# Reconstruction of the Ancestral Plastid Genome in Gera between Genome Rearrangements, Repeats, and Nucle

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Citation Report

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A precise chloroplast genome of Nelumbo nucifera (Nelumbonaceae) evaluated with Sanger, Illumina MiSeq, and PacBio RS II sequencing platforms: insight into the plastid evolution of basal eudicots. BMC Plant Biology, 2014, 14, 289. | 1.6 | 80 |
| 2 | Complete Plastome Sequences from Glycine syndetika and Six Additional Perennial Wild Relatives of Soybean. G3: Genes, Genomes, Genetics, 2014, 4, 2023-2033. | 0.8 | 26 |
| 3 | Analyses of Charophyte Chloroplast Genomes Help Characterize the Ancestral Chloroplast Genome of Land Plants. Genome Biology and Evolution, 2014, 6, 897-911. | 1.1 | 62 |
| 4 | Evolutionary and biotechnology implications of plastid genome variation in the invertedâ€repeatâ€lacking clade of legumes. Plant Biotechnology Journal, 2014, 12, 743-754. | 4.1 | 146 |
| 5 | The Plastid Genomes of Flowering Plants. Methods in Molecular Biology, 2014, 1132, 3-38. | 0.4 | 151 |
| 6 | A recurring syndrome of accelerated plastid genome evolution in the angiosperm tribe Sileneae (Caryophyllaceae). Molecular Phylogenetics and Evolution, 2014, 72, 82-89. | 1.2 | 133 |
| 7 | Phylogenetic signal detection from an ancient rapid radiation: Effects of noise reduction, long-branch attraction, and model selection in crown clade Apocynaceae. Molecular Phylogenetics and Evolution, 2014, 80, 169-185. | 1.2 | 63 |
| 8 | Evolutionary Dynamics of the Mitochondrial Genome in the Evaniomorpha (Hymenoptera)â€"A Group with an Intermediate Rate of Gene Rearrangement. Genome Biology and Evolution, 2014, 6, 1862-1874. | 1.1 | 47 |
| 9 | Complete sequences of organelle genomes from the medicinal plant Rhazya stricta(Apocynaceae) and contrasting patterns of mitochondrial genome evolution across asterids. BMC Genomics, 2014, 15, 405. | 1.2 | 73 |
| 10 | On the adaptive value of cytoplasmic genomes in plants. Molecular Ecology, 2014, 23, 4899-4911. | 2.0 | 129 |
| 11 | Serial Gene Losses and Foreign DNA Underlie Size and Sequence Variation in the Plastid Genomes of Diatoms. Genome Biology and Evolution, 2014, 6, 644-654. | 1.1 | 72 |
| 12 | Plastid genome sequences of legumes reveal parallel inversions and multiple losses of rps16 in papilionoids. Journal of Systematics and Evolution, 2015, 53, 458-468. | 1.6 | 125 |
| 13 | Mimosoid legume plastome evolution: IR expansion, tandem repeat expansions and accelerated rate of evolution in clpP. Scientific Reports, 2015, 5, 16958. | 1.6 | 125 |
| 14 | Dynamic evolution of Geranium mitochondrial genomes through multiple horizontal and intracellular gene transfers. New Phytologist, 2015, 208, 570-583. | 3.5 | 84 |
| 15 | Evolutionary reversion of editing sites of ndh genes suggests their origin in the Permian-Triassic, before the increase of atmospheric CO2. Frontiers in Ecology and Evolution, 2015, 3, . | 1.1 | 2 |
| 16 | NDH expression marks major transitions in plant evolution and reveals coordinate intracellular gene loss. BMC Plant Biology, 2015, 15, 100. | 1.6 | 89 |
| 17 | Dynamic Evolution of the Chloroplast Genome in the Green Algal Classes Pedinophyceae and Trebouxiophyceae. Genome Biology and Evolution, 2015, 7, 2062-2082. | 1.1 | 72 |
| 18 | A Comparative Analysis of Whole Plastid Genomes from the Apiales: Expansion and Contraction of the Inverted Repeat, Mitochondrial to Plastid Transfer of DNA, and Identification of Highly Divergent Noncoding Regions. Systematic Botany, 2015, 40, 336-351. | 0.2 | 166 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Coordinated Rates of Evolution between Interacting Plastid and Nuclear Genes in Geraniaceae. Plant Cell, 2015, 27, 563-573. | 3.1 | 57 |
| 20 | Exceptional reduction of the plastid genome of saguaro cactus (Carnegiea gigantea): Loss of the ndh gene suite and inverted repeat. American Journal of Botany, 2015, 102, 1115-1127. | 0.8 | 137 |
| 21 | The chloroplast genome of the hexaploid Spartina maritima (Poaceae, Chloridoideae): Comparative analyses and molecular dating. Molecular Phylogenetics and Evolution, 2015, 93, 5-16. | 1.2 | 66 |
| 22 | Complete plastome sequence of Thalictrum coreanum (Ranunculaceae) and transfer of the rpl32 gene to the nucleus in the ancestor of the subfamily Thalictroideae. BMC Plant Biology, 2015, 15, 40. | 1.6 | 71 |
| 23 | The location and translocation of ndh genes of chloroplast origin in the Orchidaceae family. Scientific Reports, 2015, 5, 9040. | 1.6 | 143 |
| 24 | Plastid RNA polymerases: orchestration of enzymes with different evolutionary origins controls chloroplast biogenesis during the plant life cycle. Journal of Experimental Botany, 2015, 66, 6957-6973. | 2.4 | 108 |
| 25 | The Largest Plastid Genome of Monocots: a Novel Genome Type Containing AT Residue Repeats in the Slipper Orchid Cypripedium japonicum. Plant Molecular Biology Reporter, 2015, 33, 1210-1220. | 1.0 | 23 |
| 26 | The Complete Chloroplast Genome Sequences of Five Epimedium Species: Lights into Phylogenetic and Taxonomic Analyses. Frontiers in Plant Science, 2016, 7, 306. | 1.7 | 185 |
| 27 | Comparative Chloroplast Genome Analyses of Streptophyte Green Algae Uncover Major Structural Alterations in the Klebsormidiophyceae, Coleochaetophyceae and Zygnematophyceae. Frontiers in Plant Science, 2016, 7, 697. | 1.7 | 62 |
| 28 | Comparative Analysis of the Complete Chloroplast Genomes of Five Quercus Species. Frontiers in Plant Science, 2016, 07, 959. | 1.7 | 191 |
| 29 | Comparative Transcriptome and Chloroplast Genome Analyses of Two Related Dipteronia Species. Frontiers in Plant Science, 2016, 7, 1512. | 1.7 | 46 |
| 30 | Divergence of RNA polymerase Î± subunits in angiosperm plastid genomes is mediated by genomic rearrangement. Scientific Reports, 2016, 6, 24595. | 1.6 | 47 |
| 31 | Positive Selection in Rapidly Evolving Plastidâ€“Nuclear Enzyme Complexes. Genetics, 2016, 204, 1507-1522. | 1.2 | 69 |
| 32 | Genus-wide screening reveals four distinct types of structural plastid genome organization in Pelargonium (Geraniaceae). Genome Biology and Evolution, 2017, 9, evw271. | 1.1 | 22 |
| 33 | Complete Plastome Sequence of Ludwigia octovalvis (Onagraceae), a Globally Distributed Wetland Plant. Genome Announcements, 2016, 4, . | 0.8 | 4 |
| 34 | Large-Scale Comparative Analysis Reveals the Mechanisms Driving Plastomic Compaction, Reduction, and Inversions in Conifers II (Cupressophytes). Genome Biology and Evolution, 2016, 8, evw278. | 1.1 | 41 |
| 35 | Variable presence of the inverted repeat and plastome stability inErodium. Annals of Botany, 2016, 117, 1209-1220. | 1.4 | 94 |
| 36 | Coevolution between Nuclear-Encoded DNA Replication, Recombination, and Repair Genes and Plastid Genome Complexity. Genome Biology and Evolution, 2016, 8, 622-634. | 1.1 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Loss of aTrans-Splicingnad1Intron from Geraniaceae and Transfer of the Maturase GenematRto the Nucleus inPelargonium. Genome Biology and Evolution, 2016, 8, 3193-3201. | 1.1 | 22 |
| 38 | Parallel evolution of highly conserved plastid genome architecture in red seaweeds and seed plants. BMC Biology, 2016, 14, 75. | 1.7 | 72 |
| 39 | Plastid phylogenomics and molecular evolution of Alismatales. Cladistics, 2016, 32, 160-178. | 1.5 | 98 |
| 40 | Chloroplast genomes: diversity, evolution, and applications in genetic engineering. Genome Biology, 2016, 17, 134. | 3.8 | 1,013 |
| 41 | Reconstruction of ancestral chromosome architecture and gene repertoire reveals principles of genome evolution in a model yeast genus. Genome Research, 2016, 26, 918-932. | 2.4 | 95 |
| 42 | Plastidâ€“Nuclear Interaction and Accelerated Coevolution in Plastid Ribosomal Genes in Geraniaceae. Genome Biology and Evolution, 2016, 8, 1824-1838. | 1.1 | 68 |
| 43 | Plastomes of Mimosoideae: structural and size variation, sequence divergence, and phylogenetic implication. Tree Genetics and Genomes, 2017, 13, 1. | 0.6 | 56 |
| 44 | Recombinationâ€dependent replication and gene conversion homogenize repeat sequences and diversify plastid genome structure. American Journal of Botany, 2017, 104, 559-572. | 0.8 | 86 |
| 45 | Plastome-Wide Nucleotide Substitution Rates Reveal Accelerated Rates in Papilionoideae and Correlations with Genome Features Across Legume Subfamilies. Journal of Molecular Evolution, 2017, 84, 187-203. | 0.8 | 45 |
| 46 | Species-level phylogeny, fruit evolution and diversification history of Geranium (Geraniaceae). Molecular Phylogenetics and Evolution, 2017, 110, 134-149. | 1.2 | 26 |
| 47 | Expansion of inverted repeat does not decrease substitution rates in Pelargonium plastid genomes. New Phytologist, 2017, 214, 842-851. | 3.5 | 99 |
| 48 | Plastome Evolution in the Sole Hemiparasitic Genus Laurel Dodder (Cassytha) and Insights into the Plastid Phylogenomics of Lauraceae. Genome Biology and Evolution, 2017, 9, 2604-2614. | 1.1 | 36 |
| 49 | Comparative Analysis of Four Buckwheat Species Based on Morphology and Complete Chloroplast Genome Sequences. Scientific Reports, 2017, 7, 6514. | 1.6 | 34 |
| 50 | Plastome Sequencing of Ten Nonmodel Crop Species Uncovers a Large Insertion of Mitochondrial DNA in Cashew. Plant Genome, 2017, 10, plantgenome2017.03.0020. | 1.6 | 56 |
| 51 | Plastid genome structure and phylogenomics of Nymphaeales: conserved gene order and new insights into relationships. Plant Systematics and Evolution, 2017, 303, 1251-1270. | 0.3 | 41 |
| 52 | The first complete plastome sequence of the basal asterid family Styracaceae (Ericales) reveals a large inversion. Plant Systematics and Evolution, 2017, 303, 61-70. | 0.3 | 18 |
| 53 | Contrasting Patterns of Nucleotide Substitution Rates Provide Insight into Dynamic Evolution of Plastid and Mitochondrial Genomes of Geranium. Genome Biology and Evolution, 2017, 9, 1766-1780. | 1.1 | 62 |
| 54 | Insights into the Existence of Isomeric Plastomes in Cupressoideae (Cupressaceae). Genome Biology and Evolution, 2017, 9, 1110-1119. | 1.1 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | The evolutionary fate of the chloroplast and nuclear rps16 genes as revealed through the sequencing and comparative analyses of four novel legume chloroplast genomes from Lupinus. DNA Research, 2017, 24, 343-358. | 1.5 | 96 |
| 56 | Completion of the Chloroplast Genomes of Five Chinese Juglans and Their Contribution to Chloroplast Phylogeny. Frontiers in Plant Science, 2016, 7, 1955. | 1.7 | 110 |
| 57 | Comparative Analysis of the Complete Plastomes of Apostasia wallichii and Neuwiedia singapureana (Apostasioideae) Reveals Different Evolutionary Dynamics of IR/SSC Boundary among Photosynthetic Orchids. Frontiers in Plant Science, 2017, 8, 1713. | 1.7 | 29 |
| 58 | Comparative Analysis of the Complete Chloroplast Genome of Four Endangered Herbals of Notopterygium. Genes, 2017, 8, 124. | 1.0 | 54 |
| 59 | Independent degradation in genes of the plastid ndh gene family in species of the orchid genus Cymbidium (Orchidaceae; Epidendroideae). PLoS ONE, 2017, 12, e0187318. | 1.1 | 32 |
| 60 | Evolution of the Plastid Genomes in Diatoms. Advances in Botanical Research, 2018, 85, 129-155. | 0.5 | 51 |
| 61 | Plastid phylogenomics resolves infrafamilial relationships of the Styracaceae and sheds light on the backbone relationships of the Ericales. Molecular Phylogenetics and Evolution, 2018, 121, 198-211. | 1.2 | 42 |
| 62 | The complete plastome of macaw palm [Acrocomia aculeata (Jacq.) Lodd. ex Mart.] and extensive molecular analyses of the evolution of plastid genes in Arecaceae. Planta, 2018, 247, 1011-1030. | 1.6 | 38 |
| 63 | The complete chloroplast genome sequence of Fritillaria thunbergii Miq., an important medicinal plant, and identification of DNA markers to authenticate Fritillariae Bulbus. Horticulture Environment and Biotechnology, 2018, 59, 71-80. | 0.7 | 7 |
| 64 | Evolution of the Plastid Genome in Green Algae. Advances in Botanical Research, 2018, , 157-193. | 0.5 | 36 |
| 65 | Organellar phylogenomics inform systematics in the green algal family Hydrodictyaceae (Chlorophyceae) and provide clues to the complex evolutionary history of plastid genomes in the green algal tree of life. American Journal of Botany, 2018, 105, 315-329. | 0.8 | 23 |
| 66 | The Linum usitatissimum L. plastome reveals atypical structural evolution, new editing sites, and the phylogenetic position of Linaceae within Malpighiales. Plant Cell Reports, 2018, 37, 307-328. | 2.8 | 43 |
| 67 | The Intertwined Chloroplast and Nuclear Genome Coevolution in Plants. , 0, , . | | 9 |
| 68 | Reconfiguration of the plastid genome in Lamprocapnos spectabilis: IR boundary shifting, inversion, and intraspecific variation. Scientific Reports, 2018, 8, 13568. | 1.6 | 43 |
| 69 | High and Variable Rates of Repeat-Mediated Mitochondrial Genome Rearrangement in a Genus of Plants. Molecular Biology and Evolution, 2018, 35, 2773-2785. | 3.5 | 60 |
| 70 | Comparative Analyses of Chloroplast Genomes of Cucurbitaceae Species: Lights into Selective Pressures and Phylogenetic Relationships. Molecules, 2018, 23, 2165. | 1.7 | 21 |
| 71 | The chloroplast genome sequence of bittersweet (Solanum dulcamara): Plastid genome structure evolution in Solanaceae. PLoS ONE, 2018, 13, e0196069. | 1.1 | 84 |
| 72 | Aberration or Analogy? The Atypical Plastomes of Geraniaceae. Advances in Botanical Research, 2018, , 223-262. | 0.5 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Plastid Genome Comparative and Phylogenetic Analyses of the Key Genera in Fagaceae: Highlighting the Effect of Codon Composition Bias in Phylogenetic Inference. Frontiers in Plant Science, 2018, 9, 82. | 1.7 | 57 |
| 74 | Plastid Genome Evolution in the Early-Diverging Legume Subfamily Cercidoideae (Fabaceae). Frontiers in Plant Science, 2018, 9, 138. | 1.7 | 97 |
| 75 | Sequencing and Analysis of Strobilanthes cusia (Nees) Kuntze Chloroplast Genome Revealed the Rare Simultaneous Contraction and Expansion of the Inverted Repeat Region in Angiosperm. Frontiers in Plant Science, 2018, 9, 324. | 1.7 | 45 |
| 76 | Remarkably conserved plastid genomes of Quercus group Cerris in China: comparative and phylogenetic analyses. Nordic Journal of Botany, 2018, 36, e01921. | 0.2 | 13 |
| 77 | Comparative Plastid Genomes of Primula Species: Sequence Divergence and Phylogenetic Relationships. International Journal of Molecular Sciences, 2018, 19, 1050. | 1.8 | 43 |
| 78 | Bioinformatic Workflows for Generating Complete Plastid Genome Sequencesâ€"An Example from Cabomba (Cabombaceae) in the Context of the Phylogenomic Analysis of the Water-Lily Clade. Life, 2018, 8, 25. | 1.1 | 13 |
| 79 | Comparative Chloroplast Genome Analyses of Species in Gentiana section Cruciata (Gentianaceae) and the Development of Authentication Markers. International Journal of Molecular Sciences, 2018, 19, 1962. | 1.8 | 60 |
| 80 | Complete chloroplast genome sequence of Fagopyrum dibotrys: genome features, comparative analysis and phylogenetic relationships. Scientific Reports, 2018, 8, 12379. | 1.6 | 56 |
| 81 | Complex Analyses of Short Inverted Repeats in All Sequenced Chloroplast DNAs. BioMed Research International, 2018, 2018, 1-10. | 0.9 | 21 |
| 82 | Comparative Genomics and Phylogenetic Analysis Revealed the Chloroplast Genome Variation and Interspecific Relationships of Corylus (Betulaceae) Species. Frontiers in Plant Science, 2018, 9, 927. | 1.7 | 48 |
| 83 | Dynamic evolution and phylogenomic analysis of the chloroplast genome in Schisandraceae. Scientific Reports, 2018, 8, 9285. | 1.6 | 58 |
| 84 | Passiflora plastome sequencing reveals widespread genomic rearrangements. Journal of Systematics and Evolution, 2019, 57, 1-14. | 1.6 | 61 |
| 85 | Plastid Genomes of Five Species of Riverweeds (Podostemaceae): Structural Organization and Comparative Analysis in Malpighiales. Frontiers in Plant Science, 2019, 10, 1035. | 1.7 | 43 |
| 86 | Intergeneric Relationships within the Family Salicaceae s.l. based on Plastid Phylogenomics. International Journal of Molecular Sciences, 2019, 20, 3788. | 1.8 | 18 |
| 87 | Comparative Complete Chloroplast Genome Analyses and Contribution to the Understanding of Chloroplast Phylogeny and Adaptive Evolution in Subgenus Anguinum. Russian Journal of Genetics, 2019, 55, 872-884. | 0.2 | 2 |
| 88 | Comparative analysis of the complete chloroplast genome among Prunus mume, P. armeniaca, and P. salicina. Horticulture Research, 2019, 6, 89. | 2.9 | 91 |
| 89 | Genome assembly and phylogenomic data analyses using plastid data: Contrasting species tree estimation methods. Data in Brief, 2019, 25, 104271. | 0.5 | 4 |
| 90 | Plastid genome evolution in tribe Desmodieae (Fabaceae: Papilionoideae). PLoS ONE, 2019, 14, e0218743. | 1.1 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Plastome phylogenomics of Saussurea (Asteraceae: Cardueae). BMC Plant Biology, 2019, 19, 290. | 1.6 | 34 |
| 92 | The complete chloroplast genomes of two species in threatened monocot genus Caldesia in China. Genetica, 2019, 147, 381-390. | 0.5 | 4 |
| 93 | Complete chloroplast genome sequences of four Allium species: comparative and phylogenetic analyses. Scientific Reports, 2019, 9, 12250. | 1.6 | 71 |
| 94 | Highly accelerated rates of genomic rearrangements and nucleotide substitutions in plastid genomes of Passiflora subgenus Decaloba. Molecular Phylogenetics and Evolution, 2019, 138, 53-64. | 1.2 | 53 |
| 95 | The plastomes of Astrocaryum aculeatum G. Mey. and A. murumuru Mart. show a flip-flop recombination between two short inverted repeats. Planta, 2019, 250, 1229-1246. | 1.6 | 20 |
| 96 | Comparative Chloroplast Genomics at Low Taxonomic Levels: A Case Study Using Amphilophium (Bignonieae, Bignoniaceae). Frontiers in Plant Science, 2019, 10, 796. | 1.7 | 55 |
| 97 | Incongruence between gene trees and species trees and phylogenetic signal variation in plastid genes. Molecular Phylogenetics and Evolution, 2019, 138, 219-232. | 1.2 | 124 |
| 98 | The Complete Chloroplast Genome of Euphrasia regelii, Pseudogenization of ndh Genes and the Phylogenetic Relationships Within Orobanchaceae. Frontiers in Genetics, 2019, 10, 444. | 1.1 | 31 |
| 99 | The Unique Evolutionary Trajectory and Dynamic Conformations of DR and IR/DR-Coexisting Plastomes of the Early Vascular Plant Selaginellaceae (Lycophyte). Genome Biology and Evolution, 2019, 11, 1258-1274. | 1.1 | 26 |
| 100 | Lost and Found: Return of the Inverted Repeat in the Legume Clade Defined by Its Absence. Genome Biology and Evolution, 2019, 11, 1321-1333. | 1.1 | 67 |
| 101 | Sequencing and Comparative Analysis of the Chloroplast Genome of Angelica polymorpha and the Development of a Novel Indel Marker for Species Identification. Molecules, 2019, 24, 1038. | 1.7 | 38 |
| 102 | Plastome based phylogenetics and younger crown node age in Pelargonium. Molecular Phylogenetics and Evolution, 2019, 137, 33-43. | 1.2 | 19 |
| 103 | The complete chloroplast genome sequence of Melliodendron xylocarpum (Styracaceae). Mitochondrial DNA Part B: Resources, 2019, 4, 3677-3678. | 0.2 | 0 |
| 104 | Complete Chloroplast Genomes of Vachellia nilotica and Senegalia senegal: Comparative Genomics and Phylogenomic Placement in a New Generic System. PLoS ONE, 2019, 14, e0225469. | 1.1 | 11 |
| 105 | New Insights on Lilium Phylogeny Based on a Comparative Phylogenomic Study Using Complete Plastome Sequences. Plants, 2019, 8, 547. | 1.6 | 13 |
| 106 | Extreme variation in rates of evolution in the plastid Clp protease complex. Plant Journal, 2019, 98, 243-259. | 2.8 | 41 |
| 107 | Lycophyte plastid genomics: extreme variation in <scp>GC</scp>, gene and intron content and multiple inversions between a direct and inverted orientation of the <scp>rRNA</scp> repeat. New Phytologist, 2019, 222, 1061-1075. | 3.5 | 51 |
| 108 | Enlarged and highly repetitive plastome of Lagarostrobos and plastid phylogenomics of Podocarpaceae. Molecular Phylogenetics and Evolution, 2019, 133, 24-32. | 1.2 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Plastome phylogenomic study of Gentianeae (Gentianaceae): widespread gene tree discordance and its association with evolutionary rate heterogeneity of plastid genes. BMC Plant Biology, 2020, 20, 340. | 1.6 | 35 |
| 110 | Patterns and Rates of Plastid rps12 Gene Evolution Inferred in a Phylogenetic Context using Plastomic Data of Ferns. Scientific Reports, 2020, 10, 9394. | 1.6 | 17 |
| 111 | Genome skimming and exploration of DNA barcodes for Taiwan endemic cypresses. Scientific Reports, 2020, 10, 20650. | 1.6 | 2 |
| 112 | Plastomes of eight Ligusticum species: characterization, genome evolution, and phylogenetic relationships. BMC Plant Biology, 2020, 20, 519. | 1.6 | 42 |
| 113 | A Repertory of Rearrangements and the Loss of an Inverted Repeat Region in Passiflora Chloroplast Genomes. Genome Biology and Evolution, 2020, 12, 1841-1857. | 1.1 | 49 |
| 114 | Identification of High Molecular Variation Loci in Complete Chloroplast Genomes of Mammillaria (Cactaceae, Caryophyllales). Genes, 2020, 11, 830. | 1.0 | 8 |
| 115 | The complete plastome of Passiflora cirrhiflora A. Juss.: structural features, RNA editing sites, hotspots of nucleotide diversity and molecular markers within the subgenus Deidamioides. Revista Brasileira De Botanica, 2020, 43, 839-853. | 0.5 | 5 |
| 116 | Nucleotide substitution rates of diatom plastid encoded protein genes are positively correlated with genome architecture. Scientific Reports, 2020, 10, 14358. | 1.6 | 7 |
| 117 | GetOrganelle: a fast and versatile toolkit for accurate de novo assembly of organelle genomes. Genome Biology, 2020, 21, 241. | 3.8 | 1,538 |
| 118 | Complete Chloroplast Genome of Japanese Larch (Larix kaempferi): Insights into Intraspecific Variation with an Isolated Northern Limit Population. Forests, 2020, 11, 884. | 0.9 | 12 |
| 119 | Unprecedented Intraindividual Structural Heteroplasmy in Eleocharis (Cyperaceae, Poales) Plastomes. Genome Biology and Evolution, 2020, 12, 641-655. | 1.1 | 22 |
| 120 | Complete chloroplast genome sequence of Barleria prionitis, comparative chloroplast genomics and phylogenetic relationships among Acanthoideae. BMC Genomics, 2020, 21, 393. | 1.2 | 42 |
| 121 | Insights Into Chloroplast Genome Evolution Across Opuntioideae (Cactaceae) Reveals Robust Yet Sometimes Conflicting Phylogenetic Topologies. Frontiers in Plant Science, 2020, 11, 729. | 1.7 | 38 |
| 122 | Plastome Evolution in Dolomiaea (Asteraceae, Cardueae) Using Phylogenomic and Comparative Analyses. Frontiers in Plant Science, 2020, 11, 376. | 1.7 | 18 |
| 124 | Plastome Evolution and Phylogeny of Orchidaceae, With 24 New Sequences. Frontiers in Plant Science, 2020, 11, 22. | 1.7 | 62 |
| 125 | New Insights Into the Plastome Evolution of the Millettioid/Phaseoloid Clade (Papilionoideae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 1.7 | 21 |
| 126 | Complete chloroplast genome sequence determination of Rheum species and comparative chloroplast genomics for the members of Rumiceae. Plant Cell Reports, 2020, 39, 811-824. | 2.8 | 25 |
| 127 | The Increase of Simple Sequence Repeats during Diversification of Marchantiidae, An Early Land Plant Lineage, Leads to the First Known Expansion of Inverted Repeats in the Evolutionarily-Stable Structure of Liverwort Plastomes. Genes, 2020, 11, 299. | 1.0 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 128 | Plastome Structural Conservation and Evolution in the Clusioid Clade of Malpighiales. Scientific Reports, 2020, 10, 9091. | 1.6 | 22 |
| 129 | Degradation of key photosynthetic genes in the critically endangered semi-aquatic flowering plant Saniculiphyllum guangxiense (Saxifragaceae). BMC Plant Biology, 2020, 20, 324. | 1.6 | 14 |
| 130 | The complete chloroplast genome of Styrax dasyanthus Perkins (Styracaceae). Mitochondrial DNA Part B: Resources, 2020, 5, 961-962. | 0.2 | 0 |
| 131 | Organelle inheritance and genome architecture variation in isogamous brown algae. Scientific Reports, 2020, 10, 2048. | 1.6 | 12 |
| 132 | Plastidâ€targeted forms of restriction endonucleases enhance the plastid genome rearrangement rate and trigger the reorganization of its genomic architecture. Plant Journal, 2020, 102, 1042-1057. | 2.8 | 5 |
| 133 | Analysis of complete chloroplast genomes of Curcuma and the contribution to phylogeny and adaptive evolution. Gene, 2020, 732, 144355. | 1.0 | 37 |
| 134 | The complete chloroplast genome of Myriophyllum spicatum reveals a 4â€kb inversion and new insights regarding plastome evolution in Haloragaceae. Ecology and Evolution, 2020, 10, 3090-3102. | 0.8 | 7 |
| 135 | The complete plastome sequences of five Aponogeton species (Aponogetonaceae): Insights into the structural organization and mutational hotspots. Plant Diversity, 2020, 42, 334-342. | 1.8 | 10 |
| 136 | Wide crossing diversify mitogenomes of rice. BMC Plant Biology, 2020, 20, 159. | 1.6 | 5 |
| 137 | High Sequence Divergence but Limited Architectural Rearrangements in Organelle Genomes of Cyanophora (Glaucophyta) Species. Journal of Eukaryotic Microbiology, 2021, 68, e12831. | 0.8 | 0 |
| 138 | Repeats in mitochondrial and chloroplast genomes characterize the ecotypes of the Oryza. Molecular Breeding, 2021, 41, 1. | 1.0 | 1 |
| 139 | Differentiation of Hedyotis diffusa and Common Adulterants Based on Chloroplast Genome Sequencing and DNA Barcoding Markers. Plants, 2021, 10, 161. | 1.6 | 14 |
| 140 | Comparative Chloroplast Genomics of Corydalis Species (Papaveraceae): Evolutionary Perspectives on Their Unusual Large Scale Rearrangements. Frontiers in Plant Science, 2020, 11, 600354. | 1.7 | 30 |
| 141 | Plastid Genomes of Flowering Plants: Essential Principles. Methods in Molecular Biology, 2021, 2317, 3-47. | 0.4 | 16 |
| 143 | Plastid Genomes of the Early Vascular Plant Genus Selaginella Have Unusual Direct Repeat Structures and Drastically Reduced Gene Numbers. International Journal of Molecular Sciences, 2021, 22, 641. | 1.8 | 10 |
| 144 | Mitochondrial and Chloroplast Genomes. Compendium of Plant Genomes, 2021, , 133-143. | 0.3 | 1 |
| 146 | Comparative Analyses of Euonymus Chloroplast Genomes: Genetic Structure, Screening for Loci With Suitable Polymorphism, Positive Selection Genes, and Phylogenetic Relationships Within Celastrineae. Frontiers in Plant Science, 2020, 11, 593984. | 1.7 | 25 |
| 147 | Two Korean Endemic Clematis Chloroplast Genomes: Inversion, Reposition, Expansion of the Inverted Repeat Region, Phylogenetic Analysis, and Nucleotide Substitution Rates. Plants, 2021, 10, 397. | 1.6 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 148 | The complete chloroplast genome of Thalictrum baicalense Turcz. ex Ledeb. Mitochondrial DNA Part B: Resources, 2021, 6, 437-438. | 0.2 | 2 |
| 149 | The complete chloroplast genome of Stauntonia chinensis and compared analysis revealed adaptive evolution of subfamily Lardizabaloideae species in China. BMC Genomics, 2021, 22, 161. | 1.2 | 26 |
| 150 | Complete chloroplast genome sequence of Adenophora racemosa (Campanulaceae): Comparative analysis with congeneric species. PLoS ONE, 2021, 16, e0248788. | 1.1 | 9 |
| 151 | Structural Mutations in the Organellar Genomes of Valeriana sambucifolia f. dageletiana (Nakai. ex) Tj ETQq1 1 0.784314 rgBT /Overlock 3770. | 1.8 | 3 |
| 152 | Plastome structure and phylogenetic relationships of Styracaceae (Ericales). Bmc Ecology and Evolution, 2021, 21, 103. | 0.7 | 13 |
| 153 | The chicken or the egg? Plastome evolution and an independent loss of the inverted repeat in papilionoid legumes. Plant Journal, 2021, 107, 861-875. | 2.8 | 29 |
| 154 | Complete Chloroplast Genome Sequence and Comparative and Phylogenetic Analyses of the Cultivated Cyperus esculentus. Diversity, 2021, 13, 405. | 0.7 | 14 |
| 155 | Plastid genomes and phylogenomics of liverworts (Marchantiophyta): Conserved genome structure but highest relative plastid substitution rate in land plants. Molecular Phylogenetics and Evolution, 2021, 161, 107171. | 1.2 | 12 |
| 156 | Comparative analysis of plastomes in Oxalidaceae: Phylogenetic relationships and potential molecular markers. Plant Diversity, 2021, 43, 281-291. | 1.8 | 12 |
| 157 | Backbone phylogeny and evolution of Apioideae (Apiaceae): New insights from phylogenomic analyses of plastome data. Molecular Phylogenetics and Evolution, 2021, 161, 107183. | 1.2 | 47 |
| 158 | Lineage-Specific Variation in IR Boundary Shift Events, Inversions, and Substitution Rates among Caprifoliaceae s.l. (Dipsacales) Plastomes. International Journal of Molecular Sciences, 2021, 22, 10485. | 1.8 | 4 |
| 159 | Extensive genomic rearrangements mediated by repetitive sequences in plastomes of Medicago and its relatives. BMC Plant Biology, 2021, 21, 421. | 1.6 | 25 |
| 160 | Plastomes from tribe Plantagineae (Plantaginaceae) reveal infrageneric structural synapormorphies and localized hypermutation for Plantago and functional loss of ndh genes from Littorella. Molecular Phylogenetics and Evolution, 2021, 162, 107217. | 1.2 | 23 |
| 161 | Plastome Structural Evolution and Homoplastic Inversions in Neo-Astragalus (Fabaceae). Genome Biology and Evolution, 2021, 13, . | 1.1 | 13 |
| 166 | Comparative chloroplast genomics of the genus Taxodium. BMC Genomics, 2020, 21, 114. | 1.2 | 23 |
| 167 | Distinctive Architecture of the Chloroplast Genome in the Chlorodendrophycean Green Algae Scherffelia dubia and Tetraselmis sp. CCMP 881. PLoS ONE, 2016, 11, e0148934. | 1.1 | 33 |
| 168 | Comparative analysis of complete plastid genomes from wild soybean (Glycine soja) and nine other Glycine species. PLoS ONE, 2017, 12, e0182281. | 1.1 | 53 |
| 169 | Proliferation of group II introns in the chloroplast genome of the green algaOedocladium carolinianum(Chlorophyceae). PeerJ, 2016, 4, e2627. | 0.9 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 170 | The complete chloroplast genome sequence ofHelwingia himalaica(Helwingiaceae, Aquifoliales) and a chloroplast phylogenomic analysis of the Campanulidae. PeerJ, 2016, 4, e2734. | 0.9 | 10 |
| 171 | The complete chloroplast genomes of three Betulaceae species: implications for molecular phylogeny and historical biogeography. PeerJ, 2019, 7, e6320. | 0.9 | 26 |
| 172 | A systematic comparison of eight new plastome sequences from Ipomoea L. PeerJ, 2019, 7, e6563. | 0.9 | 10 |
| 173 | Plastome of mycoheterotrophicBurmannia itoanaMak. (Burmanniaceae) exhibits extensive degradation and distinct rearrangements. PeerJ, 2019, 7, e7787. | 0.9 | 5 |
| 174 | Comparative analysis of chloroplast genomes for fiveDiclipteraspecies (Acanthaceae): molecular structure, phylogenetic relationships, and adaptive evolution. PeerJ, 2020, 8, e8450. | 0.9 | 29 |
| 177 | Comparative Analysis of Complete Chloroplast Genomes of 13 Species in Epilobium, Circaea, and Chamaenerion and Insights Into Phylogenetic Relationships of Onagraceae. Frontiers in Genetics, 2021, 12, 730495. | 1.1 | 6 |
| 178 | Phylogenomic and comparative analyses of Rheum (Polygonaceae, Polygonoideae). Journal of Systematics and Evolution, 2022, 60, 1229-1240. | 1.6 | 11 |
| 179 | A comparative analysis of the complete chloroplast genomes of three Chrysanthemum boreale strains. PeerJ, 2020, 8, e9448. | 0.9 | 13 |
| 180 | The Complete Chloroplast Genome of <i>Poa pratensis</i> (Poaceae), a High-Quality Forage. American Journal of Plant Sciences, 2021, 12, 1755-1760. | 0.3 | 1 |
| 181 | The chloroplast genome comparative characteristic of artificial breeding tree, a case about Broussonetia kazinoki ï¿½Broussonetia papyrifera. Biocell, 2022, 46, 803-819. | 0.4 | 6 |
| 182 | Comparative and Phylogenetic Analysis of Complete Plastomes among Aristidoideae Species (Poaceae). Biology, 2022, 11, 63. | 1.3 | 6 |
| 183 | ORTHOSKIM: In silico sequence capture from genomic and transcriptomic libraries for phylogenomic and barcoding applications. Molecular Ecology Resources, 2022, 22, 2018-2037. | 2.2 | 7 |
| 184 | The complete chloroplast genome sequencing analysis revealed an unusual IRs reduction in three species of subfamily Zygophylloideae. PLoS ONE, 2022, 17, e0263253. | 1.1 | 11 |
| 185 | The Complete Chloroplast Genome Sequence of Cicer bijugum, Genome Organization, and Comparison with Related Species. Current Genomics, 2022, 23, 50-65. | 0.7 | 3 |
| 186 | Plastome phylogenomics and historical biogeography of aquatic plant genus Hydrocharis (Hydrocharitaceae). BMC Plant Biology, 2022, 22, 106. | 1.6 | 5 |
| 187 | Comparative analysis of complete Ilex (Aquifoliaceae) chloroplast genomes: insights into evolutionary dynamics and phylogenetic relationships. BMC Genomics, 2022, 23, 203. | 1.2 | 11 |
| 188 | Towards the plastome evolution and phylogeny of Cycas L. (Cycadaceae): molecular-morphology discordance and gene tree space analysis. BMC Plant Biology, 2022, 22, 116. | 1.6 | 7 |
| 189 | Comparative Plastome Analysis of Three Amaryllidaceae Subfamilies: Insights into Variation of Genome Characteristics, Phylogeny, and Adaptive Evolution. BioMed Research International, 2022, 2022, 1-20. | 0.9 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 190 | Comparative and phylogenetic analyses of six Kenya Polystachya (Orchidaceae) species based on the complete chloroplast genome sequences. BMC Plant Biology, 2022, 22, 177. | 1.6 | 37 |
| 191 | Variation in Plastome Sizes Accompanied by Evolutionary History in Monogenomic Triticeae (Poaceae:) Tj ETQq1 1 0.784314 rgBT /Over | 1.7 | 7 |
| 192 | The complete chloroplast genome sequence of Quercus ningangensis and its phylogenetic implication. Plant and Fungal Systematics, 2021, 66, 155-165. | 0.7 | 7 |
| 193 | A genome-wide analysis of the chloroplast NADH dehydrogenase-like genes in Zostera marina. Journal of Oceanology and Limnology, 2022, 40, 656-677. | 0.6 | 2 |
| 194 | Repeatome-Based Phylogenetics in Pelargonium Section Ciconium (Sweet) Harvey. Genome Biology and Evolution, 2021, 13, . | 1.1 | 4 |
| 195 | Plastome structure, phylogenomics and evolution of plastid genes in Swertia (Gentianaceae) in the Qing-Tibetan Plateau. BMC Plant Biology, 2022, 22, 195. | 1.6 | 11 |
| 196 | Structure and features of the complete chloroplast genome of Salix triandroides (Salicaceae). Biotechnology and Biotechnological Equipment, 2022, 36, 148-158. | 0.5 | 1 |
| 231 | Gene loss, genome rearrangement, and accelerated substitution rates in plastid genome of Hypericum ascyron (Hypericaceae). BMC Plant Biology, 2022, 22, 135. | 1.6 | 16 |
| 232 | Phylogenomic approaches untangle early divergences and complex diversifications of the olive plant family. BMC Biology, 2022, 20, 92. | 1.7 | 30 |
| 233 | ï»¿Terniopsis yongtaiensis (Podostemaceae), a new species from South East China based on morphological and genomic data. PhytoKeys, 2022, 194, 105-122. | 0.4 | 2 |
| 234 | The variability of nuclear DNA content of different Pelargonium species estimated by flow cytometry. PLoS ONE, 2022, 17, e0267496. | 1.1 | 4 |
| 235 | Mitochondrial phylogenomics provides insights into the phylogeny and evolution of spiders (Arthropoda: Araneae). Zoological Research, 2022, 43, 566-584. | 0.9 | 5 |
| 236 | Chloroplast genomes and nuclear sequences reveal the interspecific relationships of Crataegus bretschneideri C. K. Schneid. and related species in China. Tree Genetics and Genomes, 2022, 18, . | 0.6 | 1 |
| 237 | The evolution of extremely diverged plastomes in Selaginellaceae (lycophyte) is driven by repeat patterns and the underlying <scp>DNA</scp> maintenance machinery. Plant Journal, 2022, 111, 768-784. | 2.8 | 8 |
| 240 | Comparative Analysis of the Complete Chloroplast Genomes of Eight Ficus Species and Insights into the Phylogenetic Relationships of Ficus. Life, 2022, 12, 848. | 1.1 | 2 |
| 241 | ï»¿Polypleurum chinense (Podostemaceae), a new species from Fujian, China, based on morphological and genomic evidence. PhytoKeys, 0, 199, 167-186. | 0.4 | 1 |
| 242 | Plastid and mitochondrial phylogenomics reveal correlated substitution rate variation in Koenigia (Polygonoideae, Polygonaceae) and a reduced plastome for Koenigia delicatula including loss of all ndh genes. Molecular Phylogenetics and Evolution, 2022, 174, 107544. | 1.2 | 5 |
| 243 | The First Complete Chloroplast Genome Sequence and Phylogenetic Analysis of Pistachio (Pistacia) Tj ETQq1 1 0.784314 rgBT /Overlock | 0.7 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 244 | Complete Chloroplast Genome of an Endangered Species Quercus litseoides, and Its Comparative, Evolutionary, and Phylogenetic Study with Other Quercus Section Cyclobalanopsis Species. Genes, 2022, 13, 1184. | 1.0 | 11 |
| 245 | Comparative Chloroplast Genomics and Phylogenetic Analysis of Persicaria amphibia (Polygonaceae). Diversity, 2022, 14, 641. | 0.7 | 4 |
| 246 | Plastome structure of 8 Calanthe s.l. species (Orchidaceae): comparative genomics, phylogenetic analysis. BMC Plant Biology, 2022, 22, . | 1.6 | 7 |
| 247 | Phylogenetic analysis based on single-copy orthologous proteins in highly variable chloroplast genomes of Corydalis. Scientific Reports, 2022, 12, . | 1.6 | 1 |
| 248 | A Comprehensive Evolutionary Study of Chloroplast RNA Editing in Gymnosperms: A Novel Type of G-to-A RNA Editing Is Common in Gymnosperms. International Journal of Molecular Sciences, 2022, 23, 10844. | 1.8 | 0 |
| 249 | Plastome structure, phylogenomics, and divergence times of tribe Cinnamomeae (Lauraceae). BMC Genomics, 2022, 23, . | 1.2 | 7 |
| 250 | Newly reported chloroplast genome of Sinosenecio albonervius Y. Liu & Q. E. Yang and comparative analyses with other Sinosenecio species. BMC Genomics, 2022, 23, . | 1.2 | 13 |
| 251 | Plastomes of limestone karst gesneriad genera Petrocodon and Primulina, and the comparative plastid phylogenomics of Gesneriaceae. Scientific Reports, 2022, 12, . | 1.6 | 4 |
| 252 | Plastome Phylogenomics Provide Insight into the Evolution of Taxus. Forests, 2022, 13, 1590. | 0.9 | 0 |
| 253 | ï»¿Characterization of the plastome of Physalis cordata and comparative analysis of eight species of Physalis sensu stricto. PhytoKeys, 0, 210, 109-134. | 0.4 | 0 |
| 254 | Comparative plastomes of Carya species provide new insights into the plastomes evolution and maternal phylogeny of the genus. Frontiers in Plant Science, 0, 13, . | 1.7 | 9 |
| 255 | Comprehensive Comparative Analysis and Development of Molecular Markers for Dianthus Species Based on Complete Chloroplast Genome Sequences. International Journal of Molecular Sciences, 2022, 23, 12567. | 1.8 | 4 |
| 256 | Comparative Genomic Analysis Uncovers the Chloroplast Genome Variation and Phylogenetic Relationships of Camellia Species. Biomolecules, 2022, 12, 1474. | 1.8 | 1 |
| 257 | The associated evolution among the extensive RNA editing, GCâ€biased mutation, and PPR family expansion in the organelle genomes of Selaginellaceae. Journal of Systematics and Evolution, 2023, 61, 890-905. | 1.6 | 2 |
| 258 | The complete chloroplast genome of two Firmiana species and comparative analysis with other related species. Genetica, 2022, 150, 395-405. | 0.5 | 2 |
| 259 | Comparative Analysis of the Chloroplast Genome of Cardamine hupingshanensis and Phylogenetic Study of Cardamine. Genes, 2022, 13, 2116. | 1.0 | 2 |
| 260 | Plastome sequencing of South American Podocarpus species reveals low rearrangement rates despite ancient gondwanan disjunctions. Molecular Biology Reports, 2023, 50, 309-318. | 1.0 | 2 |
| 261 | Characterization of the Chloroplast Genome Structure of Gueldenstaedtia verna (Papilionoideae) and Comparative Analyses among IRLC Species. Forests, 2022, 13, 1942. | 0.9 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 262 | Structural characterization of four Rhododendron spp. chloroplast genomes and comparative analyses with other azaleas. Biocell, 2023, 47, 657-668. | 0.4 | 1 |
| 264 | Comparative chloroplast genomics provides insights into the genealogical relationships of endangered Tetraena mongolica and the chloroplast genome evolution of related Zygophyllaceae species. Frontiers in Genetics, 0, 13, . | 1.1 | 3 |
| 265 | Extensive reorganization of the chloroplast genome of Corydalis platycarpa: A comparative analysis of their organization and evolution with other Corydalis plastomes. Frontiers in Plant Science, 0, 13, . | 1.7 | 5 |
| 266 | Evolution of 101 Apocynaceae plastomes and phylogenetic implications. Molecular Phylogenetics and Evolution, 2023, 180, 107688. | 1.2 | 5 |
| 267 | Chloroplast genomes of four Carex species: Long repetitive sequences trigger dramatic changes in chloroplast genome structure. Frontiers in Plant Science, 0, 14, . | 1.7 | 8 |
| 268 | Characterization and phylogenetic analyses of ten complete plastomes of Spiraea species. BMC Genomics, 2023, 24, . | 1.2 | 2 |
| 269 | Rate accelerations in plastid and mitochondrial genomes of Cyperaceae occur in the same clades. Molecular Phylogenetics and Evolution, 2023, 182, 107760. | 1.2 | 3 |
| 270 | Phylogeny and adaptive evolution of subgenus Rhizirideum (Amaryllidaceae, Allium) based on plastid genomes. BMC Plant Biology, 2023, 23, . | 1.6 | 5 |
| 272 | Phylogenomics, phylogeography and germplasms authentication of the Rheum palmatum complex based on complete chloroplast genomes. Journal of Plant Research, 2023, 136, 291-304. | 1.2 | 3 |
| 273 | The dynamic history of plastome structure across aquatic subclass Alismatidae. BMC Plant Biology, 2023, 23, . | 1.6 | 0 |
| 274 | Plastid Genome Assembly Using Longâ€read data. Molecular Ecology Resources, 2023, 23, 1442-1457. | 2.2 | 4 |
| 275 | Comparative analysis of the organelle genomes of three Rhodiola species provide insights into their structural dynamics and sequence divergences. BMC Plant Biology, 2023, 23, . | 1.6 | 1 |
| 276 | Evolutionary differences in gene loss and pseudogenization among mycoheterotrophic orchids in the tribe Vanilleae (subfamily Vanilloideae). Frontiers in Plant Science, 0, 14, . | 1.7 | 0 |
| 277 | Comparative Analysis of Chloroplast Genome of Desmodium stryacifolium with Closely Related Legume Genome from the Phaseoloid Clade. International Journal of Molecular Sciences, 2023, 24, 6072. | 1.8 | 4 |
| 278 | Phylogenetic relationship and comparative analysis of the main Bupleuri Radix species in China. PeerJ, 0, 11, e15157. | 0.9 | 0 |
| 279 | Comparative Chloroplast Genome Analysis of Chinese Lacquer Tree (Toxicodendron vernicifluum,) Tj ETQq1 1 0.784314 rgBT /Overloc | 0.9 | 1 |