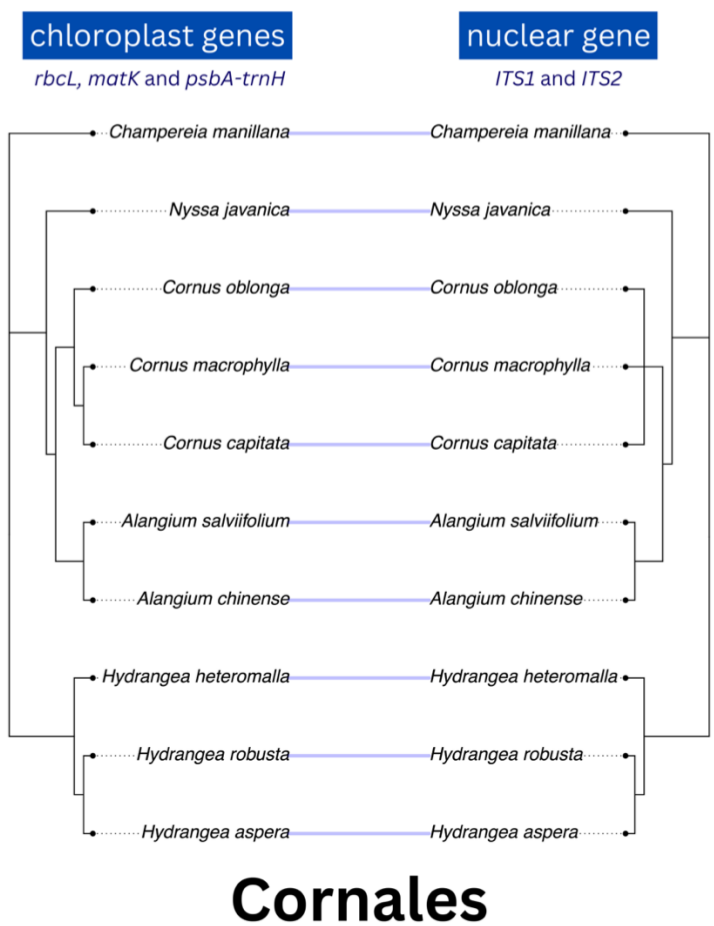
Appendix A23: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Myrtales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



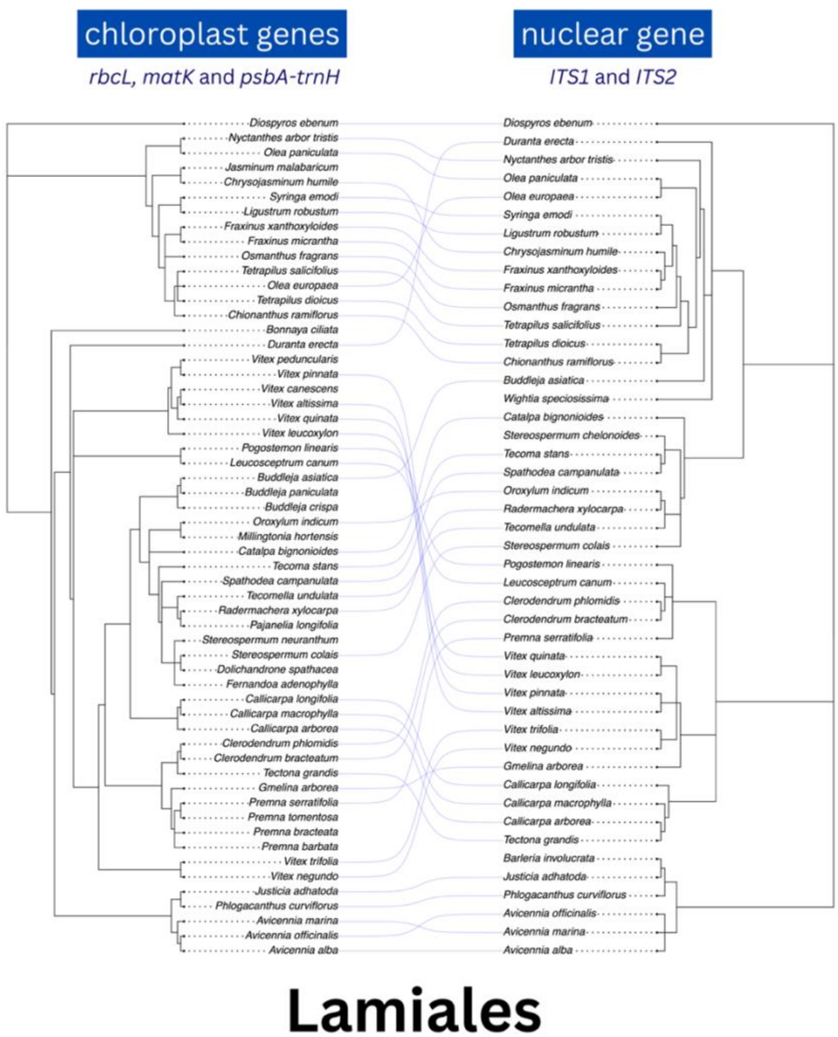
Appendix A24: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Ericales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



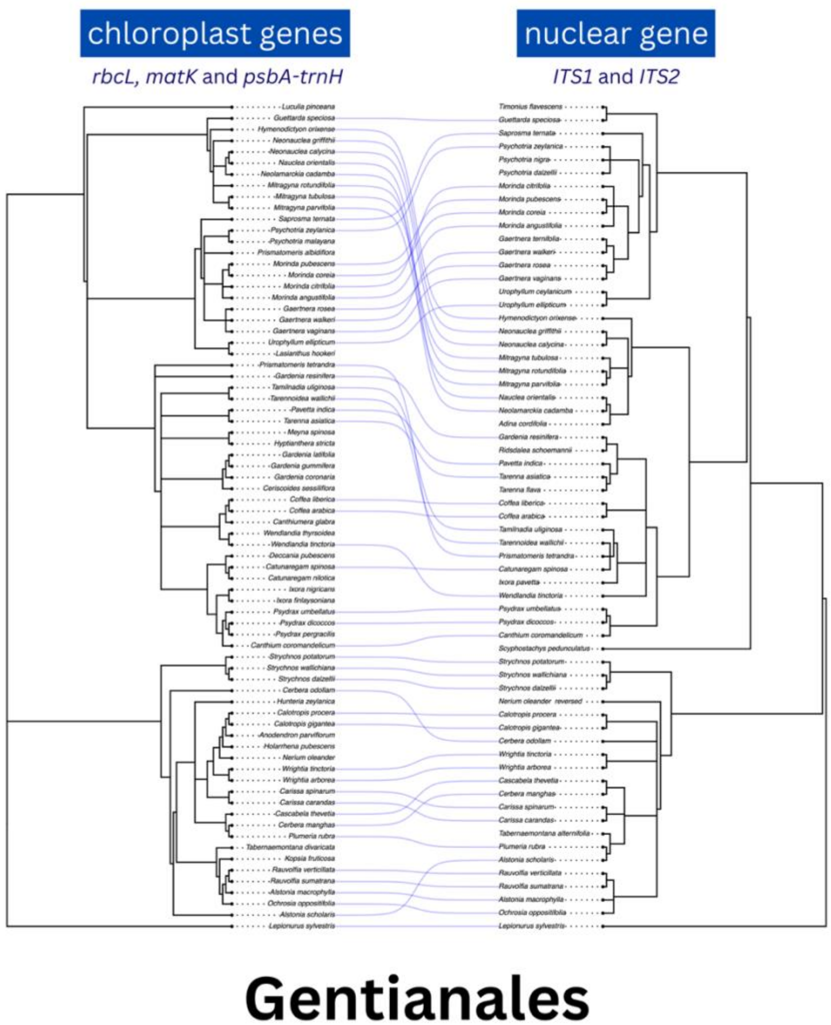
Appendix A25: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Cornales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



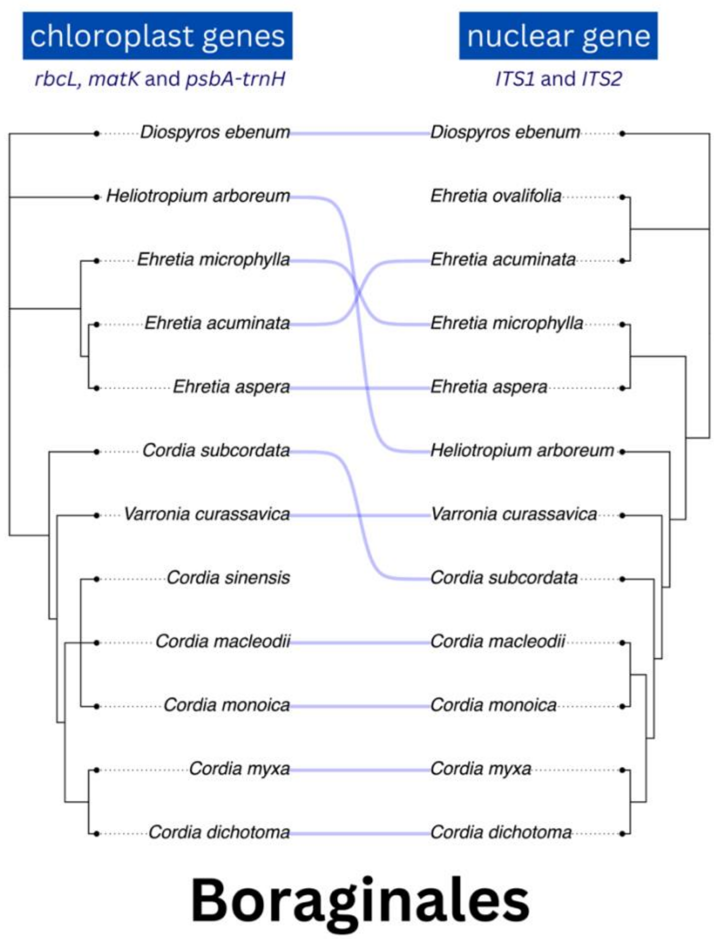
Appendix A26: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Lamiales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



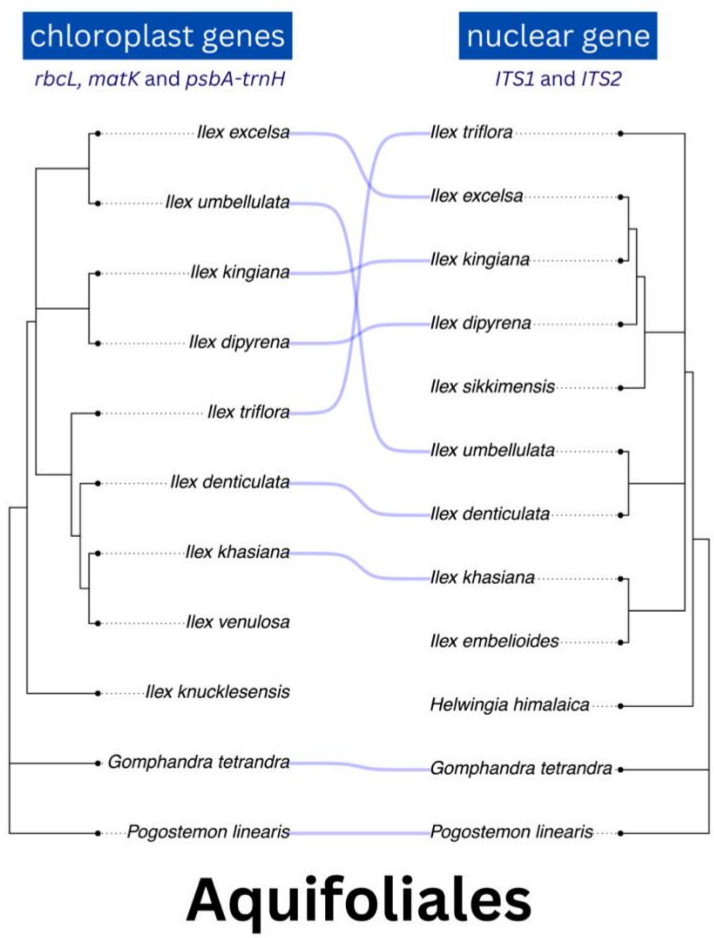
Appendix A27: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Gentianales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



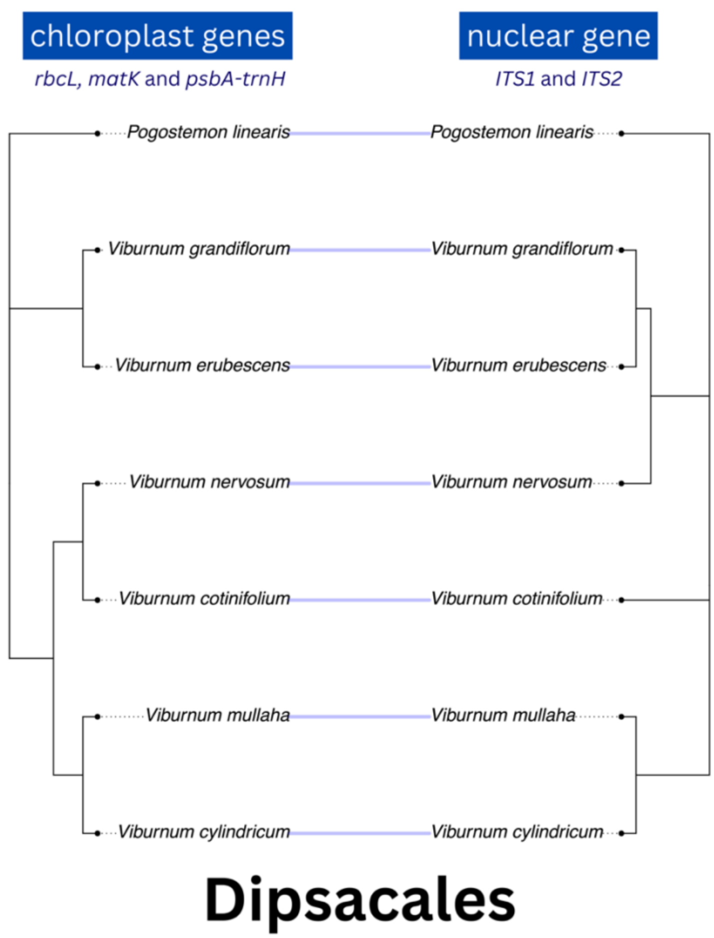
Appendix A28: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Boraginales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



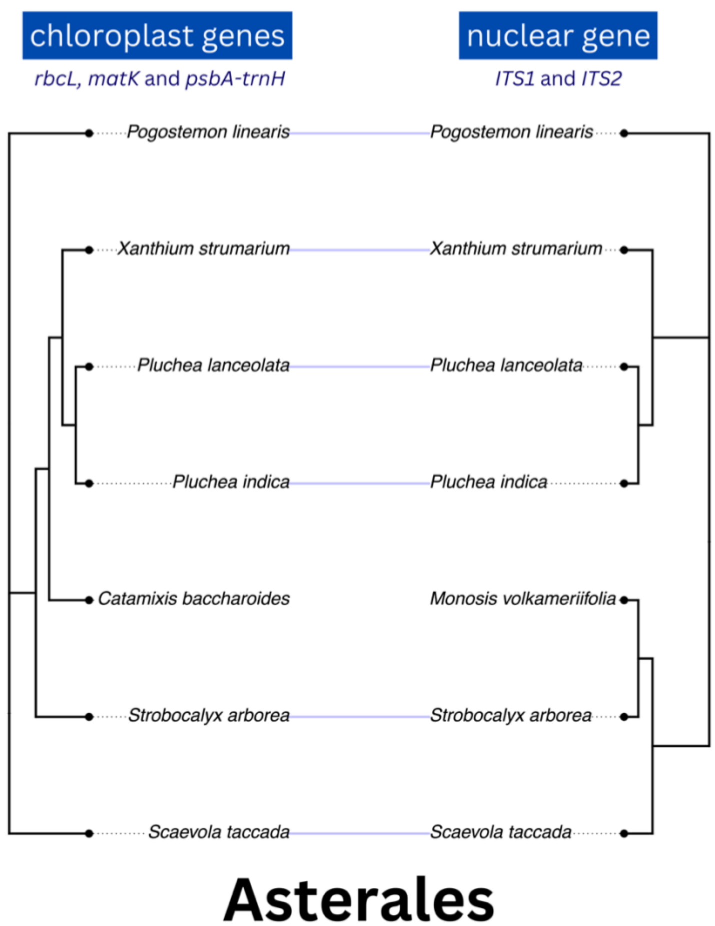
Appendix A29: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Aquifoliales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



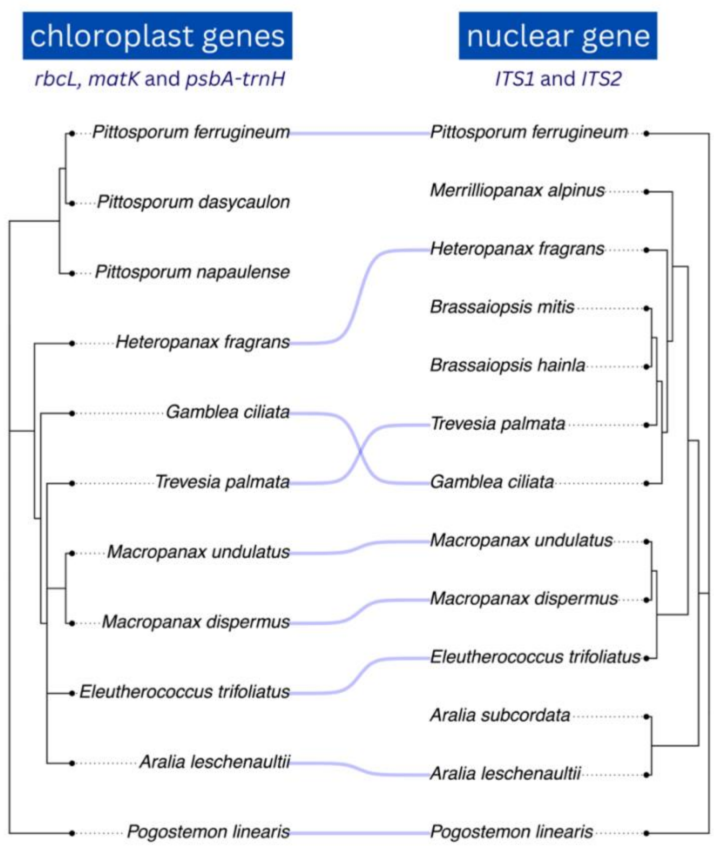
Appendix A30: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Dipsacales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



Appendix A31: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Asterales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.

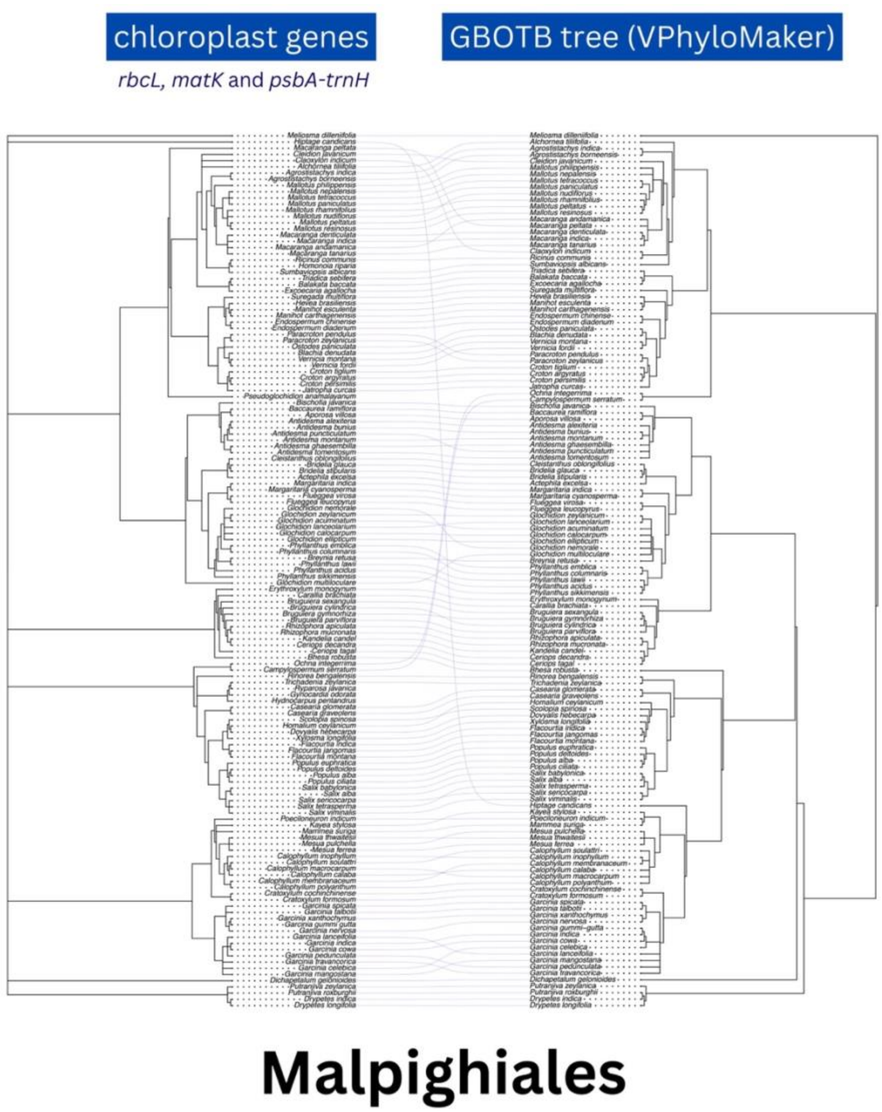


Appendix A32: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) and nuclear genes - right (*ITS1 & ITS2*)of the order Apiales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.

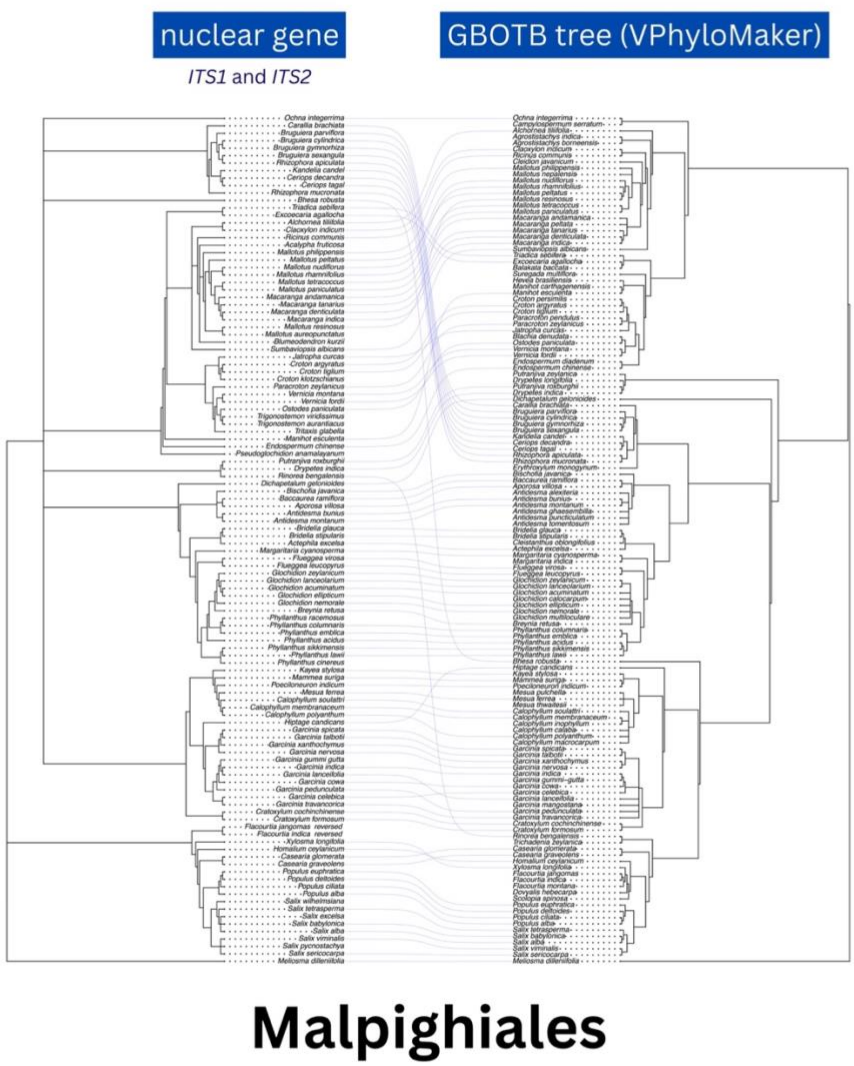


Apiales

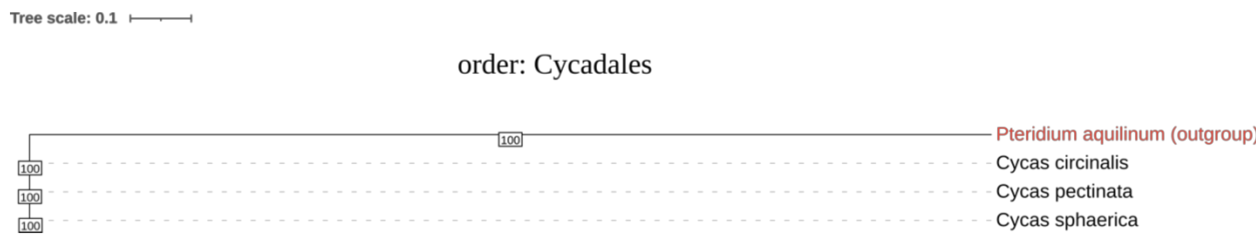
Appendix 33: Comparison between the phylograms constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) generated through the Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency) and a phylogram made from Open Tree of Life version 9.1 (GBOTB) tree using V.PhyloMaker package for the order Malpighiales (Jin & Qian, 2022; Smith & Brown, 2018). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



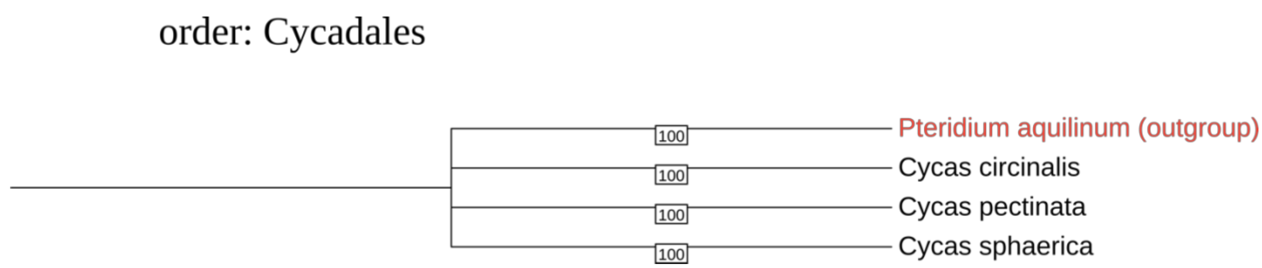
Appendix 34: Comparison between the phylograms constructed using the nuclear gene region (*ITS*) generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency) and a phylogram made from Open Tree of Life version 9.1 (GBOTB) tree using V.PhyloMaker package for the order Malpighiales (Jin & Qian, 2022; Smith & Brown, 2018). The taxa present in both phylogenetic trees are joined using a faint blue line to tell the similarity or the difference between the inferences. The taxa for which the blue lines are not emerging indicate that the respective taxa were not present in one of the other phylogenetic trees.



Appendix A35: Phylogenetic tree as a (a) phylogram (b) cladogram constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) of the order Cycadales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency) where the branch labels are the posterior probabilities (PP) for each branch.

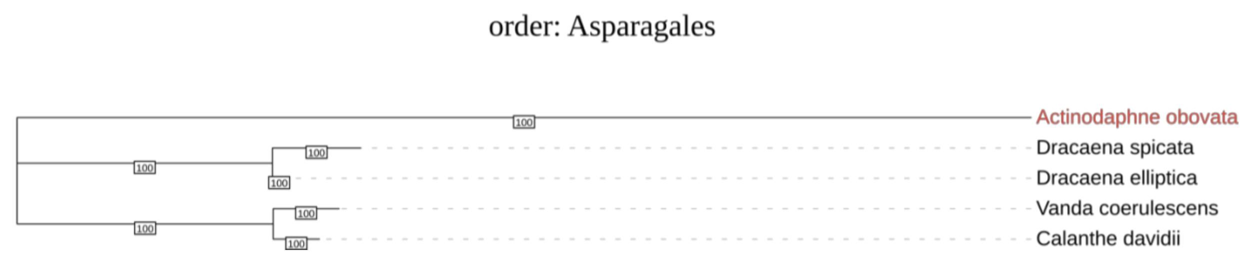


(a)

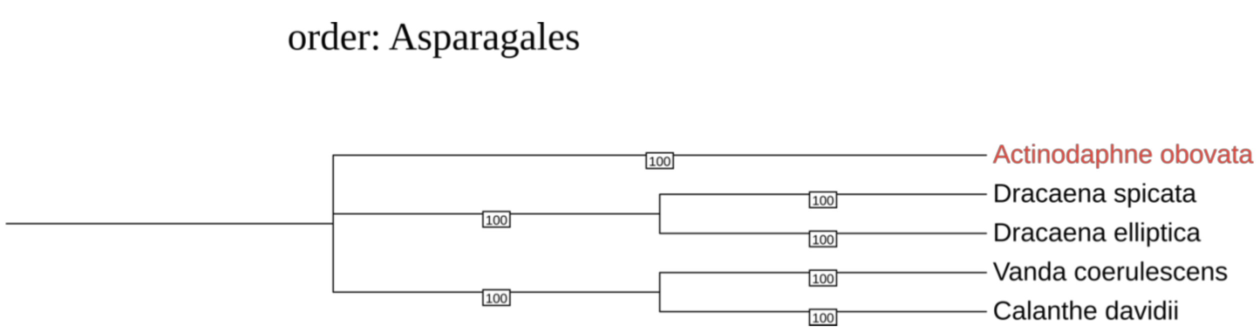


(b)

Appendix A36: Phylogenetic tree as a (a) phylogram (b) cladogram constructed using the chloroplast genes - left (*rbcL, matK, psbA-trnH*) of the order Asparagales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency) where the branch labels are the posterior probabilities (PP) for each branch.

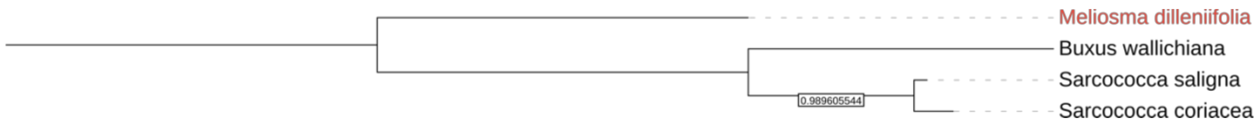


(a)

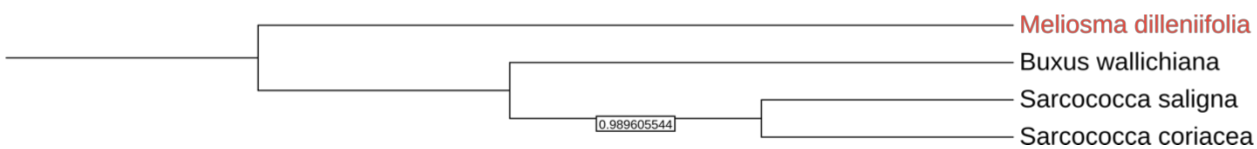


(b)

Appendix A37: Phylogenetic tree as a (a) phylogram (b) cladogram constructed using the nuclear genes (*ITS)* of the order Buxales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency) where the branch labels are the posterior probabilities (PP) for each branch.

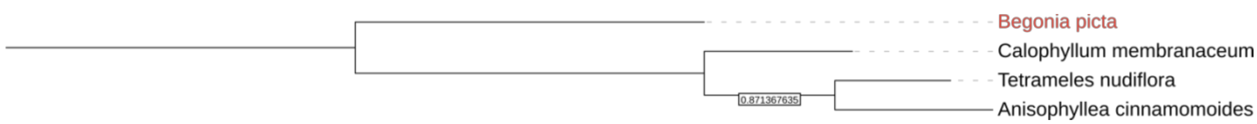


(a)

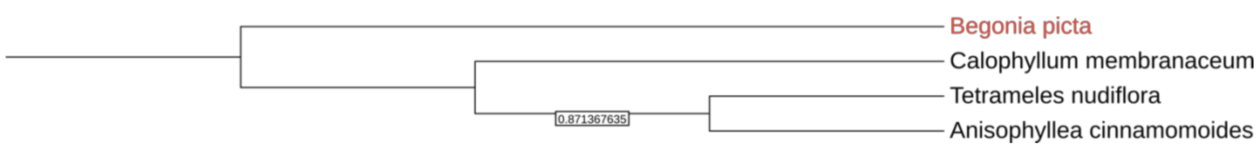


(b)

Appendix A38: Phylogenetic tree as a (a) phylogram (b) cladogram constructed using the nuclear genes (*ITS)* of the order Cucurbitales, generated through Bayesian Inference method of phylogenetic construction (run for 5 million generations for 1000 sample frequency) where the branch labels are the posterior probabilities (PP) for each branch.

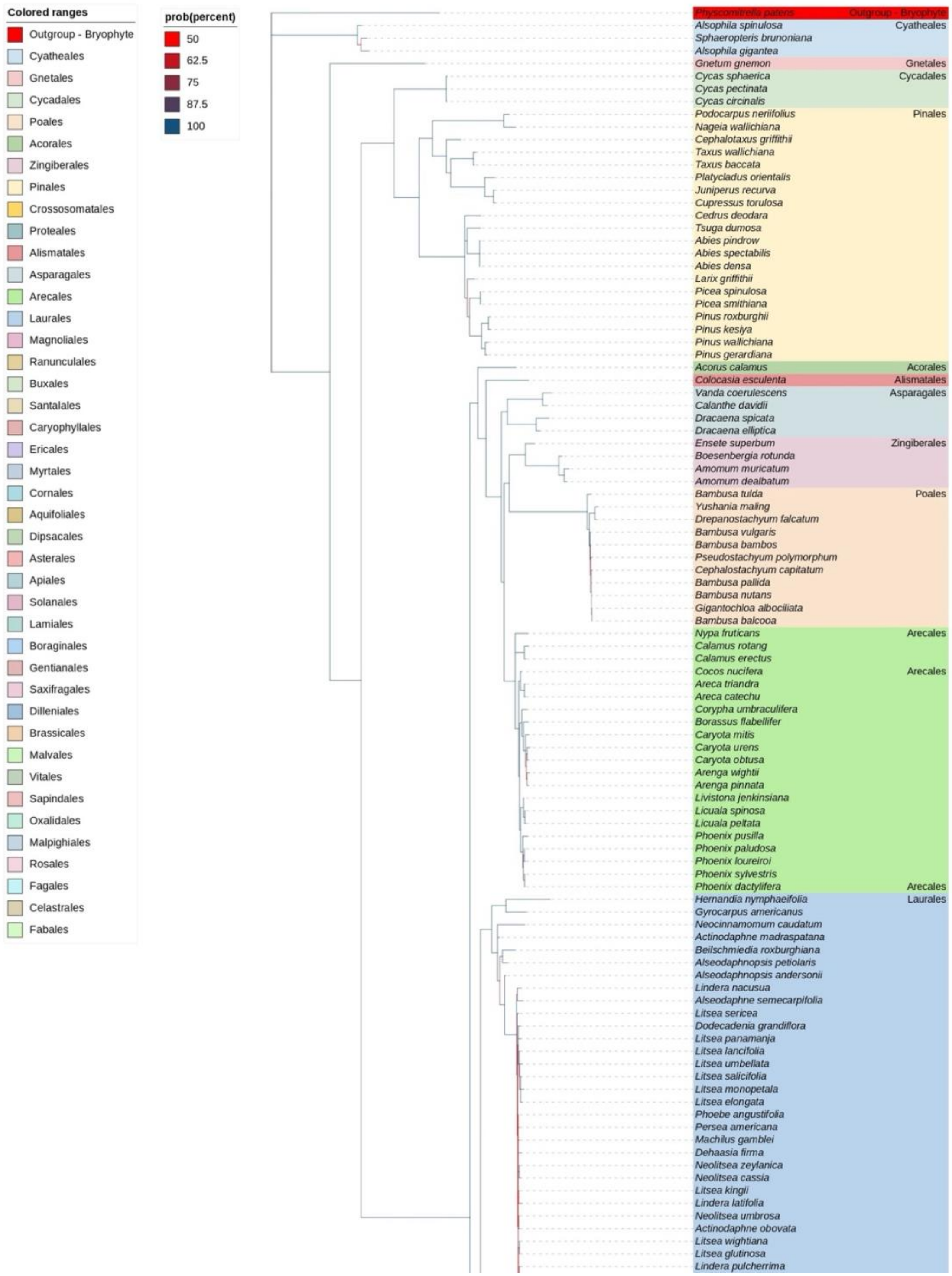


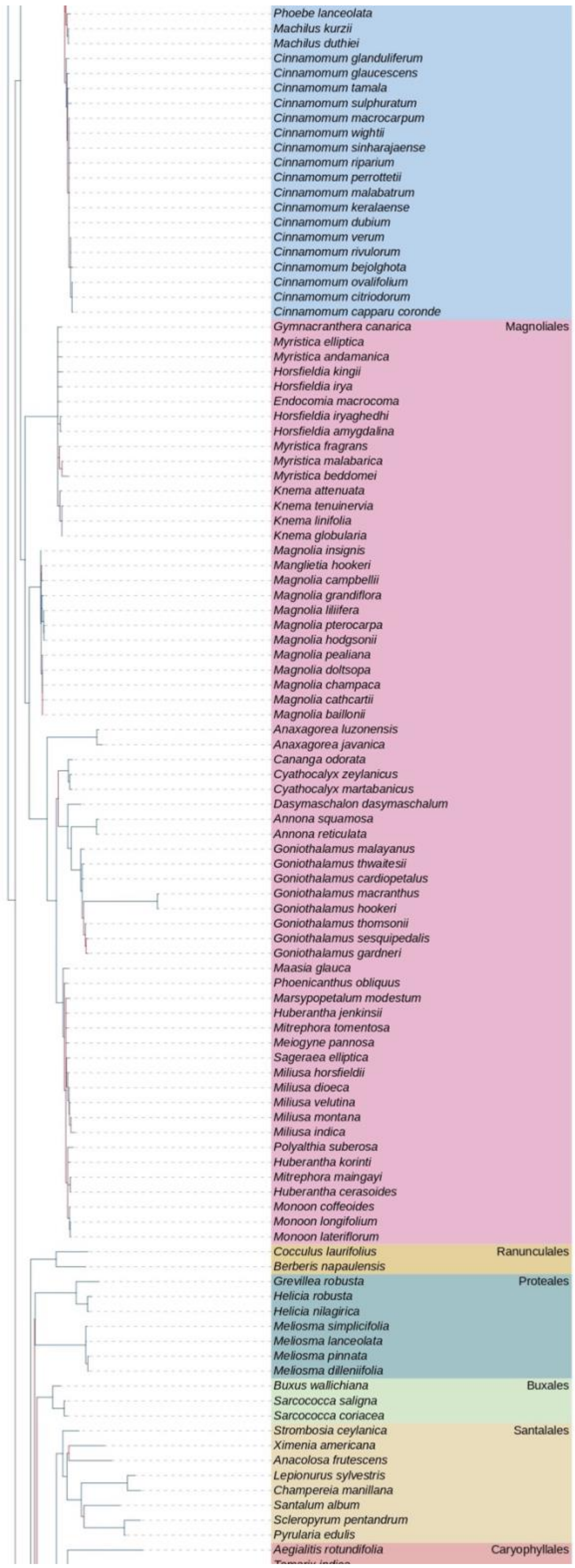
(a)

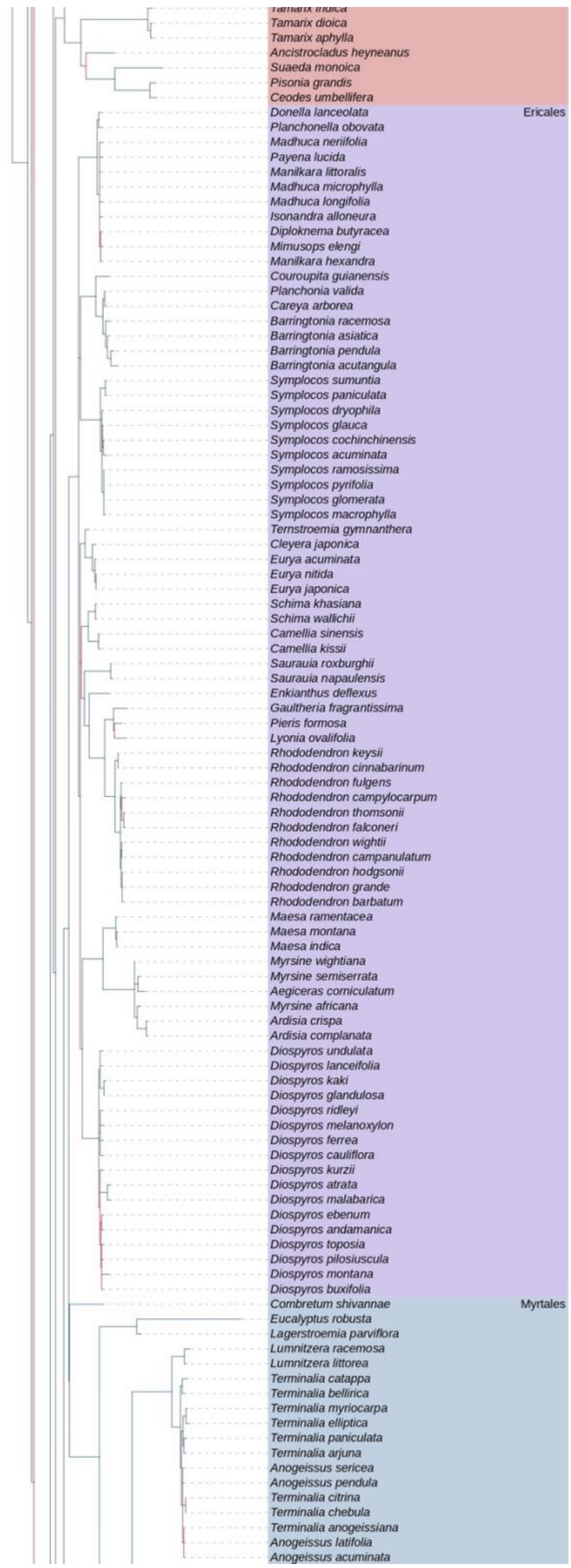


(b)

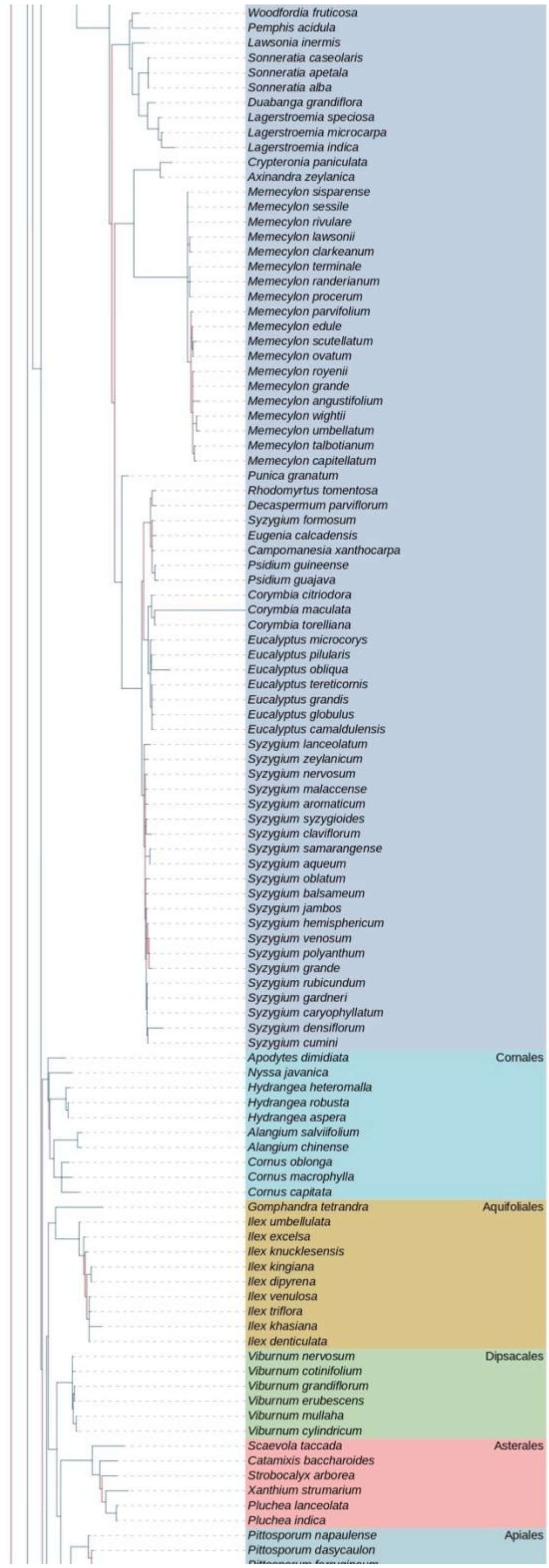
Appendix A39: Rectangular view of the phylogenetic tree of woody plant species of India and Sri Lanka formed using Bayesian Inference of 3 chloroplast genes (*rbcL*, *matK* and *psbA-trnH*) where concatenation of *trnH* is performed one by one per order. The circular topology phylogeny is made in iToL (Interactive Tree of Life) online software, and it depicts orders of various colours on the tips, formed with the backbone tree of the Angiosperm Phylogeny Group (APG III) with the estimation of posterior probability as a measure of phylogenetic robustness of branches in the form of a range of red and blue colours on the branches (presented in the label) (Letunic & Bork, 2006; Angiosperm Phylogeny Group, 2009).


Colored ranges
Outgroup - Bryophyte
Cyatheales
Gnetales
Cycadales
Poales
Acorales
Zingiberales
Pinales
Crossosomatales
Proteales
Alismatales
Asparagales
Arecales
Laurales
Magnoliales
Ranunculales
Buxales
Santalales
Caryophyllales
Ericales
Myrtales
Cornales
Aquifoliales
Dipsacales
Asterales
Apiales
Solanales
Lamiales
Boraginales
Gentianales
Saxifragales
Dilleniales
Brassicales
Malvales
Vitales
Sapindales
Oxalidales
Malpighiales
Rosales
Fagales
Celastrales
Fabales
prob(percent)
50
62.5
75
87.5
100
Physcomitrella patens
Outgroup - Bryophyte
Alsophila spinulosa
Cyatheales
Sphaeropteris brunoniana
Alsophila gigantea
Gnetum gnemon
Gnetales
Cycas sphaerica
Cycadales
Cycas pectinata
Cycas circinalis
Podocarpus neriifolius
Pinales
Nageia wallichiana
Cephalotaxus griffithii
Taxus wallichiana
Taxus baccata
Platycladus orientalis
Juniperus recurva
Cupressus torulosa
Cedrus deodara
Tsuga dumosa
Abies pindrow
Abies spectabilis
Abies densa
Larix griffithii
Picea spinulosa
Picea smithiana
Pinus roxburghii
Pinus kesiya
Pinus wallichiana
Pinus gerardiana
Acorus calamus
Acorales
Colocasia esculenta
Alismatales
Vanda coerulescens
Asparagales
Calanthe davidii
Dracaena spicata
Dracaena elliptica
Ensete superbum
Zingiberales
Boesenbergia rotunda
Amomum muricatum
Amomum dealbatum
Bambusa tulda
Poales
Yushania maling
Drepanostachyum falcatum
Bambusa vulgaris
Bambusa bambos
Pseudostachyum polymorphum
Cephalostachyum capitatum
Bambusa pallida
Bambusa nutans
Gigantochloa albociliata
Bambusa balcooa
Nypa fruticans
Arecales
Calamus rotang
Calamus erectus
Cocos nucifera
Arecales
Areca triandra
Areca catechu
Corypha umbraculifera
Borassus flabellifer
Caryota mitis
Caryota urens
Caryota obtusa
Arenga wightii
Arenga pinnata
Livistona jenkinsiana
Licuala spinosa
Licuala peltata
Phoenix pusilla
Phoenix paludosa
Phoenix loureiroi
Phoenix sylvestris
Phoenix dactylifera
Arecales
Hernandia nymphaeifolia
Laurales
Gyrocarpus americanus
Neocinnamomum caudatum
Actinodaphne madraspatana
Beilschmiedia roxburghiana
Alseodaphnopsis petiolaris
Alseodaphnopsis andersonii
Lindera nacusua
Alseodaphne semecarpifolia
Litsea sericea
Dodecadenia grandiflora
Litsea panamanja
Litsea lancifolia
Litsea umbellata
Litsea salicifolia
Litsea monopetala
Litsea elongata
Phoebe angustifolia
Persea americana
Machilus gamblei
Dehaasia firma
Neolitsea zeylanica
Neolitsea cassia
Litsea kingii
Lindera latifolia
Neolitsea umbrosa
Actinodaphne obovata
Litsea wightiana
Litsea glutinosa
Lindera pulcherrima

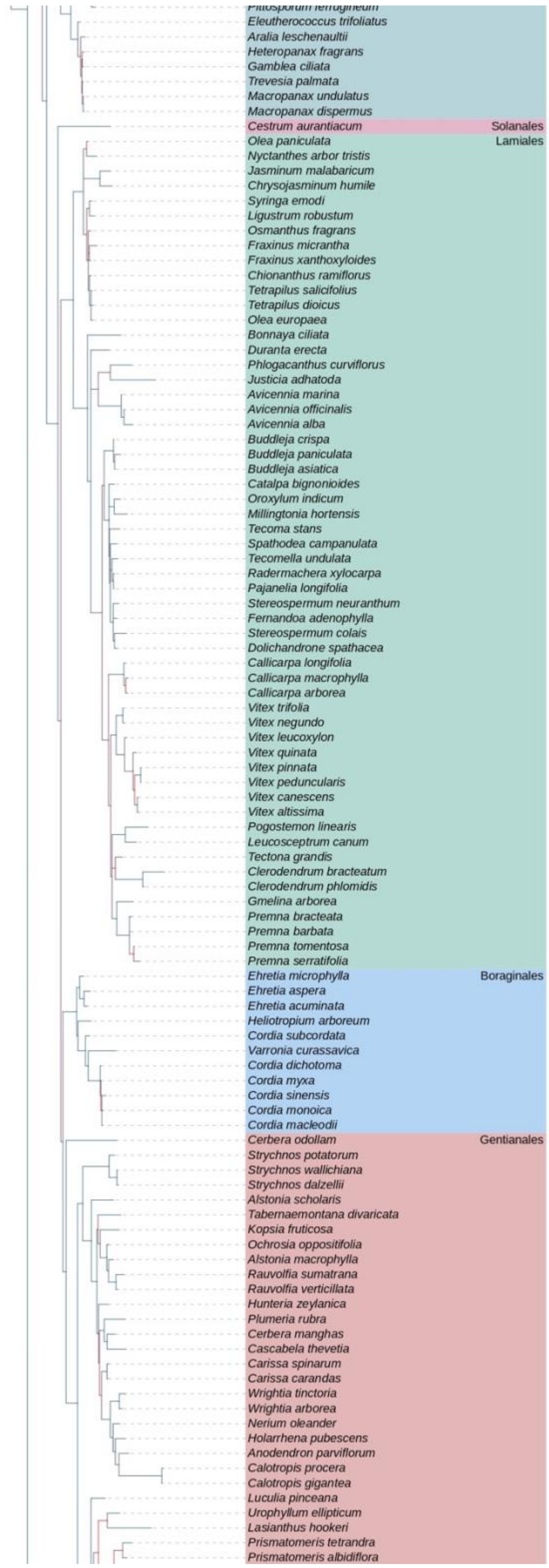

Phoebe lanceolata
Machilus kurzii
Machilus duthiei
Cinnamomum glanduliferum
Cinnamomum glaucescens
Cinnamomum tamala
Cinnamomum sulphuratum
Cinnamomum macrocarpum
Cinnamomum wightii
Cinnamomum sinharajaense
Cinnamomum riparium
Cinnamomum perrottetii
Cinnamomum malabatrum
Cinnamomum keralaense
Cinnamomum dubium
Cinnamomum verum
Cinnamomum rivulorum
Cinnamomum bejolghota
Cinnamomum ovalifolium
Cinnamomum citriodorum
Cinnamomum capparu coronde
Gymnacranthera canarica
Magnoliales
Myristica elliptica
Myristica andamanica
Horsfieldia kingii
Horsfieldia irya
Endocomia macrocoma
Horsfieldia iryaghedhi
Horsfieldia amygdalina
Myristica fragrans
Myristica malabarica
Myristica beddomei
Knema attenuata
Knema tenuinervia
Knema linifolia
Knema globularia
Magnolia insignis
Manglietia hookeri
Magnolia campbellii
Magnolia grandiflora
Magnolia liliifera
Magnolia pterocarpa
Magnolia hodgsonii
Magnolia pealiana
Magnolia doltsopa
Magnolia champaca
Magnolia cathcartii
Magnolia baillonii
Anaxagorea luzonensis
Anaxagorea javanica
Cananga odorata
Cyathocalyx zeylanicus
Cyathocalyx martabanicus
Dasymaschalon dasymaschalum
Annona squamosa
Annona reticulata
Goniothalamus malayanus
Goniothalamus thwaitesii
Goniothalamus cardiopetalus
Goniothalamus macranthus
Goniothalamus hookeri
Goniothalamus thomsonii
Goniothalamus sesquipedalis
Goniothalamus gardneri
Maasia glauca
Phoenicanthus obliquus
Marsypopetalum modestum
Huberantha jenkinsii
Mitrephora tomentosa
Meiogyne pannosa
Sageraea elliptica
Miliusa horsfieldii
Miliusa dioeca
Miliusa velutina
Miliusa montana
Miliusa indica
Polyalthia suberosa
Huberantha korinti
Mitrephora maingayi
Huberantha cerasoides
Monoon coffeoides
Monoon longifolium
Monoon lateriflorum
Cocculus laurifolius
Ranunculales
Berberis napaulensis
Grevillea robusta
Proteales
Helicia robusta
Helicia nilagirica
Meliosma simplicifolia
Meliosma lanceolata
Meliosma pinnata
Meliosma dilleniifolia
Buxus wallichiana
Buxales
Sarcococca saligna
Sarcococca coriacea
Strombosia ceylanica
Santalales
Ximenia americana
Anacolosa frutescens
Lepionurus sylvestris
Champereia manillana
Santalum album
Scleropyrum pentandrum
Pyrularia edulis
Aegialitis rotundifolia
Caryophyllales



Tamarix dioica
Tamarix aphylla
Ancistrocladus heyneanus
Suaeda monoica
Pisonia grandis
Ceodes umbellifera
Ericales
Donella lanceolata
Planchonella obovata
Madhuca neriifolia
Payena lucida
Manilkara littoralis
Madhuca microphylla
Madhuca longifolia
Isonandra alloneura
Diploknema butyracea
Mimusops elengi
Manilkara hexandra
Couroupita guianensis
Planchonia valida
Careya arborea
Barringtonia racemosa
Barringtonia asiatica
Barringtonia pendula
Barringtonia acutangula
Symplocos sumuntia
Symplocos paniculata
Symplocos dryophila
Symplocos glauca
Symplocos cochinchinensis
Symplocos acuminata
Symplocos ramosissima
Symplocos pyrifolia
Symplocos glomerata
Symplocos macrophylla
Ternstroemia gymnanthera
Cleyera japonica
Eurya acuminata
Eurya nitida
Eurya japonica
Schima khasiana
Schima wallichii
Camellia sinensis
Camellia kissii
Saurauia roxburghii
Saurauia napaulensis
Enkianthus deflexus
Gaultheria fragrantissima
Pieris formosa
Lyonia ovalifolia
Rhododendron keysii
Rhododendron cinnabarinum
Rhododendron fulgens
Rhododendron campylocarpum
Rhododendron thomsonii
Rhododendron falconeri
Rhododendron wightii
Rhododendron campanulatum
Rhododendron hodgsonii
Rhododendron grande
Rhododendron barbatum
Maesa ramentacea
Maesa montana
Maesa indica
Myrsine wightiana
Myrsine semiserrata
Aegiceras corniculatum
Myrsine africana
Ardisia crispa
Ardisia complanata
Diospyros undulata
Diospyros lanceifolia
Diospyros kaki
Diospyros glandulosa
Diospyros ridleyi
Diospyros melanoxylon
Diospyros ferrea
Diospyros cauliflora
Diospyros kurzii
Diospyros atrata
Diospyros malabarica
Diospyros ebenum
Diospyros andamanica
Diospyros toposia
Diospyros pilosiuscula
Diospyros montana
Diospyros buxifolia
Myrtales
Combretum shivannae
Eucalyptus robusta
Lagerstroemia parviflora
Lumnitzera racemosa
Lumnitzera littorea
Terminalia catappa
Terminalia bellirica
Terminalia myriocarpa
Terminalia elliptica
Terminalia paniculata
Terminalia arjuna
Anogeissus sericea
Anogeissus pendula
Terminalia citrina
Terminalia chebula
Terminalia anogeissiana
Anogeissus latifolia
Anogeissus acuminata



Woodfordia fruticosa
Pemphis acidula
Lawsonia inermis
Sonneratia caseolaris
Sonneratia apetala
Sonneratia alba
Duabanga grandiflora
Lagerstroemia speciosa
Lagerstroemia microcarpa
Lagerstroemia indica
Crypteronia paniculata
Axinandra zeylanica
Memecylon sisparense
Memecylon sessile
Memecylon rivulare
Memecylon lawsonii
Memecylon clarkeanum
Memecylon terminale
Memecylon randerianum
Memecylon procerum
Memecylon parvifolium
Memecylon edule
Memecylon scutellatum
Memecylon ovatum
Memecylon royenii
Memecylon grande
Memecylon angustifolium
Memecylon wightii
Memecylon umbellatum
Memecylon talbotianum
Memecylon capitellatum
Punica granatum
Rhodomyrtus tomentosa
Decaspermum parviflorum
Syzygium formosum
Eugenia calcadensis
Campomanesia xanthocarpa
Psidium guineense
Psidium guajava
Corymbia citriodora
Corymbia maculata
Corymbia torelliana
Eucalyptus microcorys
Eucalyptus pilularis
Eucalyptus obliqua
Eucalyptus tereticornis
Eucalyptus grandis
Eucalyptus globulus
Eucalyptus camaldulensis
Syzygium lanceolatum
Syzygium zeylanicum
Syzygium nervosum
Syzygium malaccense
Syzygium aromaticum
Syzygium syzygioides
Syzygium claviflorum
Syzygium samarangense
Syzygium aqueum
Syzygium oblatum
Syzygium balsameum
Syzygium jambos
Syzygium hemisphericum
Syzygium venosum
Syzygium polyanthum
Syzygium grande
Syzygium rubicundum
Syzygium gardneri
Syzygium caryophyllatum
Syzygium densiflorum
Syzygium cumini
Apodytes dimidiata
Cornales
Nyssa javanica
Hydrangea heteromalla
Hydrangea robusta
Hydrangea aspera
Alangium salviifolium
Alangium chinense
Cornus oblonga
Cornus macrophylla
Cornus capitata
Gomphandra tetrandra
Aquifoliales
Ilex umbellulata
Ilex excelsa
Ilex knucklesensis
Ilex kingiana
Ilex dipyrena
Ilex venulosa
Ilex triflora
Ilex khasiana
Ilex denticulata
Viburnum nervosum
Dipsacales
Viburnum cotinifolium
Viburnum grandiflorum
Viburnum erubescens
Viburnum mullaha
Viburnum cylindricum
Scaevola taccada
Asterales
Catamixis baccharoides
Strobocalyx arborea
Xanthium strumarium
Pluchea lanceolata
Pluchea indica
Pittosporum napaulense
Apiales
Pittosporum dasycaulon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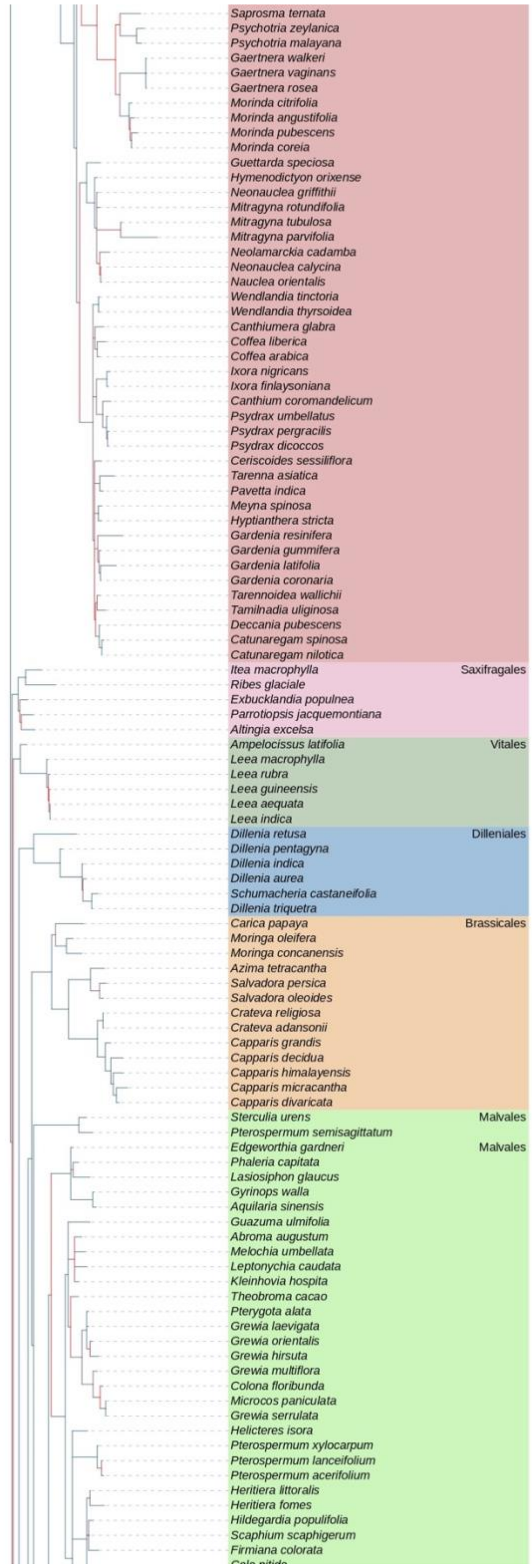
Aralia leschenaultii
Heteropanax fragrans
Gamblea ciliata
Trevesia palmata
Macropanax undulatus
Macropanax dispermus
Cestrum aurantiacum
Solanales
Olea paniculata
Lamiales
Nyctanthes arbor tristis
Jasminum malabaricum
Chrysojasminum humile
Syringa emodi
Ligustrum robustum
Osmanthus fragrans
Fraxinus micrantha
Fraxinus xanthoxyloides
Chionanthus ramiflorus
Tetrapilus salicifolius
Tetrapilus dioicus
Olea europaea
Bonnaya ciliata
Duranta erecta
Phlogacanthus curviflorus
Justicia adhatoda
Avicennia marina
Avicennia officinalis
Avicennia alba
Buddleja crispa
Buddleja paniculata
Buddleja asiatica
Catalpa bignonioides
Oroxylum indicum
Millingtonia hortensis
Tecoma stans
Spathodea campanulata
Tecomella undulata
Radermachera xylocarpa
Pajanelia longifolia
Stereospermum neuranthum
Fernandoa adenophylla
Stereospermum colais
Dolichandrone spathacea
Callicarpa longifolia
Callicarpa macrophylla
Callicarpa arborea
Vitex trifolia
Vitex negundo
Vitex leucoxylon
Vitex quinata
Vitex pinnata
Vitex peduncularis
Vitex canescens
Vitex altissima
Pogostemon linearis
Leucosceptrum canum
Tectona grandis
Clerodendrum bracteatum
Clerodendrum phlomidis
Gmelina arborea
Premna bracteata
Premna barbata
Premna tomentosa
Premna serratifolia
Ehretia microphylla
Boraginales
Ehretia aspera
Ehretia acuminata
Heliotropium arboreum
Cordia subcordata
Varronia curassavica
Cordia dichotoma
Cordia myxa
Cordia sinensis
Cordia monoica
Cordia macleodii
Cerbera odollam
Gentianales
Strychnos potatorum
Strychnos wallichiana
Strychnos dalzellii
Alstonia scholaris
Tabernaemontana divaricata
Kopsia fruticosa
Ochrosia oppositifolia
Alstonia macrophylla
Rauvolfia sumatrana
Rauvolfia verticillata
Hunteria zeylanica
Plumeria rubra
Cerbera manghas
Cascabela thevetia
Carissa spinarum
Carissa carandas
Wrightia tinctoria
Wrightia arborea
Nerium oleander
Holarrhena pubescens
Anodendron parviflorum
Calotropis procera
Calotropis gigantea
Luculia pinceana
Urophyllum ellipticum
Lasianthus hookeri
Prismatomeris tetrandra
Prismatomeris albidiflora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Psychotria malayana
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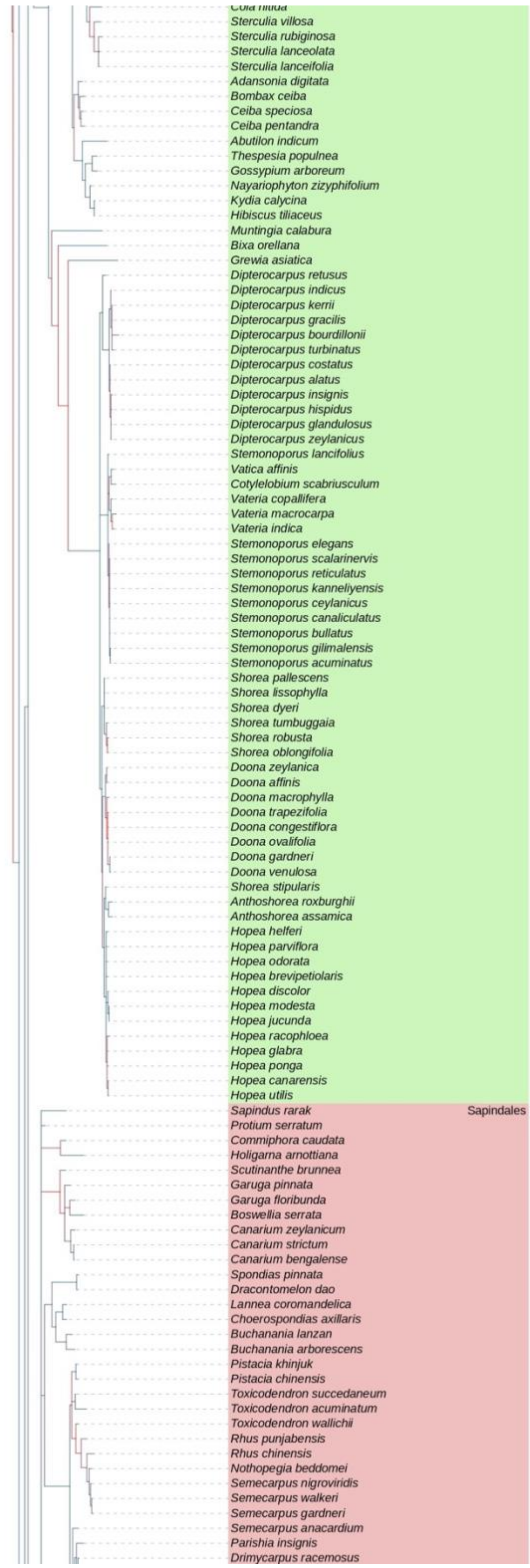
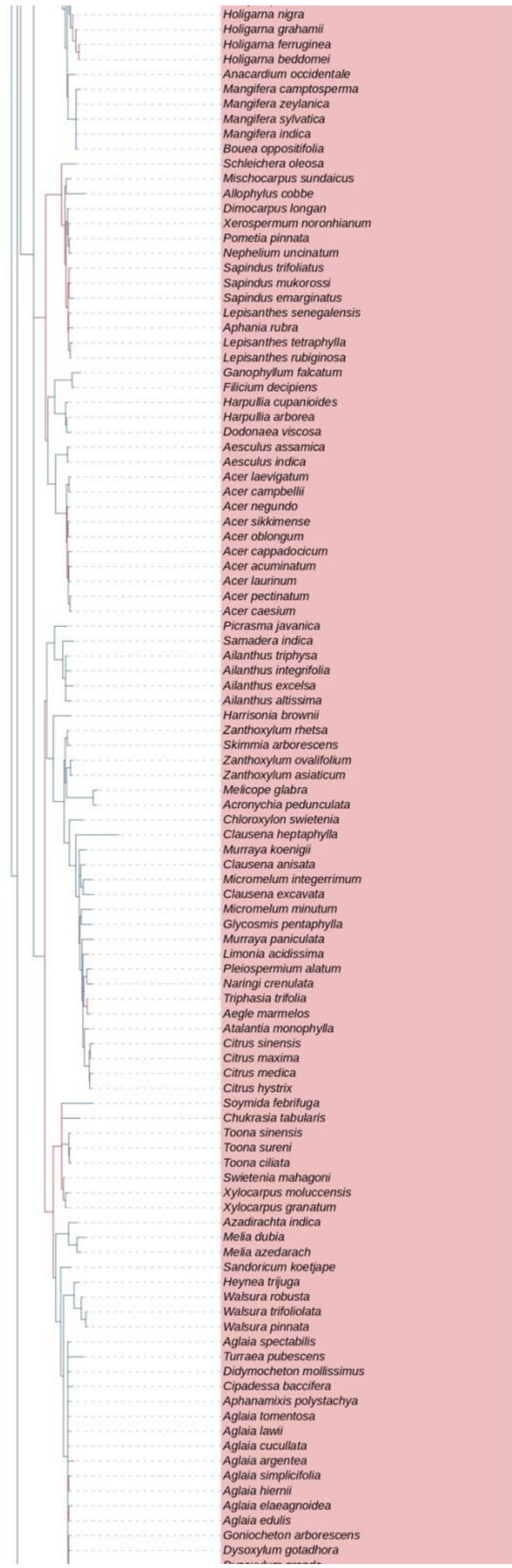
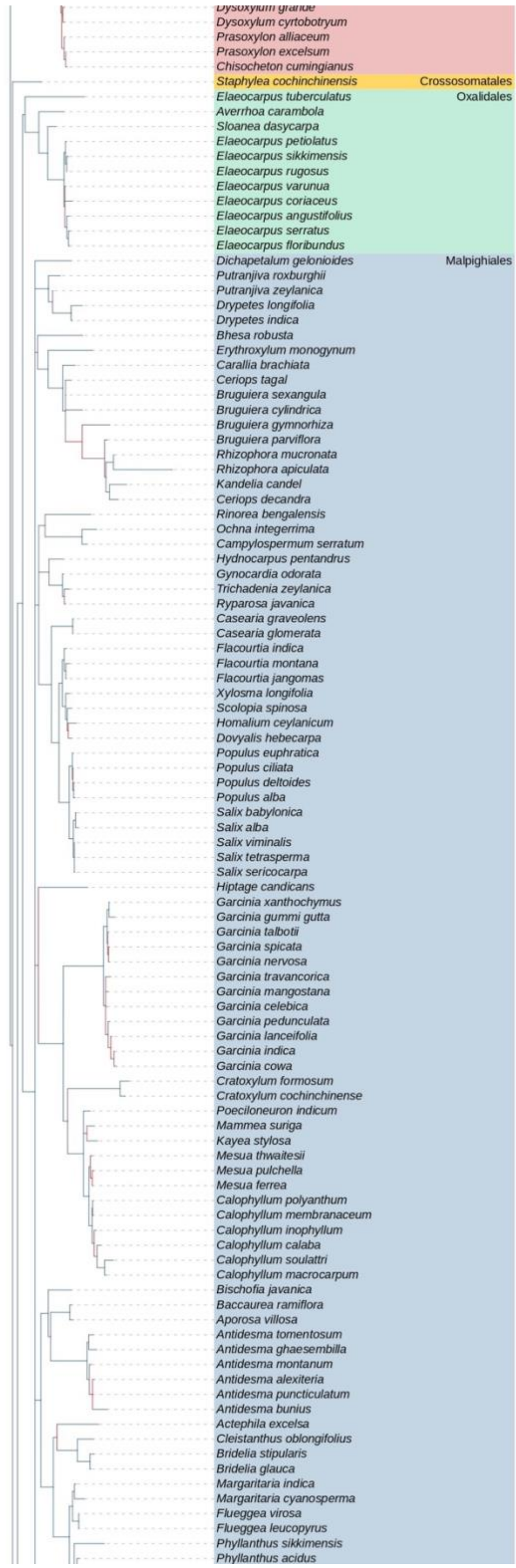
Gaertnera vaginans
Gaertnera rosea
Morinda citrifolia
Morinda angustifolia
Morinda pubescens
Morinda coreia
Guettarda speciosa
Hymenodictyon orixense
Neonauclea griffithii
Mitragyna rotundifolia
Mitragyna tubulosa
Mitragyna parvifolia
Neolamarckia cadamba
Neonauclea calycina
Nauclea orientalis
Wendlandia tinctoria
Wendlandia thyrsoidea
Canthiumera glabra
Coffea liberica
Coffea arabica
Ixora nigricans
Ixora finlaysoniana
Canthium coromandelicum
Psydrax umbellatus
Psydrax pergracilis
Psydrax dicoccos
Ceriscoides sessiliflora
Tarenna asiatica
Pavetta indica
Meyna spinosa
Hyptianthera stricta
Gardenia resinifera
Gardenia gummifera
Gardenia latifolia
Gardenia coronaria
Tarennoidea wallichii
Tamilnadia uliginosa
Deccania pubescens
Catunaregam spinosa
Catunaregam nilotica
Itea macrophylla
Saxifragales
Ribes glaciale
Exbucklandia populnea
Parrotiopsis jacquemontiana
Altingia excelsa
Ampelocissus latifolia
Vitales
Leea macrophylla
Leea rubra
Leea guineensis
Leea aequata
Leea indica
Dillenia retusa
Dilleniales
Dillenia pentagyna
Dillenia indica
Dillenia aurea
Schumacheria castaneifolia
Dillenia triquetra
Carica papaya
Brassicales
Moringa oleifera
Moringa concanensis
Azima tetracantha
Salvadora persica
Salvadora oleoides
Crateva religiosa
Crateva adansonii
Capparis grandis
Capparis decidua
Capparis himalayensis
Capparis micracantha
Capparis divaricata
Sterculia urens
Malvales
Pterospermum semisagittatum
Edgeworthia gardneri
Malvales
Phaleria capitata
Lasiosiphon glaucus
Gyrinops walla
Aquilaria sinensis
Guazuma ulmifolia
Abroma augustum
Melochia umbellata
Leptonychia caudata
Kleinhovia hospita
Theobroma cacao
Pterygota alata
Grewia laevigata
Grewia orientalis
Grewia hirsuta
Grewia multiflora
Colona floribunda
Microcos paniculata
Grewia serrulata
Helicteres isora
Pterospermum xylocarpum
Pterospermum lanceifolium
Pterospermum acerifolium
Heritiera littoralis
Heritiera fomes
Hildegardia populifolia
Scaphium scaphigerum
Firmiana colorata


Cola nitida
Sterculia villosa
Sterculia rubiginosa
Sterculia lanceolata
Sterculia lanceifolia
Adansonia digitata
Bombax ceiba
Ceiba speciosa
Ceiba pentandra
Abutilon indicum
Thespesia populnea
Gossypium arboreum
Nayariophyton zizyphifolium
Kydia calycina
Hibiscus tiliaceus
Muntingia calabura
Bixa orellana
Grewia asiatica
Dipterocarpus retusus
Dipterocarpus indicus
Dipterocarpus kerrii
Dipterocarpus gracilis
Dipterocarpus bourdillonii
Dipterocarpus turbinatus
Dipterocarpus costatus
Dipterocarpus alatus
Dipterocarpus insignis
Dipterocarpus hispidus
Dipterocarpus glandulosus
Dipterocarpus zeylanicus
Stemonoporus lancifolius
Vatica affinis
Cotylelobium scabriusculum
Vateria copallifera
Vateria macrocarpa
Vateria indica
Stemonoporus elegans
Stemonoporus scalarinervis
Stemonoporus reticulatus
Stemonoporus kanneliyensis
Stemonoporus ceylanicus
Stemonoporus canaliculatus
Stemonoporus bullatus
Stemonoporus gilimalensis
Stemonoporus acuminatus
Shorea pallescens
Shorea lissophylla
Shorea dyeri
Shorea tumbuggaia
Shorea robusta
Shorea oblongifolia
Doona zeylanica
Doona affinis
Doona macrophylla
Doona trapezifolia
Doona congestiflora
Doona ovalifolia
Doona gardneri
Doona venulosa
Shorea stipularis
Anthoshorea roxburghii
Anthoshorea assamica
Hopea helferi
Hopea parviflora
Hopea odorata
Hopea brevipetiolaris
Hopea discolor
Hopea modesta
Hopea jucunda
Hopea racophloea
Hopea glabra
Hopea ponga
Hopea canarensis
Hopea utilis
Sapindus rarak
Sapindales
Protium serratum
Commiphora caudata
Holigarna arnottiana
Scutinanthe brunnea
Garuga pinnata
Garuga floribunda
Boswellia serrata
Canarium zeylanicum
Canarium strictum
Canarium bengalense
Spondias pinnata
Dracontomelon dao
Lannea coromandelica
Choerospondias axillaris
Buchanania lanzan
Buchanania arborescens
Pistacia khinjuk
Pistacia chinensis
Toxicodendron succedaneum
Toxicodendron acuminatum
Toxicodendron wallichii
Rhus punjabensis
Rhus chinensis
Nothopegia beddomei
Semecarpus nigroviridis
Semecarpus walkeri
Semecarpus gardneri
Semecarpus anacardium
Parishia insignis
Drimycarpus racemosus



Holigarna nigra
Holigarna grahamii
Holigarna ferruginea
Holigarna beddomei
Anacardium occidentale
Mangifera camptosperma
Mangifera zeylanica
Mangifera sylvatica
Mangifera indica
Bouea oppositifolia
Schleichera oleosa
Mischocarpus sundaicus
Allophylus cobbe
Dimocarpus longan
Xerospermum noronhianum
Pometia pinnata
Nephelium uncinatum
Sapindus trifoliatus
Sapindus mukorossi
Sapindus emarginatus
Lepisanthes senegalensis
Aphania rubra
Lepisanthes tetraphylla
Lepisanthes rubiginosa
Ganophyllum falcatum
Filicium decipiens
Harpullia cupanioides
Harpullia arborea
Dodonaea viscosa
Aesculus assamica
Aesculus indica
Acer laevigatum
Acer campbellii
Acer negundo
Acer sikkimense
Acer oblongum
Acer cappadocicum
Acer acuminatum
Acer laurinum
Acer pectinatum
Acer caesium
Picrasma javanica
Samadera indica
Ailanthus triphysa
Ailanthus integrifolia
Ailanthus excelsa
Ailanthus altissima
Harrisonia brownii
Zanthoxylum rhetsa
Skimmia arborescens
Zanthoxylum ovalifolium
Zanthoxylum asiaticum
Melicope glabra
Acronychia pedunculata
Chloroxylon swietenia
Clausena heptaphylla
Murraya koenigii
Clausena anisata
Micromelum integerrimum
Clausena excavata
Micromelum minutum
Glycosmis pentaphylla
Murraya paniculata
Limonia acidissima
Pleiospermium alatum
Naringi crenulata
Triphasia trifolia
Aegle marmelos
Atalantia monophylla
Citrus sinensis
Citrus maxima
Citrus medica
Citrus hystrix
Soymida febrifuga
Chukrasia tabularis
Toona sinensis
Toona sureni
Toona ciliata
Swietenia mahagoni
Xylocarpus moluccensis
Xylocarpus granatum
Azadirachta indica
Melia dubia
Melia azedarach
Sandoricum koetjape
Heynea trijuga
Walsura robusta
Walsura trifoliolata
Walsura pinnata
Aglaia spectabilis
Turraea pubescens
Didymocheton mollissimus
Cipadessa baccifera
Aphanamixis polystachya
Aglaia tomentosa
Aglaia lawii
Aglaia cucullata
Aglaia argentea
Aglaia simplicifolia
Aglaia hiernii
Aglaia elaeagnoidea
Aglaia edulis
Goniocheton arborescens
Dysoxylum gotadhora


Dysoxylum grande
Dysoxylum cyrtobotryum
Prasoxylon alliaceum
Prasoxylon excelsum
Chisocheton cumingianus
Staphylea cochinchinensis
Crossosomatales
Elaeocarpus tuberculatus
Oxalidales
Averrhoa carambola
Sloanea dasycarpa
Elaeocarpus petiolatus
Elaeocarpus sikkimensis
Elaeocarpus rugosus
Elaeocarpus varunua
Elaeocarpus coriaceus
Elaeocarpus angustifolius
Elaeocarpus serratus
Elaeocarpus floribundus
Dichapetalum gelonioides
Malpighiales
Putranjiva roxburghii
Putranjiva zeylanica
Drypetes longifolia
Drypetes indica
Bhesa robusta
Erythroxylum monogynum
Carallia brachiata
Ceriops tagal
Bruguiera sexangula
Bruguiera cylindrica
Bruguiera gymnorhiza
Bruguiera parviflora
Rhizophora mucronata
Rhizophora apiculata
Kandelia candel
Ceriops decandra
Rinorea bengalensis
Ochna integerrima
Campylospermum serratum
Hydnocarpus pentandrus
Gynocardia odorata
Trichadenia zeylanica
Ryparosa javanica
Casearia graveolens
Casearia glomerata
Flacourtia indica
Flacourtia montana
Flacourtia jangomas
Xylosma longifolia
Scolopia spinosa
Homalium ceylanicum
Dovyalis hebecarpa
Populus euphratica
Populus ciliata
Populus deltoides
Populus alba
Salix babylonica
Salix alba
Salix viminalis
Salix tetrasperma
Salix sericocarpa
Hiptage candicans
Garcinia xanthochymus
Garcinia gummi gutta
Garcinia talbotii
Garcinia spicata
Garcinia nervosa
Garcinia travancorica
Garcinia mangostana
Garcinia celebica
Garcinia pedunculata
Garcinia lanceifolia
Garcinia indica
Garcinia cowa
Cratoxylum formosum
Cratoxylum cochinchinense
Poeciloneuron indicum
Mammea suriga
Kayea stylosa
Mesua thwaitesii
Mesua pulchella
Mesua ferrea
Calophyllum polyanthum
Calophyllum membranaceum
Calophyllum inophyllum
Calophyllum calaba
Calophyllum soulattri
Calophyllum macrocarpum
Bischofia javanica
Baccaurea ramiflora
Aporosa villosa
Antidesma tomentosum
Antidesma ghaesembilla
Antidesma montanum
Antidesma alexiteria
Antidesma puncticulatum
Antidesma bunius
Actephila excelsa
Cleistanthus oblongifolius
Bridelia stipularis
Bridelia glauca
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Margaritaria cyanosperma
Flueggea virosa
Flueggea leucopyrus
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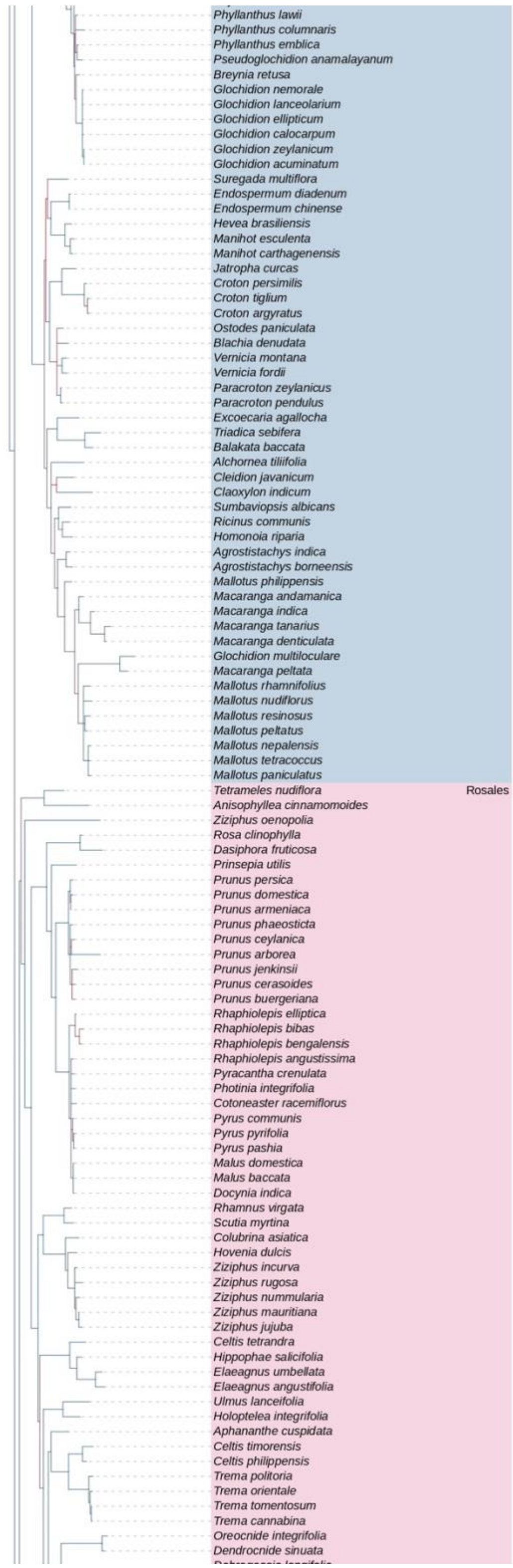
Phyllanthus acidus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Phyllanthus columnaris
Phyllanthus emblica
Pseudoglochidion anamalayanum
Breynia retusa
Glochidion nemorale
Glochidion lanceolarium
Glochidion ellipticum
Glochidion calocarpum
Glochidion zeylanicum
Glochidion acuminatum
Suregada multiflora
Endospermum diadenum
Endospermum chinense
Hevea brasiliensis
Manihot esculenta
Manihot carthagenensis
Jatropha curcas
Croton persimilis
Croton tiglium
Croton argyratus
Ostodes paniculata
Blachia denudata
Vernicia montana
Vernicia fordii
Paracroton zeylanicus
Paracroton pendulus
Excoecaria agallocha
Triadica sebifera
Balakata baccata
Alchornea tiliifolia
Cleidion javanicum
Claoxylon indicum
Sumbaviopsis albicans
Ricinus communis
Homonoia riparia
Agrostistachys indica
Agrostistachys borneensis
Mallotus philippensis
Macaranga andamanica
Macaranga indica
Macaranga tanarius
Macaranga denticulata
Glochidion multiloculare
Macaranga peltata
Mallotus rhamnifolius
Mallotus nudiflorus
Mallotus resinosus
Mallotus peltatus
Mallotus nepalensis
Mallotus tetracoccus
Mallotus paniculatus
Tetrameles nudiflora
Rosales
Anisophyllea cinnamomoides
Ziziphus oenopolia
Rosa clinophylla
Dasiphora fruticosa
Prinsepia utilis
Prunus persica
Prunus domestica
Prunus armeniaca
Prunus phaeosticta
Prunus ceylanica
Prunus arborea
Prunus jenkinsii
Prunus cerasoides
Prunus buergeriana
Rhaphiolepis elliptica
Rhaphiolepis bibas
Rhaphiolepis bengalensis
Rhaphiolepis angustissima
Pyracantha crenulata
Photinia integrifolia
Cotoneaster racemiflorus
Pyrus communis
Pyrus pyrifolia
Pyrus pashia
Malus domestica
Malus baccata
Docynia indica
Rhamnus virgata
Scutia myrtina
Colubrina asiatica
Hovenia dulcis
Ziziphus incurva
Ziziphus rugosa
Ziziphus nummularia
Ziziphus mauritiana
Ziziphus jujuba
Celtis tetrandra
Hippophae salicifolia
Elaeagnus umbellata
Elaeagnus angustifolia
Ulmus lanceifolia
Holoptelea integrifolia
Aphananthe cuspidata
Celtis timorensis
Celtis philippensis
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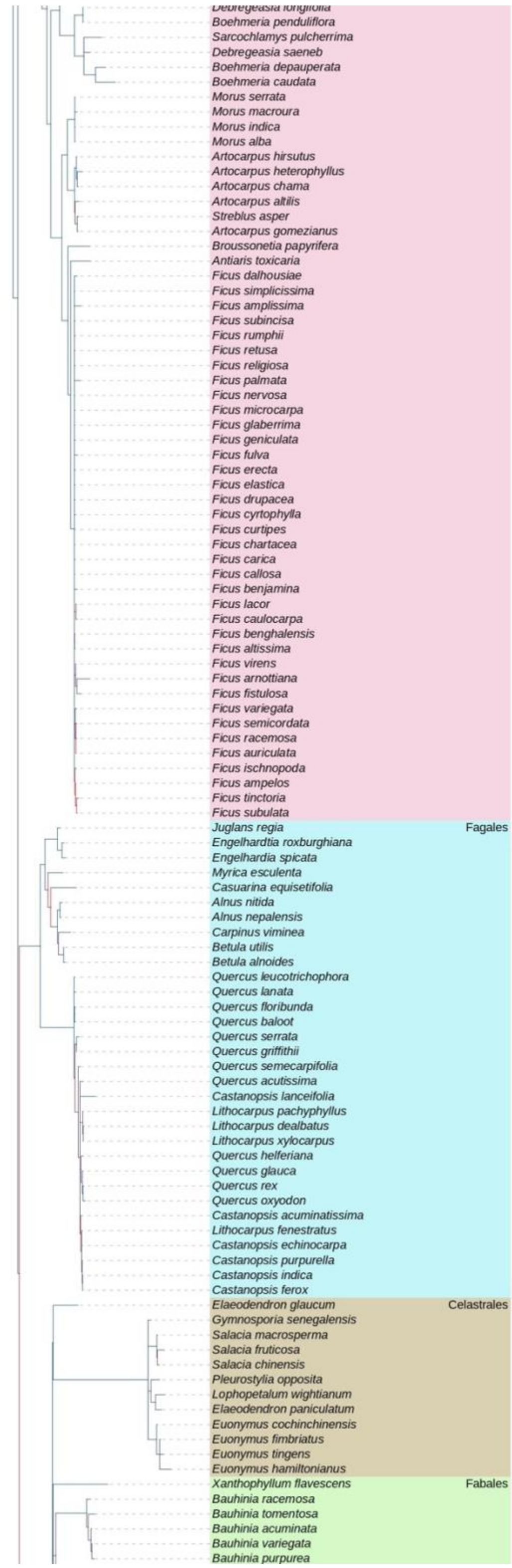
Trema orientale
Trema tomentosum
Trema cannabina
Oreocnide integrifolia
Dendrocnide sinuata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Boehmeria penduliflora
Sarcochlamys pulcherrima
Debregeasia saeneb
Boehmeria depauperata
Boehmeria caudata
Morus serrata
Morus macroura
Morus indica
Morus alba
Artocarpus hirsutus
Artocarpus heterophyllus
Artocarpus chama
Artocarpus altilis
Streblus asper
Artocarpus gomezianus
Broussonetia papyrifera
Antiaris toxicaria
Ficus dalhousiae
Ficus simplicissima
Ficus amplissima
Ficus subincisa
Ficus rumphii
Ficus retusa
Ficus religiosa
Ficus palmata
Ficus nervosa
Ficus microcarpa
Ficus glaberrima
Ficus geniculata
Ficus fulva
Ficus erecta
Ficus elastica
Ficus drupacea
Ficus cyrtophylla
Ficus curtipes
Ficus chartacea
Ficus carica
Ficus callosa
Ficus benjamina
Ficus lacor
Ficus caulocarpa
Ficus benghalensis
Ficus altissima
Ficus virens
Ficus arnottiana
Ficus fistulosa
Ficus variegata
Ficus semicordata
Ficus racemosa
Ficus auriculata
Ficus ischnopoda
Ficus ampelos
Ficus tinctoria
Ficus subulata
Juglans regia
Fagales
Engelhardtia roxburghiana
Engelhardia spicata
Myrica esculenta
Casuarina equisetifolia
Alnus nitida
Alnus nepalensis
Carpinus viminea
Betula utilis
Betula alnoides
Quercus leucotrichophora
Quercus lanata
Quercus floribunda
Quercus baloot
Quercus serrata
Quercus griffithii
Quercus semecarpifolia
Quercus acutissima
Castanopsis lanceifolia
Lithocarpus pachyphyllus
Lithocarpus dealbatus
Lithocarpus xylocarpus
Quercus helferiana
Quercus glauca
Quercus rex
Quercus oxyodon
Castanopsis acuminatissima
Lithocarpus fenestratus
Castanopsis echinocarpa
Castanopsis purpurella
Castanopsis indica
Castanopsis ferox
Elaeodendron glaucum
Celastrales
Gymnosporia senegalensis
Salacia macrosperma
Salacia fruticosa
Salacia chinensis
Pleurostylia opposita
Lophopetalum wightianum
Elaeodendron paniculatum
Euonymus cochinchinensis
Euonymus fimbriatus
Euonymus tingens
Euonymus hamiltonianus
Xanthophyllum flavescens
Fabales
Bauhinia racemosa
Bauhinia tomentosa
Bauhinia acuminata
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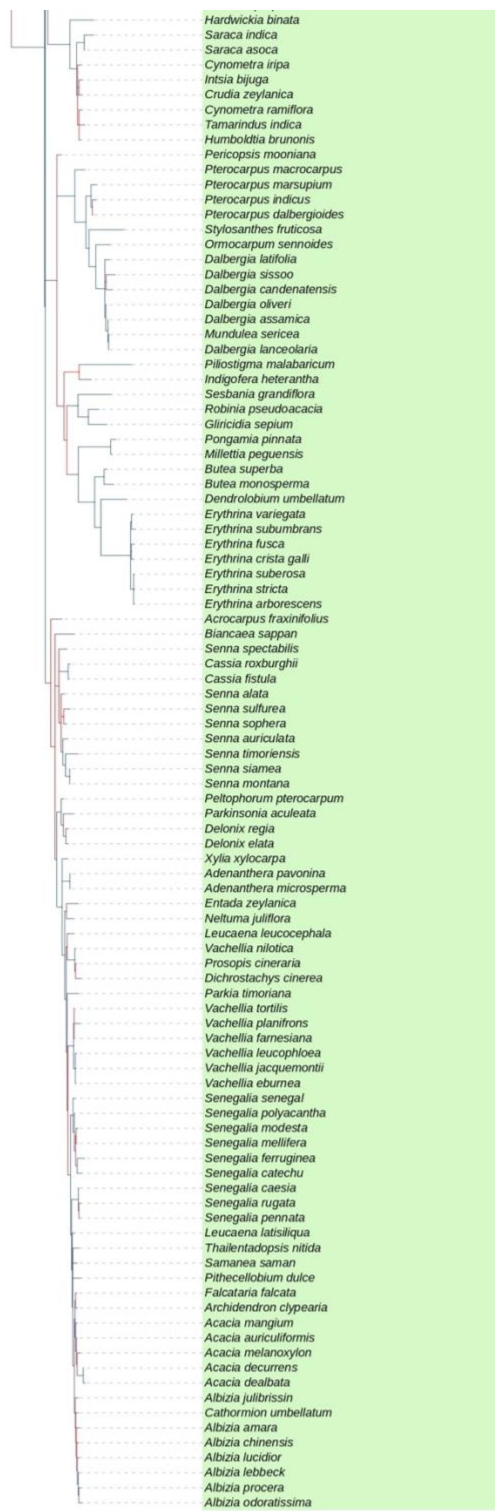
Bauhinia purpurea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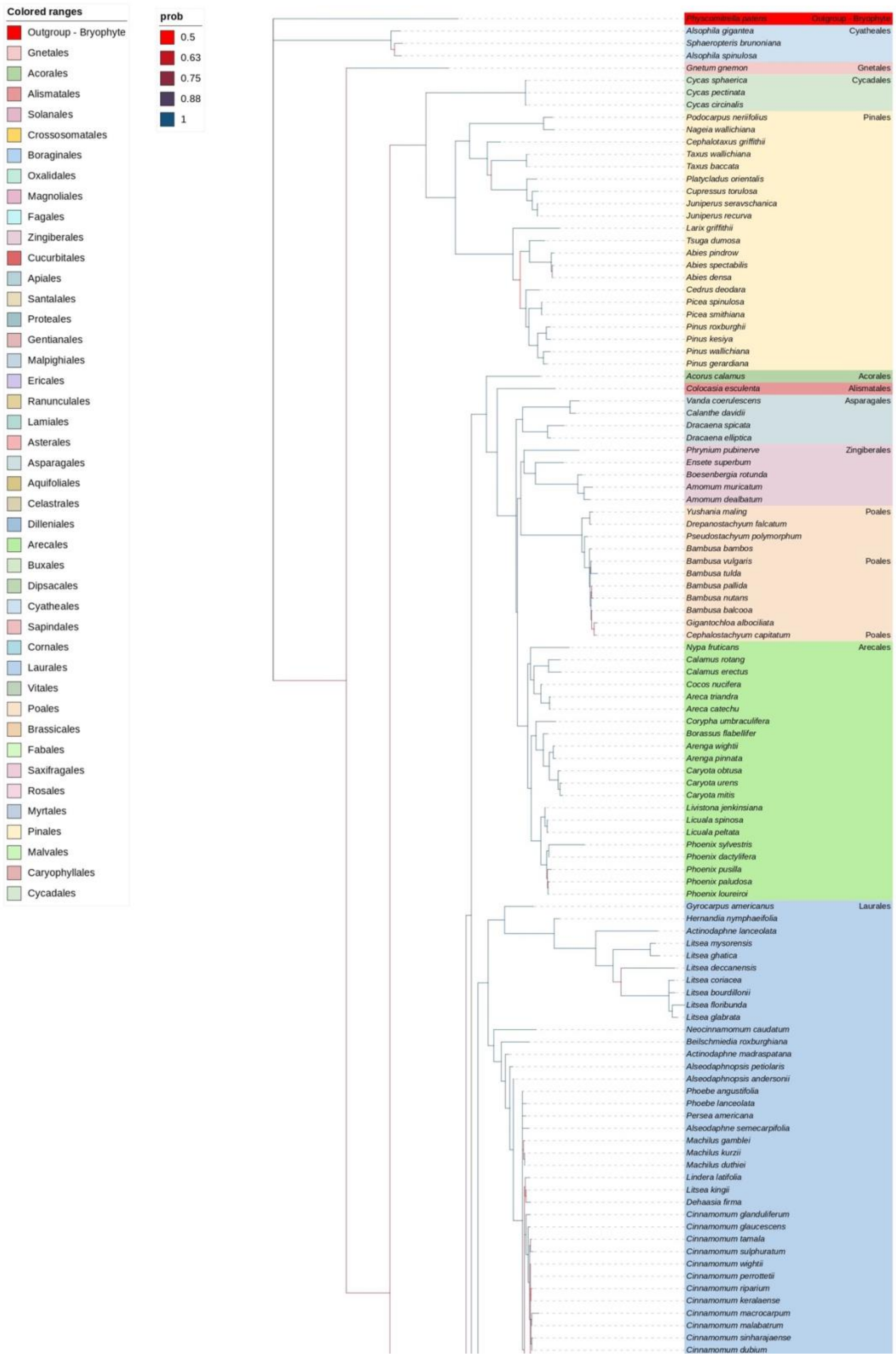
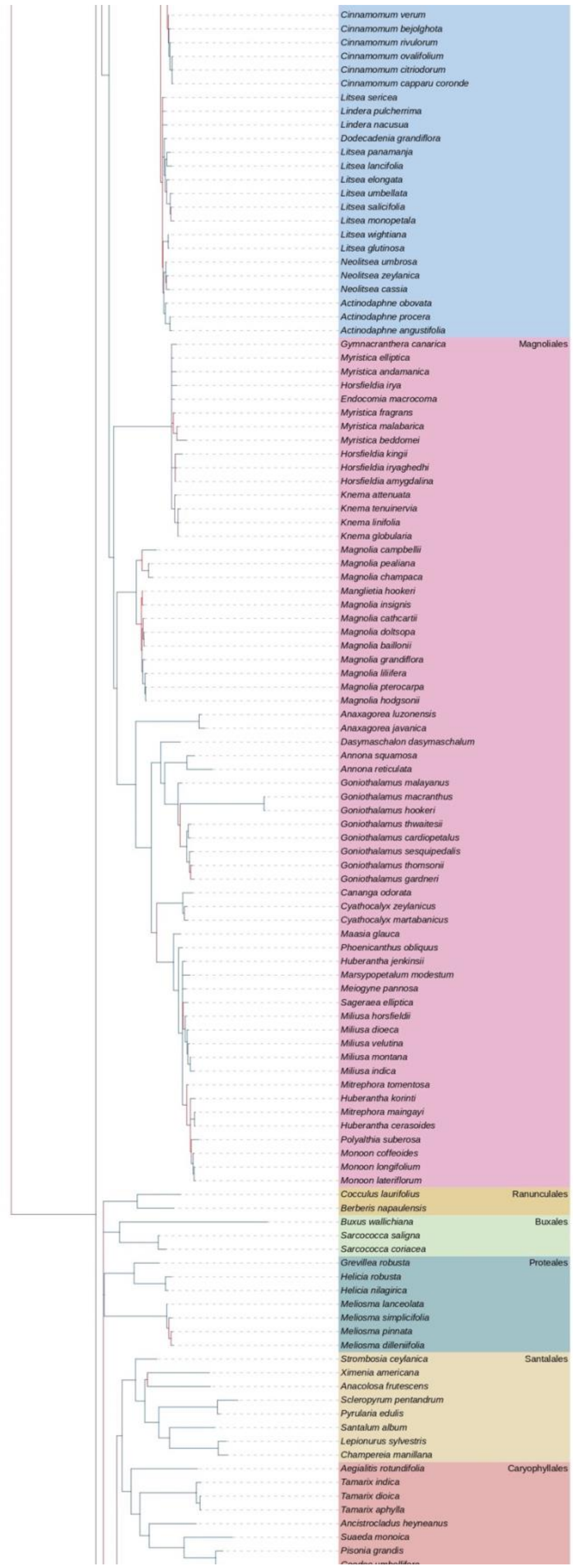
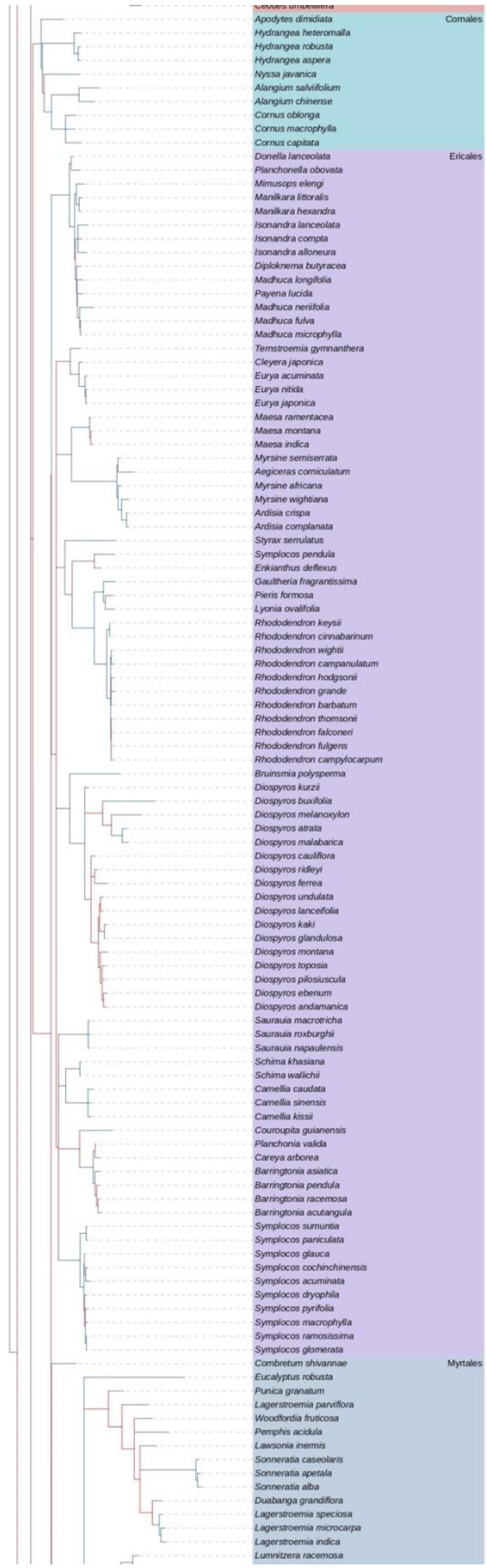
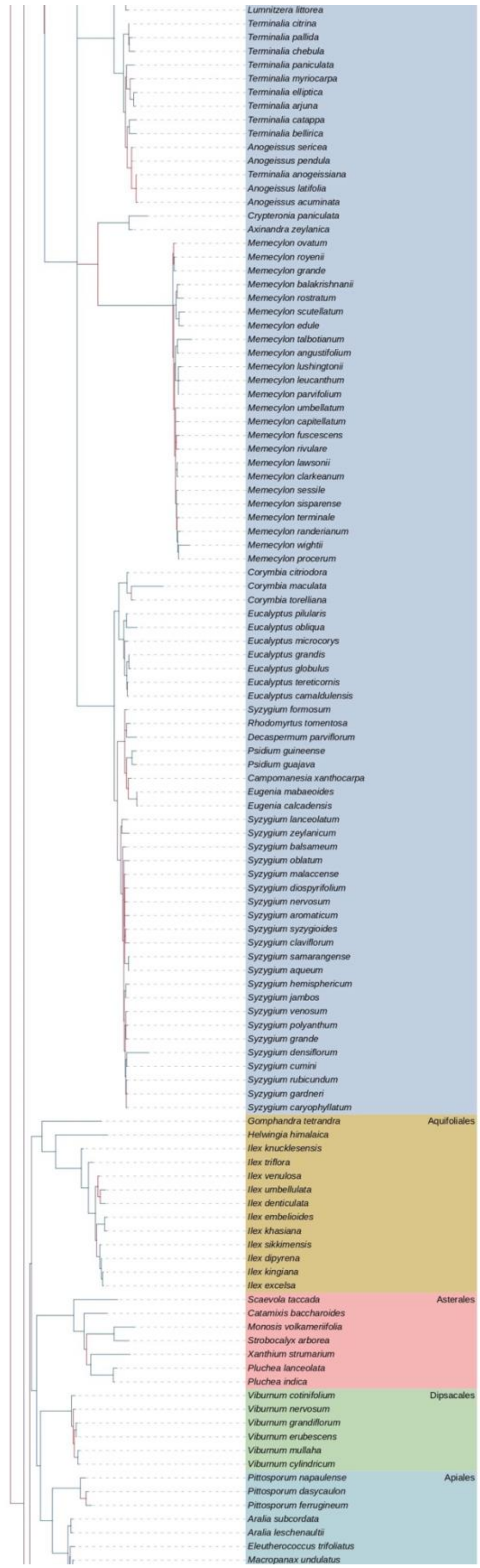
Saraca indica
Saraca asoca
Cynometra iripa
Intsia bijuga
Crudia zeylanica
Cynometra ramiflora
Tamarindus indica
Humboldtia brunonis
Pericopsis mooniana
Pterocarpus macrocarpus
Pterocarpus marsupium
Pterocarpus indicus
Pterocarpus dalbergioides
Stylosanthes fruticosa
Ormocarpum sennoides
Dalbergia latifolia
Dalbergia sissoo
Dalbergia candenatensis
Dalbergia oliveri
Dalbergia assamica
Mundulea sericea
Dalbergia lanceolaria
Piliostigma malabaricum
Indigofera heterantha
Sesbania grandiflora
Robinia pseudoacacia
Gliricidia sepium
Pongamia pinnata
Millettia peguensis
Butea superba
Butea monosperma
Dendrolobium umbellatum
Erythrina variegata
Erythrina subumbrans
Erythrina fusca
Erythrina crista galli
Erythrina suberosa
Erythrina stricta
Erythrina arborescens
Acrocarpus fraxinifolius
Biancaea sappan
Senna spectabilis
Cassia roxburghii
Cassia fistula
Senna alata
Senna sulfurea
Senna sophera
Senna auriculata
Senna timoriensis
Senna siamea
Senna montana
Peltophorum pterocarpum
Parkinsonia aculeata
Delonix regia
Delonix elata
Xylia xylocarpa
Adenanthera pavonina
Adenanthera microsperma
Entada zeylanica
Neltuma juliflora
Leucaena leucocephala
Vachellia nilotica
Prosopis cineraria
Dichrostachys cinerea
Parkia timoriana
Vachellia tortilis
Vachellia planifrons
Vachellia farnesiana
Vachellia leucophloea
Vachellia jacquemontii
Vachellia eburnea
Senegalia senegal
Senegalia polyacantha
Senegalia modesta
Senegalia mellifera
Senegalia ferruginea
Senegalia catechu
Senegalia caesia
Senegalia rugata
Senegalia pennata
Leucaena latisiliqua
Thailentadopsis nitida
Samanea saman
Pithecellobium dulce
Falcataria falcata
Archidendron clypearia
Acacia mangium
Acacia auriculiformis
Acacia melanoxylon
Acacia decurrens
Acacia dealbata
Albizia julibrissin
Cathormion umbellatum
Albizia amara
Albizia chinensis
Albizia lucidior
Albizia lebbeck
Albizia procera
Albizia odoratissima

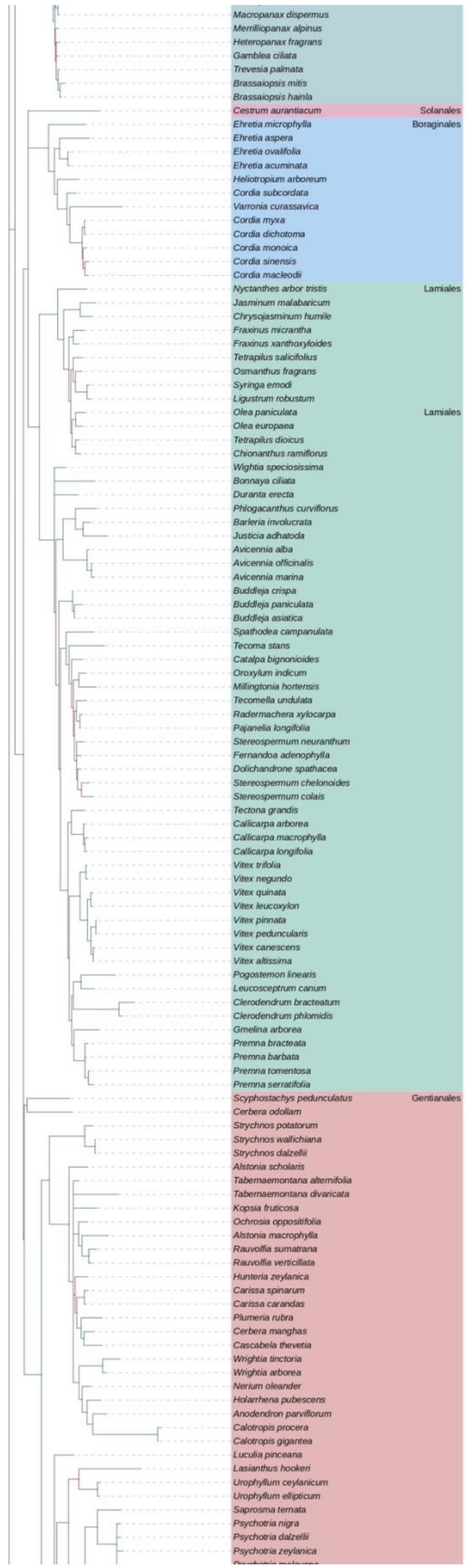
Appendix A40: Rectangular view of the phylogenetic tree of woody plant species of India and Sri Lanka formed using Bayesian Inference of 3 chloroplast genes (*rbcL*, *matK* and *psbA-trnH*) and 2 nuclear genes (*ITS1 & ITS2*) concatenated using all alignments. The circular topology phylogeny is made in iToL (Interactive Tree of Life) online software, and it depicts orders of various colours on the tips, formed with the backbone tree of the Angiosperm Phylogeny Group (APG III) with the estimation of posterior probability as a measure of phylogenetic robustness of branches in the form of a range of red and blue colours on the branches (presented in the label) (Letunic & Bork, 2006; Angiosperm Phylogeny Group, 2009).

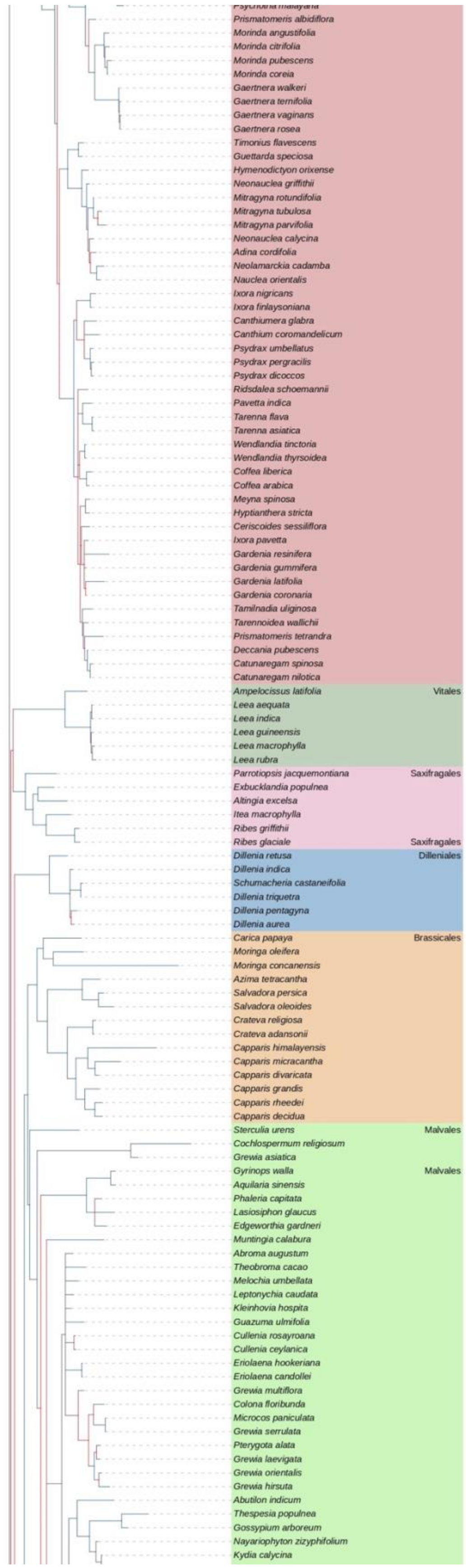

Colored ranges
Outgroup - Bryophyte
Gnetales
Acorales
Alismatales
Solanales
Crossosomatales
Boraginales
Oxalidales
Magnoliales
Fagales
Zingiberales
Cucurbitales
Apiales
Santalales
Proteales
Gentianales
Malpighiales
Ericales
Ranunculales
Lamiales
Asterales
Asparagales
Aquifoliales
Celastrales
Dilleniales
Arecales
Buxales
Dipsacales
Cyatheales
Sapindales
Cornales
Laurales
Vitales
Poales
Brassicales
Fabales
Saxifragales
Rosales
Myrtales
Pinales
Malvales
Caryophyllales
Cycadales
prob
0.5
0.63
0.75
0.88
1
Physcomitrella patens
Outgroup - Bryophyte
Alsophila gigantea
Cyatheales
Sphaeropteris brunoniana
Alsophila spinulosa
Gnetum gnemon
Gnetales
Cycas sphaerica
Cycadales
Cycas pectinata
Cycas circinalis
Podocarpus neriifolius
Pinales
Nageia wallichiana
Cephalotaxus griffithii
Taxus wallichiana
Taxus baccata
Platycladus orientalis
Cupressus torulosa
Juniperus seravschanica
Juniperus recurva
Larix griffithii
Tsuga dumosa
Abies pindrow
Abies spectabilis
Abies densa
Cedrus deodara
Picea spinulosa
Picea smithiana
Pinus roxburghii
Pinus kesiya
Pinus wallichiana
Pinus gerardiana
Acorus calamus
Acorales
Colocasia esculenta
Alismatales
Vanda coerulescens
Asparagales
Calanthe davidii
Dracaena spicata
Dracaena elliptica
Phrynium pubinerve
Zingiberales
Ensete superbum
Boesenbergia rotunda
Amomum muricatum
Amomum dealbatum
Yushania maling
Poales
Drepanostachyum falcatum
Pseudostachyum polymorphum
Bambusa bambos
Bambusa vulgaris
Poales
Bambusa tulda
Bambusa pallida
Bambusa nutans
Bambusa balcooa
Gigantochloa albociliata
Cephalostachyum capitatum
Poales
Nypa fruticans
Arecales
Calamus rotang
Calamus erectus
Cocos nucifera
Areca triandra
Areca catechu
Corypha umbraculifera
Borassus flabellifer
Arenga wightii
Arenga pinnata
Caryota obtusa
Caryota urens
Caryota mitis
Livistona jenkinsiana
Licuala spinosa
Licuala peltata
Phoenix sylvestris
Phoenix dactylifera
Phoenix pusilla
Phoenix paludosa
Phoenix loureiroi
Gyrocarpus americanus
Laurales
Hernandia nymphaeifolia
Actinodaphne lanceolata
Litsea mysorensis
Litsea ghatica
Litsea deccanensis
Litsea coriacea
Litsea bourdillonii
Litsea floribunda
Litsea glabrata
Neocinnamomum caudatum
Beilschmiedia roxburghiana
Actinodaphne madraspatana
Alseodaphnopsis petiolaris
Alseodaphnopsis andersonii
Phoebe angustifolia
Phoebe lanceolata
Persea americana
Alseodaphne semecarpifolia
Machilus gamblei
Machilus kurzii
Machilus duthiei
Lindera latifolia
Litsea kingii
Dehaasia firma
Cinnamomum glanduliferum
Cinnamomum glaucescens
Cinnamomum tamala
Cinnamomum sulphuratum
Cinnamomum wightii
Cinnamomum perrottetii
Cinnamomum riparium
Cinnamomum keralaense
Cinnamomum macrocarpum
Cinnamomum malabatrum
Cinnamomum sinharajaense
Cinnamomum dubium


Cinnamomum verum
Cinnamomum bejolghota
Cinnamomum rivulorum
Cinnamomum ovalifolium
Cinnamomum citriodorum
Cinnamomum capparu coronde
Litsea sericea
Lindera pulcherrima
Lindera nacusua
Dodecadenia grandiflora
Litsea panamanja
Litsea lancifolia
Litsea elongata
Litsea umbellata
Litsea salicifolia
Litsea monopetala
Litsea wightiana
Litsea glutinosa
Neolitsea umbrosa
Neolitsea zeylanica
Neolitsea cassia
Actinodaphne obovata
Actinodaphne procera
Actinodaphne angustifolia
Gymnacranthera canarica
Magnoliales
Myristica elliptica
Myristica andamanica
Horsfieldia irya
Endocomia macrocoma
Myristica fragrans
Myristica malabarica
Myristica beddomei
Horsfieldia kingii
Horsfieldia iryaghedhi
Horsfieldia amygdalina
Knema attenuata
Knema tenuinervia
Knema linifolia
Knema globularia
Magnolia campbellii
Magnolia pealiana
Magnolia champaca
Manglietia hookeri
Magnolia insignis
Magnolia cathcartii
Magnolia doltsopa
Magnolia baillonii
Magnolia grandiflora
Magnolia liliifera
Magnolia pterocarpa
Magnolia hodgsonii
Anaxagorea luzonensis
Anaxagorea javanica
Dasymaschalon dasymaschalum
Annona squamosa
Annona reticulata
Goniothalamus malayanus
Goniothalamus macranthus
Goniothalamus hookeri
Goniothalamus thwaitesii
Goniothalamus cardiopetalus
Goniothalamus sesquipedalis
Goniothalamus thomsonii
Goniothalamus gardneri
Cananga odorata
Cyathocalyx zeylanicus
Cyathocalyx martabanicus
Maasia glauca
Phoenicanthus obliquus
Huberantha jenkinsii
Marsypopetalum modestum
Meiogyne pannosa
Sageraea elliptica
Miliusa horsfieldii
Miliusa dioeca
Miliusa velutina
Miliusa montana
Miliusa indica
Mitrephora tomentosa
Huberantha korinti
Mitrephora maingayi
Huberantha cerasoides
Polyalthia suberosa
Monoon coffeoides
Monoon longifolium
Monoon lateriflorum
Cocculus laurifolius
Ranunculales
Berberis napaulensis
Buxus wallichiana
Buxales
Sarcococca saligna
Sarcococca coriacea
Grevillea robusta
Proteales
Helicia robusta
Helicia nilagirica
Meliosma lanceolata
Meliosma simplicifolia
Meliosma pinnata
Meliosma dilleniifolia
Strombosia ceylanica
Santalales
Ximenia americana
Anacolosa frutescens
Scleropyrum pentandrum
Pyrularia edulis
Santalum album
Lepionurus sylvestris
Champereia manillana
Aegialitis rotundifolia
Caryophyllales
Tamarix indica
Tamarix dioica
Tamarix aphylla
Ancistrocladus heyneanus
Suaeda monoica
Pisonia grandis

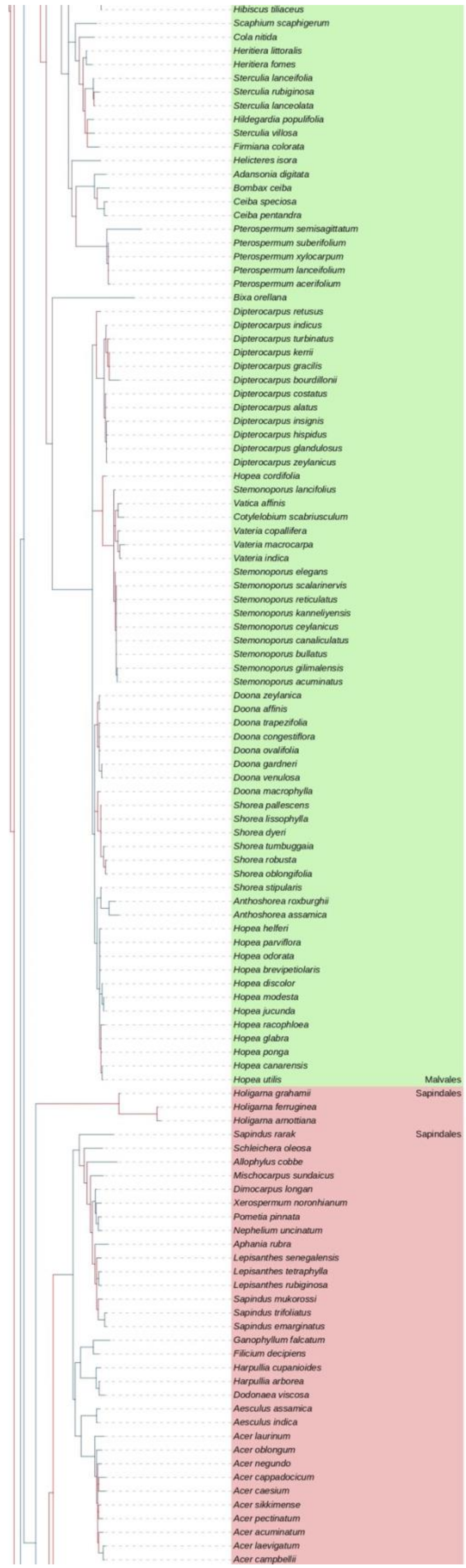

Apodytes dimidiata
Cornales
Hydrangea heteromalla
Hydrangea robusta
Hydrangea aspera
Nyssa javanica
Alangium salviifolium
Alangium chinense
Cornus oblonga
Cornus macrophylla
Cornus capitata
Donella lanceolata
Ericales
Planchonella obovata
Mimusops elengi
Manilkara littoralis
Manilkara hexandra
Isonandra lanceolata
Isonandra compta
Isonandra alloneura
Diploknema butyracea
Madhuca longifolia
Payena lucida
Madhuca neriifolia
Madhuca fulva
Madhuca microphylla
Ternstroemia gymnanthera
Cleyera japonica
Eurya acuminata
Eurya nitida
Eurya japonica
Maesa ramentacea
Maesa montana
Maesa indica
Myrsine semiserrata
Aegiceras corniculatum
Myrsine africana
Myrsine wightiana
Ardisia crispa
Ardisia complanata
Styrax serrulatus
Symplocos pendula
Enkianthus deflexus
Gaultheria fragrantissima
Pieris formosa
Lyonia ovalifolia
Rhododendron keysii
Rhododendron cinnabarinum
Rhododendron wightii
Rhododendron campanulatum
Rhododendron hodgsonii
Rhododendron grande
Rhododendron barbatum
Rhododendron thomsonii
Rhododendron falconeri
Rhododendron fulgens
Rhododendron campylocarpum
Bruinsmia polysperma
Diospyros kurzii
Diospyros buxifolia
Diospyros melanoxylon
Diospyros atrata
Diospyros malabarica
Diospyros cauliflora
Diospyros ridleyi
Diospyros ferrea
Diospyros undulata
Diospyros lanceifolia
Diospyros kaki
Diospyros glandulosa
Diospyros montana
Diospyros toposia
Diospyros pilosiuscula
Diospyros ebenum
Diospyros andamanica
Saurauia macrotricha
Saurauia roxburghii
Saurauia napaulensis
Schima khasiana
Schima wallichii
Camellia caudata
Camellia sinensis
Camellia kissii
Couroupita guianensis
Planchonia valida
Careya arborea
Barringtonia asiatica
Barringtonia pendula
Barringtonia racemosa
Barringtonia acutangula
Symplocos sumuntia
Symplocos paniculata
Symplocos glauca
Symplocos cochinchinensis
Symplocos acuminata
Symplocos dryophila
Symplocos pyrifolia
Symplocos macrophylla
Symplocos ramosissima
Symplocos glomerata
Combretum shivannae
Myrtales
Eucalyptus robusta
Punica granatum
Lagerstroemia parviflora
Woodfordia fruticosa
Pemphis acidula
Lawsonia inermis
Sonneratia caseolaris
Sonneratia apetala
Sonneratia alba
Duabanga grandiflora
Lagerstroemia speciosa
Lagerstroemia microcarpa
Lagerstroemia indica
Lumnitzera racemosa

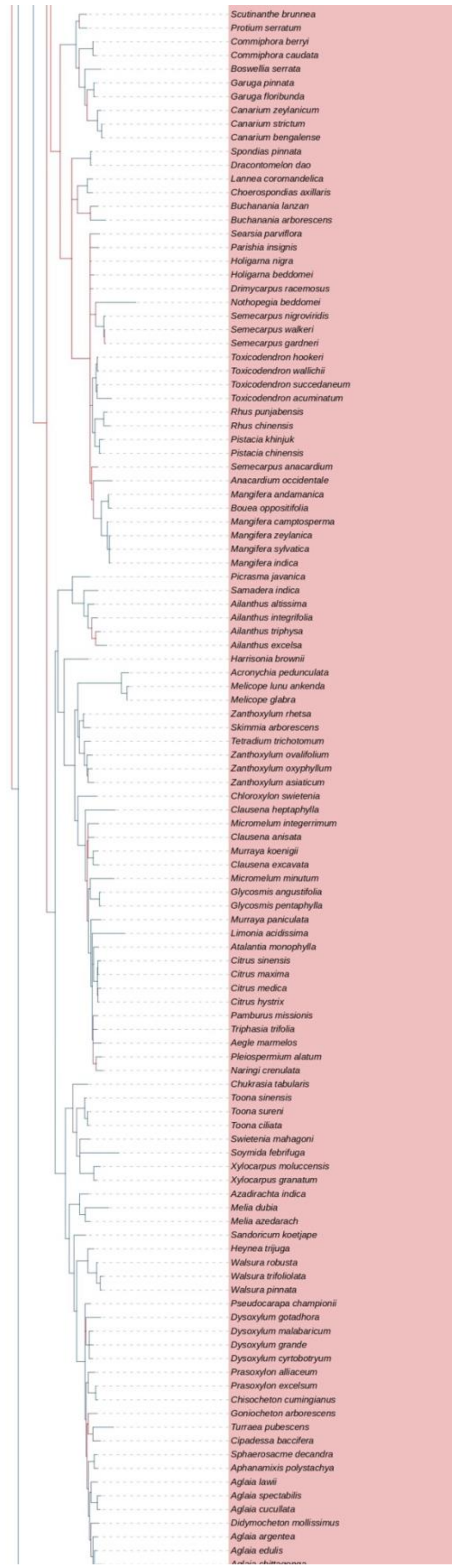

Lumnitzera littorea
Terminalia citrina
Terminalia pallida
Terminalia chebula
Terminalia paniculata
Terminalia myriocarpa
Terminalia elliptica
Terminalia arjuna
Terminalia catappa
Terminalia bellirica
Anogeissus sericea
Anogeissus pendula
Terminalia anogeissiana
Anogeissus latifolia
Anogeissus acuminata
Crypteronia paniculata
Axinandra zeylanica
Memecylon ovatum
Memecylon royenii
Memecylon grande
Memecylon balakrishnanii
Memecylon rostratum
Memecylon scutellatum
Memecylon edule
Memecylon talbotianum
Memecylon angustifolium
Memecylon lushingtonii
Memecylon leucanthum
Memecylon parvifolium
Memecylon umbellatum
Memecylon capitellatum
Memecylon fuscescens
Memecylon rivulare
Memecylon lawsonii
Memecylon clarkeanum
Memecylon sessile
Memecylon sisparense
Memecylon terminale
Memecylon randerianum
Memecylon wightii
Memecylon procerum
Corymbia citriodora
Corymbia maculata
Corymbia torelliana
Eucalyptus pilularis
Eucalyptus obliqua
Eucalyptus microcorys
Eucalyptus grandis
Eucalyptus globulus
Eucalyptus tereticornis
Eucalyptus camaldulensis
Syzygium formosum
Rhodomyrtus tomentosa
Decaspermum parviflorum
Psidium guineense
Psidium guajava
Campomanesia xanthocarpa
Eugenia mabaeoides
Eugenia calcadensis
Syzygium lanceolatum
Syzygium zeylanicum
Syzygium balsameum
Syzygium oblatum
Syzygium malaccense
Syzygium diospyrifolium
Syzygium nervosum
Syzygium aromaticum
Syzygium syzygioides
Syzygium claviflorum
Syzygium samarangense
Syzygium aqueum
Syzygium hemisphericum
Syzygium jambos
Syzygium venosum
Syzygium polyanthum
Syzygium grande
Syzygium densiflorum
Syzygium cumini
Syzygium rubicundum
Syzygium gardneri
Syzygium caryophyllatum
Gomphandra tetrandra
Aquifoliales
Helwingia himalaica
Ilex knucklesensis
Ilex triflora
Ilex venulosa
Ilex umbellulata
Ilex denticulata
Ilex embelioides
Ilex khasiana
Ilex sikkimensis
Ilex dipyrena
Ilex kingiana
Ilex excelsa
Scaevola taccada
Asterales
Catamixis baccharoides
Monosis volkameriifolia
Strobocalyx arborea
Xanthium strumarium
Pluchea lanceolata
Pluchea indica
Viburnum cotinifolium
Dipsacales
Viburnum nervosum
Viburnum grandiflorum
Viburnum erubescens
Viburnum mullaha
Viburnum cylindricum
Pittosporum napaulense
Apiales
Pittosporum dasycaulon
Pittosporum ferrugineum
Aralia subcordata
Aralia leschenaultii
Eleutherococcus trifoliatus
Macropanax undulatus

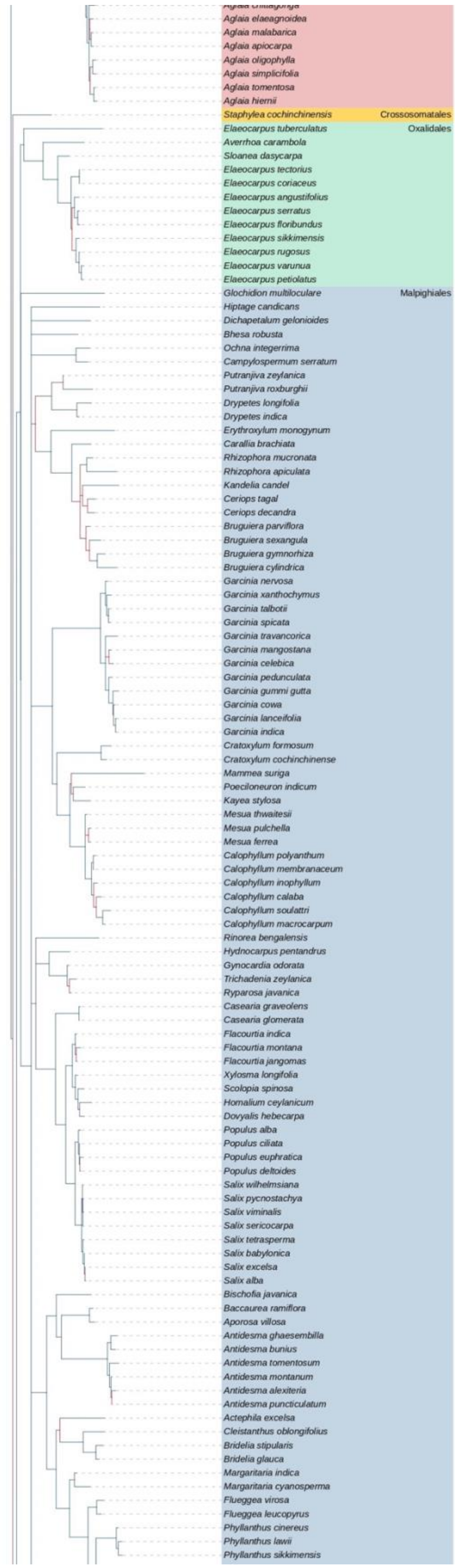

Macropanax dispermus
Merrilliopanax alpinus
Heteropanax fragrans
Gamblea ciliata
Trevesia palmata
Brassaiopsis mitis
Brassaiopsis hainla
Cestrum aurantiacum
Solanales
Ehretia microphylla
Boraginales
Ehretia aspera
Ehretia ovalifolia
Ehretia acuminata
Heliotropium arboreum
Cordia subcordata
Varronia curassavica
Cordia myxa
Cordia dichotoma
Cordia monoica
Cordia sinensis
Cordia macleodii
Nyctanthes arbor tristis
Lamiales
Jasminum malabaricum
Chrysojasminum humile
Fraxinus micrantha
Fraxinus xanthoxyloides
Tetrapilus salicifolius
Osmanthus fragrans
Syringa emodi
Ligustrum robustum
Olea paniculata
Lamiales
Olea europaea
Tetrapilus dioicus
Chionanthus ramiflorus
Wightia speciosissima
Bonnaya ciliata
Duranta erecta
Phlogacanthus curviflorus
Barleria involucrata
Justicia adhatoda
Avicennia alba
Avicennia officinalis
Avicennia marina
Buddleja crispa
Buddleja paniculata
Buddleja asiatica
Spathodea campanulata
Tecoma stans
Catalpa bignonioides
Oroxylum indicum
Millingtonia hortensis
Tecomella undulata
Radermachera xylocarpa
Pajanelia longifolia
Stereospermum neuranthum
Fernandoa adenophylla
Dolichandrone spathacea
Stereospermum chelonoides
Stereospermum colais
Tectona grandis
Callicarpa arborea
Callicarpa macrophylla
Callicarpa longifolia
Vitex trifolia
Vitex negundo
Vitex quinata
Vitex leucoxylon
Vitex pinnata
Vitex peduncularis
Vitex canescens
Vitex altissima
Pogostemon linearis
Leucosceptrum canum
Clerodendrum bracteatum
Clerodendrum phlomidis
Gmelina arborea
Premna bracteata
Premna barbata
Premna tomentosa
Premna serratifolia
Scyphostachys pedunculatus
Gentianales
Cerbera odollam
Strychnos potatorum
Strychnos wallichiana
Strychnos dalzellii
Alstonia scholaris
Tabernaemontana alternifolia
Tabernaemontana divaricata
Kopsia fruticosa
Ochrosia oppositifolia
Alstonia macrophylla
Rauvolfia sumatrana
Rauvolfia verticillata
Hunteria zeylanica
Carissa spinarum
Carissa carandas
Plumeria rubra
Cerbera manghas
Cascabela thevetia
Wrightia tinctoria
Wrightia arborea
Nerium oleander
Holarrhena pubescens
Anodendron parviflorum
Calotropis procera
Calotropis gigantea
Luculia pinceana
Lasianthus hookeri
Urophyllum ceylanicum
Urophyllum ellipticum
Saprosma ternata
Psychotria nigra
Psychotria dalzellii
Psychotria zeylanica

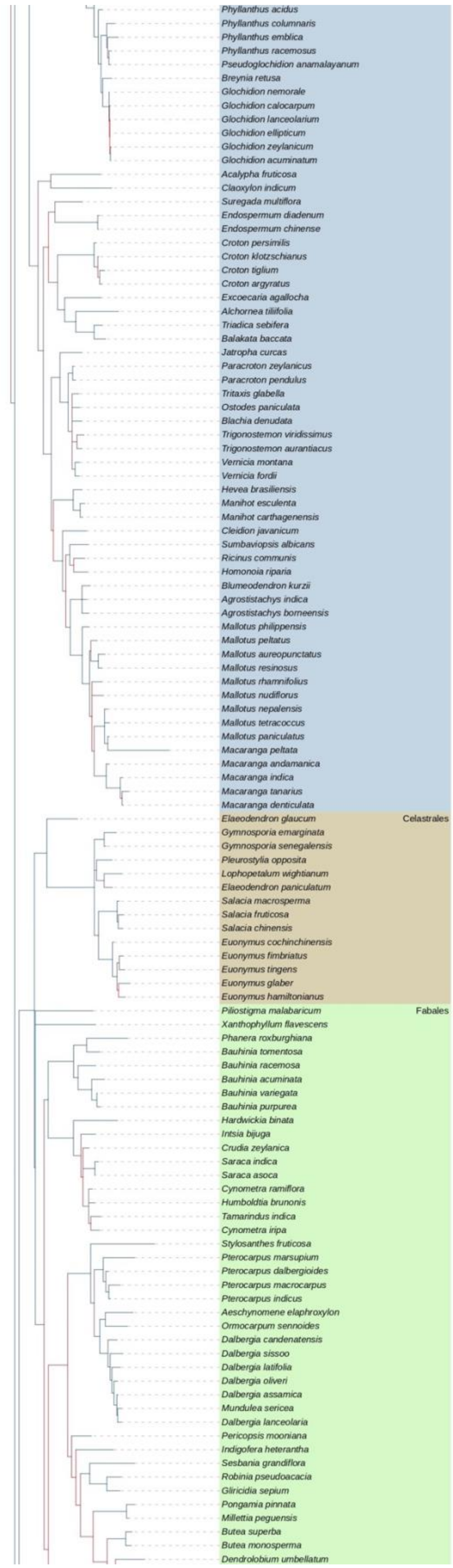


Psychotria malayana
Prismatomeris albidiflora
Morinda angustifolia
Morinda citrifolia
Morinda pubescens
Morinda coreia
Gaertnera walkeri
Gaertnera ternifolia
Gaertnera vaginans
Gaertnera rosea
Timonius flavescens
Guettarda speciosa
Hymenodictyon orixense
Neonauclea griffithii
Mitragyna rotundifolia
Mitragyna tubulosa
Mitragyna parvifolia
Neonauclea calycina
Adina cordifolia
Neolamarckia cadamba
Nauclea orientalis
Ixora nigricans
Ixora finlaysoniana
Canthiumera glabra
Canthium coromandelicum
Psydrax umbellatus
Psydrax pergracilis
Psydrax dicoccos
Ridsdalea schoemannii
Pavetta indica
Tarenna flava
Tarenna asiatica
Wendlandia tinctoria
Wendlandia thyrsoidea
Coffea liberica
Coffea arabica
Meyna spinosa
Hyptianthera stricta
Ceriscoides sessiliflora
Ixora pavetta
Gardenia resinifera
Gardenia gummifera
Gardenia latifolia
Gardenia coronaria
Tamilnadia uliginosa
Tarennoidea wallichii
Prismatomeris tetrandra
Deccania pubescens
Catunaregam spinosa
Catunaregam nilotica
Ampelocissus latifolia
Vitales
Leea aequata
Leea indica
Leea guineensis
Leea macrophylla
Leea rubra
Parrotiopsis jacquemontiana
Saxifragales
Exbucklandia populnea
Altingia excelsa
Itea macrophylla
Ribes griffithii
Ribes glaciale
Saxifragales
Dillenia retusa
Dilleniales
Dillenia indica
Schumacheria castaneifolia
Dillenia triquetra
Dillenia pentagyna
Dillenia aurea
Carica papaya
Brassicales
Moringa oleifera
Moringa concanensis
Azima tetracantha
Salvadora persica
Salvadora oleoides
Crateva religiosa
Crateva adansonii
Capparis himalayensis
Capparis micracantha
Capparis divaricata
Capparis grandis
Capparis rheedei
Capparis decidua
Sterculia urens
Malvales
Cochlospermum religiosum
Grewia asiatica
Gyrinops walla
Malvales
Aquilaria sinensis
Phaleria capitata
Lasiosiphon glaucus
Edgeworthia gardneri
Muntingia calabura
Abroma augustum
Theobroma cacao
Melochia umbellata
Leptonychia caudata
Kleinhovia hospita
Guazuma ulmifolia
Cullenia rosayroana
Cullenia ceylanica
Eriolaena hookeriana
Eriolaena candollei
Grewia multiflora
Colona floribunda
Microcos paniculata
Grewia serrulata
Pterygota alata
Grewia laevigata
Grewia orientalis
Grewia hirsuta
Abutilon indicum
Thespesia populnea
Gossypium arboreum
Nayariophyton zizyphifolium
Kydia calycina

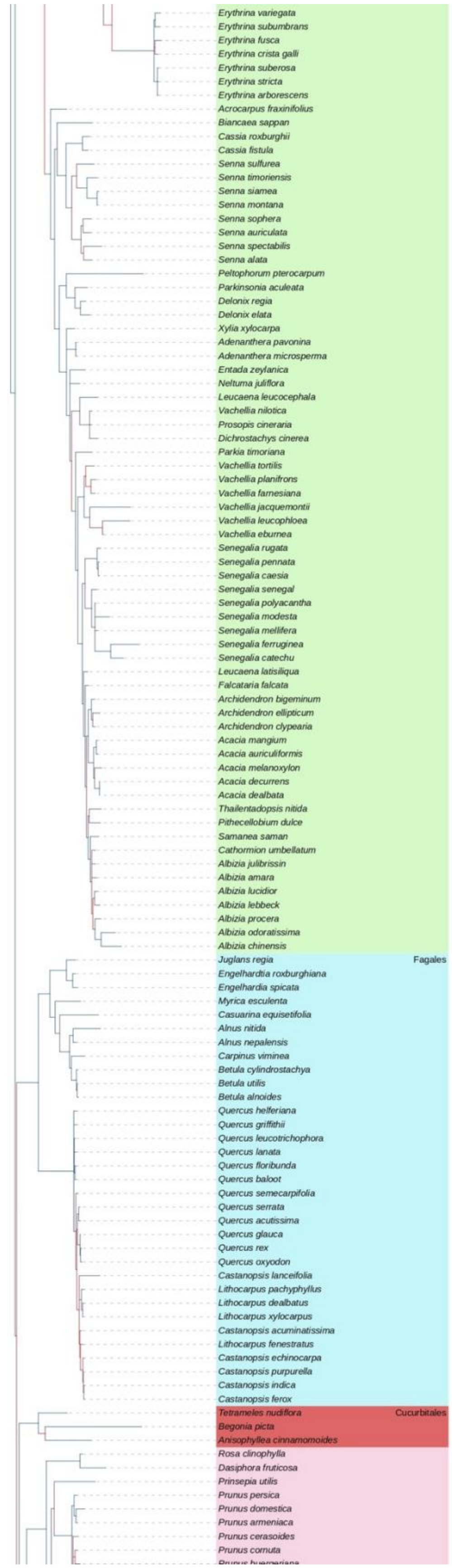

Hibiscus tiliaceus
Scaphium scaphigerum
Cola nitida
Heritiera littoralis
Heritiera fomes
Sterculia lanceifolia
Sterculia rubiginosa
Sterculia lanceolata
Hildegardia populifolia
Sterculia villosa
Firmiana colorata
Helicteres isora
Adansonia digitata
Bombax ceiba
Ceiba speciosa
Ceiba pentandra
Pterospermum semisagittatum
Pterospermum suberifolium
Pterospermum xylocarpum
Pterospermum lanceifolium
Pterospermum acerifolium
Bixa orellana
Dipterocarpus retusus
Dipterocarpus indicus
Dipterocarpus turbinatus
Dipterocarpus kerrii
Dipterocarpus gracilis
Dipterocarpus bourdillonii
Dipterocarpus costatus
Dipterocarpus alatus
Dipterocarpus insignis
Dipterocarpus hispidus
Dipterocarpus glandulosus
Dipterocarpus zeylanicus
Hopea cordifolia
Stemonoporus lancifolius
Vatica affinis
Cotylelobium scabriusculum
Vateria copallifera
Vateria macrocarpa
Vateria indica
Stemonoporus elegans
Stemonoporus scalarinervis
Stemonoporus reticulatus
Stemonoporus kanneliyensis
Stemonoporus ceylanicus
Stemonoporus canaliculatus
Stemonoporus bullatus
Stemonoporus gilimalensis
Stemonoporus acuminatus
Doona zeylanica
Doona affinis
Doona trapezifolia
Doona congestiflora
Doona ovalifolia
Doona gardneri
Doona venulosa
Doona macrophylla
Shorea pallescens
Shorea lissophylla
Shorea dyeri
Shorea tumbuggaia
Shorea robusta
Shorea oblongifolia
Shorea stipularis
Anthoshorea roxburghii
Anthoshorea assamica
Hopea helferi
Hopea parviflora
Hopea odorata
Hopea brevipetiolaris
Hopea discolor
Hopea modesta
Hopea jucunda
Hopea racophloea
Hopea glabra
Hopea ponga
Hopea canarensis
Hopea utilis
Malvales
Holigarna grahamii
Sapindales
Holigarna ferruginea
Holigarna arnottiana
Sapindus rarak
Sapindales
Schleichera oleosa
Allophylus cobbe
Mischocarpus sundaicus
Dimocarpus longan
Xerospermum noronhianum
Pometia pinnata
Nephelium uncinatum
Aphania rubra
Lepisanthes senegalensis
Lepisanthes tetraphylla
Lepisanthes rubiginosa
Sapindus mukorossi
Sapindus trifoliatus
Sapindus emarginatus
Ganophyllum falcatum
Filicium decipiens
Harpullia cupanioides
Harpullia arborea
Dodonaea viscosa
Aesculus assamica
Aesculus indica
Acer laurinum
Acer oblongum
Acer negundo
Acer cappadocicum
Acer caesium
Acer sikkimense
Acer pectinatum
Acer acuminatum
Acer laevigatum
Acer campbellii


Scutinanthe brunnea
Protium serratum
Commiphora berryi
Commiphora caudata
Boswellia serrata
Garuga pinnata
Garuga floribunda
Canarium zeylanicum
Canarium strictum
Canarium bengalense
Spondias pinnata
Dracontomelon dao
Lannea coromandelica
Choerospondias axillaris
Buchanania lanzan
Buchanania arborescens
Searsia parviflora
Parishia insignis
Holigarna nigra
Holigarna beddomei
Drimycarpus racemosus
Nothopegia beddomei
Semecarpus nigroviridis
Semecarpus walkeri
Semecarpus gardneri
Toxicodendron hookeri
Toxicodendron wallichii
Toxicodendron succedaneum
Toxicodendron acuminatum
Rhus punjabensis
Rhus chinensis
Pistacia khinjuk
Pistacia chinensis
Semecarpus anacardium
Anacardium occidentale
Mangifera andamanica
Bouea oppositifolia
Mangifera camptosperma
Mangifera zeylanica
Mangifera sylvatica
Mangifera indica
Picrasma javanica
Samadera indica
Ailanthus altissima
Ailanthus integrifolia
Ailanthus triphysa
Ailanthus excelsa
Harrisonia brownii
Acronychia pedunculata
Melicope lunu ankenda
Melicope glabra
Zanthoxylum rhetsa
Skimmia arborescens
Tetradium trichotomum
Zanthoxylum ovalifolium
Zanthoxylum oxyphyllum
Zanthoxylum asiaticum
Chloroxylon swietenia
Clausena heptaphylla
Micromelum integerrimum
Clausena anisata
Murraya koenigii
Clausena excavata
Micromelum minutum
Glycosmis angustifolia
Glycosmis pentaphylla
Murraya paniculata
Limonia acidissima
Atalantia monophylla
Citrus sinensis
Citrus maxima
Citrus medica
Citrus hystrix
Pamburus missionis
Triphasia trifolia
Aegle marmelos
Pleiospermium alatum
Naringi crenulata
Chukrasia tabularis
Toona sinensis
Toona sureni
Toona ciliata
Swietenia mahagoni
Soymida febrifuga
Xylocarpus moluccensis
Xylocarpus granatum
Azadirachta indica
Melia dubia
Melia azedarach
Sandoricum koetjape
Heynea trijuga
Walsura robusta
Walsura trifoliolata
Walsura pinnata
Pseudocarapa championii
Dysoxylum gotadhora
Dysoxylum malabaricum
Dysoxylum grande
Dysoxylum cyrtobotryum
Prasoxylon alliaceum
Prasoxylon excelsum
Chisocheton cumingianus
Goniocheton arborescens
Turraea pubescens
Cipadessa baccifera
Sphaerosacme decandra
Aphanamixis polystachya
Aglaia lawii
Aglaia spectabilis
Aglaia cucullata
Didymocheton mollissimus
Aglaia argentea
Aglaia edulis

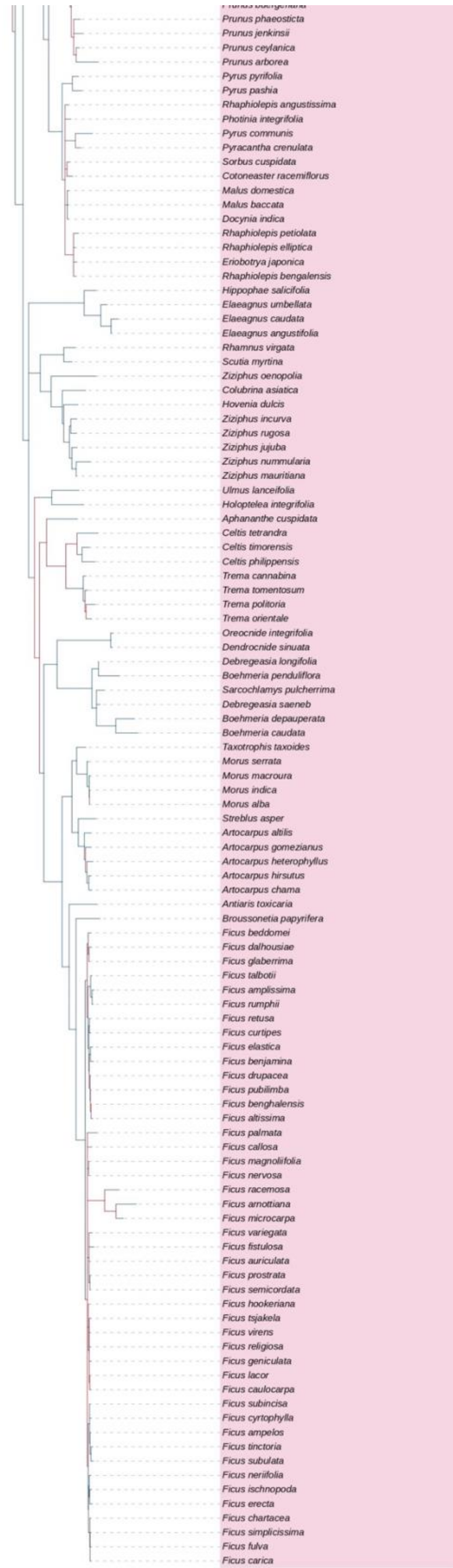

Aglaia elaeagnoidea
Aglaia malabarica
Aglaia apiocarpa
Aglaia oligophylla
Aglaia simplicifolia
Aglaia tomentosa
Aglaia hiernii
Staphylea cochinchinensis
Crossosomatales
Elaeocarpus tuberculatus
Oxalidales
Averrhoa carambola
Sloanea dasycarpa
Elaeocarpus tectorius
Elaeocarpus coriaceus
Elaeocarpus angustifolius
Elaeocarpus serratus
Elaeocarpus floribundus
Elaeocarpus sikkimensis
Elaeocarpus rugosus
Elaeocarpus varunua
Elaeocarpus petiolatus
Glochidion multiloculare
Malpighiales
Hiptage candicans
Dichapetalum gelonioides
Bhesa robusta
Ochna integerrima
Campylospermum serratum
Putranjiva zeylanica
Putranjiva roxburghii
Drypetes longifolia
Drypetes indica
Erythroxylum monogynum
Carallia brachiata
Rhizophora mucronata
Rhizophora apiculata
Kandelia candel
Ceriops tagal
Ceriops decandra
Bruguiera parviflora
Bruguiera sexangula
Bruguiera gymnorhiza
Bruguiera cylindrica
Garcinia nervosa
Garcinia xanthochymus
Garcinia talbotii
Garcinia spicata
Garcinia travancorica
Garcinia mangostana
Garcinia celebica
Garcinia pedunculata
Garcinia gummi gutta
Garcinia cowa
Garcinia lanceifolia
Garcinia indica
Cratoxylum formosum
Cratoxylum cochinchinense
Mammea suriga
Poeciloneuron indicum
Kayea stylosa
Mesua thwaitesii
Mesua pulchella
Mesua ferrea
Calophyllum polyanthum
Calophyllum membranaceum
Calophyllum inophyllum
Calophyllum calaba
Calophyllum soulattri
Calophyllum macrocarpum
Rinorea bengalensis
Hydnocarpus pentandrus
Gynocardia odorata
Trichadenia zeylanica
Ryparosa javanica
Casearia graveolens
Casearia glomerata
Flacourtia indica
Flacourtia montana
Flacourtia jangomas
Xylosma longifolia
Scolopia spinosa
Homalium ceylanicum
Dovyalis hebecarpa
Populus alba
Populus ciliata
Populus euphratica
Populus deltoides
Salix wilhelmsiana
Salix pycnostachya
Salix viminalis
Salix sericocarpa
Salix tetrasperma
Salix babylonica
Salix excelsa
Salix alba
Bischofia javanica
Baccaurea ramiflora
Aporosa villosa
Antidesma ghaesembilla
Antidesma bunius
Antidesma tomentosum
Antidesma montanum
Antidesma alexiteria
Antidesma puncticulatum
Actephila excelsa
Cleistanthus oblongifolius
Bridelia stipularis
Bridelia glauca
Margaritaria indica
Margaritaria cyanosperma
Flueggea virosa
Flueggea leucopyrus
Phyllanthus cinereus
Phyllanthus lawii
Phyllanthus sikkimensis



Phyllanthus acidus
Phyllanthus columnaris
Phyllanthus emblica
Phyllanthus racemosus
Pseudoglochidion anamalayanum
Breynia retusa
Glochidion nemorale
Glochidion calocarpum
Glochidion lanceolarium
Glochidion ellipticum
Glochidion zeylanicum
Glochidion acuminatum
Acalypha fruticosa
Claoxylon indicum
Suregada multiflora
Endospermum diadenum
Endospermum chinense
Croton persimilis
Croton klotzschianus
Croton tiglium
Croton argyratus
Excoecaria agallocha
Alchornea tiliifolia
Triadica sebifera
Balakata baccata
Jatropha curcas
Paracroton zeylanicus
Paracroton pendulus
Tritaxis glabella
Ostodes paniculata
Blachia denudata
Trigonostemon viridissimus
Trigonostemon aurantiacus
Vernicia montana
Vernicia fordii
Hevea brasiliensis
Manihot esculenta
Manihot carthagenensis
Cleidion javanicum
Sumbaviopsis albicans
Ricinus communis
Homonoia riparia
Blumeodendron kurzii
Agrostistachys indica
Agrostistachys borneensis
Mallotus philippensis
Mallotus peltatus
Mallotus aureopunctatus
Mallotus resinosus
Mallotus rhamnifolius
Mallotus nudiflorus
Mallotus nepalensis
Mallotus tetracoccus
Mallotus paniculatus
Macaranga peltata
Macaranga andamanica
Macaranga indica
Macaranga tanarius
Macaranga denticulata
Elaeodendron glaucum
Celastrales
Gymnosporia emarginata
Gymnosporia senegalensis
Pleurostylia opposita
Lophopetalum wightianum
Elaeodendron paniculatum
Salacia macrosperma
Salacia fruticosa
Salacia chinensis
Euonymus cochinchinensis
Euonymus fimbriatus
Euonymus tingens
Euonymus glaber
Euonymus hamiltonianus
Piliostigma malabaricum
Fabales
Xanthophyllum flavescens
Phanera roxburghiana
Bauhinia tomentosa
Bauhinia racemosa
Bauhinia acuminata
Bauhinia variegata
Bauhinia purpurea
Hardwickia binata
Intsia bijuga
Crudia zeylanica
Saraca indica
Saraca asoca
Cynometra ramiflora
Humboldtia brunonis
Tamarindus indica
Cynometra iripa
Stylosanthes fruticosa
Pterocarpus marsupium
Pterocarpus dalbergioides
Pterocarpus macrocarpus
Pterocarpus indicus
Aeschynomene elaphroxylon
Ormocarpum sennoides
Dalbergia candenatensis
Dalbergia sissoo
Dalbergia latifolia
Dalbergia oliveri
Dalbergia assamica
Mundulea sericea
Dalbergia lanceolaria
Pericopsis mooniana
Indigofera heterantha
Sesbania grandiflora
Robinia pseudoacacia
Gliricidia sepium
Pongamia pinnata
Millettia peguensis
Butea superba
Butea monosperma
Dendrolobium umbellatum



Erythrina variegata
Erythrina subumbrans
Erythrina fusca
Erythrina crista galli
Erythrina suberosa
Erythrina stricta
Erythrina arborescens
Acrocarpus fraxinifolius
Biancaea sappan
Cassia roxburghii
Cassia fistula
Senna sulfurea
Senna timoriensis
Senna siamea
Senna montana
Senna sophera
Senna auriculata
Senna spectabilis
Senna alata
Peltophorum pterocarpum
Parkinsonia aculeata
Delonix regia
Delonix elata
Xylia xylocarpa
Adenanthera pavonina
Adenanthera microsperma
Entada zeylanica
Neltuma juliflora
Leucaena leucocephala
Vachellia nilotica
Prosopis cineraria
Dichrostachys cinerea
Parkia timoriana
Vachellia tortilis
Vachellia planifrons
Vachellia farnesiana
Vachellia jacquemontii
Vachellia leucophloea
Vachellia eburnea
Senegalia rugata
Senegalia pennata
Senegalia caesia
Senegalia senegal
Senegalia polyacantha
Senegalia modesta
Senegalia mellifera
Senegalia ferruginea
Senegalia catechu
Leucaena latisiliqua
Falcataria falcata
Archidendron bigeminum
Archidendron ellipticum
Archidendron clypearia
Acacia mangium
Acacia auriculiformis
Acacia melanoxylon
Acacia decurrens
Acacia dealbata
Thailentadopsis nitida
Pithecellobium dulce
Samanea saman
Cathormion umbellatum
Albizia julibrissin
Albizia amara
Albizia lucidior
Albizia lebbeck
Albizia procera
Albizia odoratissima
Albizia chinensis
Juglans regia
Fagales
Engelhardtia roxburghiana
Engelhardia spicata
Myrica esculenta
Casuarina equisetifolia
Alnus nitida
Alnus nepalensis
Carpinus viminea
Betula cylindrostachya
Betula utilis
Betula alnoides
Quercus helferiana
Quercus griffithii
Quercus leucotrichophora
Quercus lanata
Quercus floribunda
Quercus baloot
Quercus semecarpifolia
Quercus serrata
Quercus acutissima
Quercus glauca
Quercus rex
Quercus oxyodon
Castanopsis lanceifolia
Lithocarpus pachyphyllus
Lithocarpus dealbatus
Lithocarpus xylocarpus
Castanopsis acuminatissima
Lithocarpus fenestratus
Castanopsis echinocarpa
Castanopsis purpurella
Castanopsis indica
Castanopsis ferox
Tetrameles nudiflora
Cucurbitales
Begonia picta
Anisophyllea cinnamomoides
Rosa clinophylla
Dasiphora fruticosa
Prinsepia utilis
Prunus persica
Prunus domestica
Prunus armeniaca
Prunus cerasoides
Prunus cornuta


Prunus phaeosticta
Prunus jenkinsii
Prunus ceylanica
Prunus arborea
Pyrus pyrifolia
Pyrus pashia
Rhaphiolepis angustissima
Photinia integrifolia
Pyrus communis
Pyracantha crenulata
Sorbus cuspidata
Cotoneaster racemiflorus
Malus domestica
Malus baccata
Docynia indica
Rhaphiolepis petiolata
Rhaphiolepis elliptica
Eriobotrya japonica
Rhaphiolepis bengalensis
Hippophae salicifolia
Elaeagnus umbellata
Elaeagnus caudata
Elaeagnus angustifolia
Rhamnus virgata
Scutia myrtina
Ziziphus oenopolia
Colubrina asiatica
Hovenia dulcis
Ziziphus incurva
Ziziphus rugosa
Ziziphus jujuba
Ziziphus nummularia
Ziziphus mauritiana
Ulmus lanceifolia
Holoptelea integrifolia
Aphananthe cuspidata
Celtis tetrandra
Celtis timorensis
Celtis philippensis
Trema cannabina
Trema tomentosum
Trema politoria
Trema orientale
Oreocnide integrifolia
Dendrocnide sinuata
Debregeasia longifolia
Boehmeria penduliflora
Sarcochlamys pulcherrima
Debregeasia saeneb
Boehmeria depauperata
Boehmeria caudata
Taxotrophis taxoides
Morus serrata
Morus macroura
Morus indica
Morus alba
Streblus asper
Artocarpus altilis
Artocarpus gomezianus
Artocarpus heterophyllus
Artocarpus hirsutus
Artocarpus chama
Antiaris toxicaria
Broussonetia papyrifera
Ficus beddomei
Ficus dalhousiae
Ficus glaberrima
Ficus talbotii
Ficus amplissima
Ficus rumphii
Ficus retusa
Ficus curtipes
Ficus elastica
Ficus benjamina
Ficus drupacea
Ficus pubilimba
Ficus benghalensis
Ficus altissima
Ficus palmata
Ficus callosa
Ficus magnoliifolia
Ficus nervosa
Ficus racemosa
Ficus arnottiana
Ficus microcarpa
Ficus variegata
Ficus fistulosa
Ficus auriculata
Ficus prostrata
Ficus semicordata
Ficus hookeriana
Ficus tsjakela
Ficus virens
Ficus religiosa
Ficus geniculata
Ficus lacor
Ficus caulocarpa
Ficus subincisa
Ficus cyrtophylla
Ficus ampelos
Ficus tinctoria
Ficus subulata
Ficus neriifolia
Ficus ischnopoda
Ficus erecta
Ficus chartacea
Ficus simplicissima
Ficus fulva
Ficus carica