Fig. S1-1:

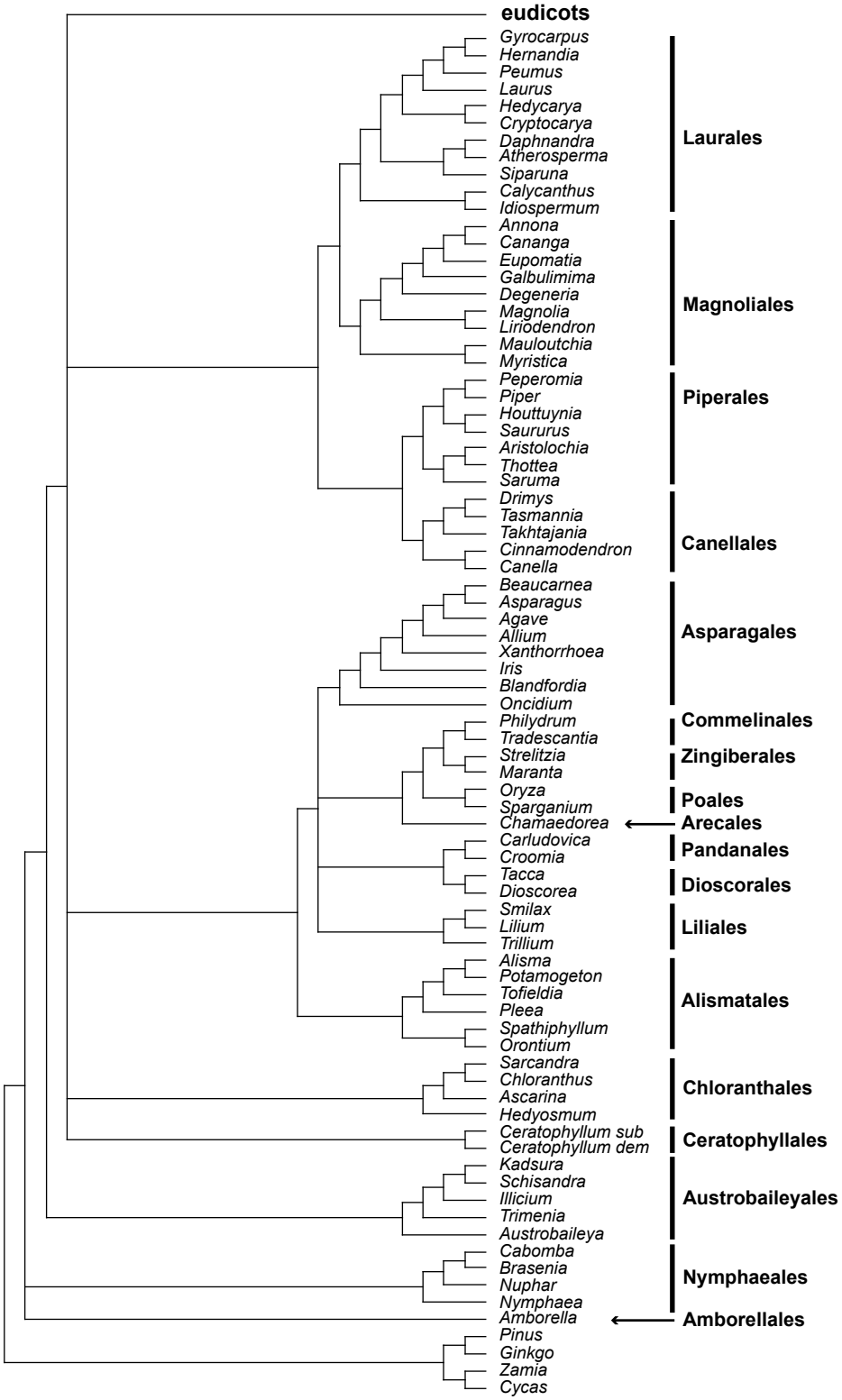

eudicots
Gyrocarpus
Hernandia
Peumus
Laurus
Hedycarya
Cryptocarya
Daphnandra
Atherosperma
Siparuna
Calycanthus
Idiospermum
Laurales
Annona
Cananga
Eupomatia
Galbulimima
Degeneria
Magnolia
Liriodendron
Mauloutchia
Myristica
Magnoliales
Peperomia
Piper
Houttuynia
Saururus
Aristolochia
Thottea
Saruma
Piperales
Drimys
Tasmannia
Takhtajania
Cinnamodendron
Canella
Canellales
Beaucarnea
Asparagus
Agave
Allium
Xanthorrhoea
Iris
Blandfordia
Oncidium
Asparagales
Philydrum
Tradescantia
Commelinales
Strelitzia
Maranta
Zingiberales
Oryza
Sparganium
Poales
Chamaedorea
Arecales
Carludovica
Croomia
Pandanales
Tacca
Dioscorea
Dioscorales
Smilax
Lilium
Trillium
Liliales
Alisma
Potamogeton
Tofieldia
Pleea
Spathiphyllum
Orontium
Alismatales
Sarcandra
Chloranthus
Ascarina
Hedyosmum
Chloranthales
Ceratophyllum sub
Ceratophyllum dem
Ceratophyllales
Kadsura
Schisandra
Illicium
Trimenia
Austrobaileya
Austrobaileyales
Cabomba
Brasenia
Nuphar
Nymphaea
Nymphaeales
Amborella
Amborellales
Pinus
Ginkgo
Zamia
Cycas

Fig. S1-2:

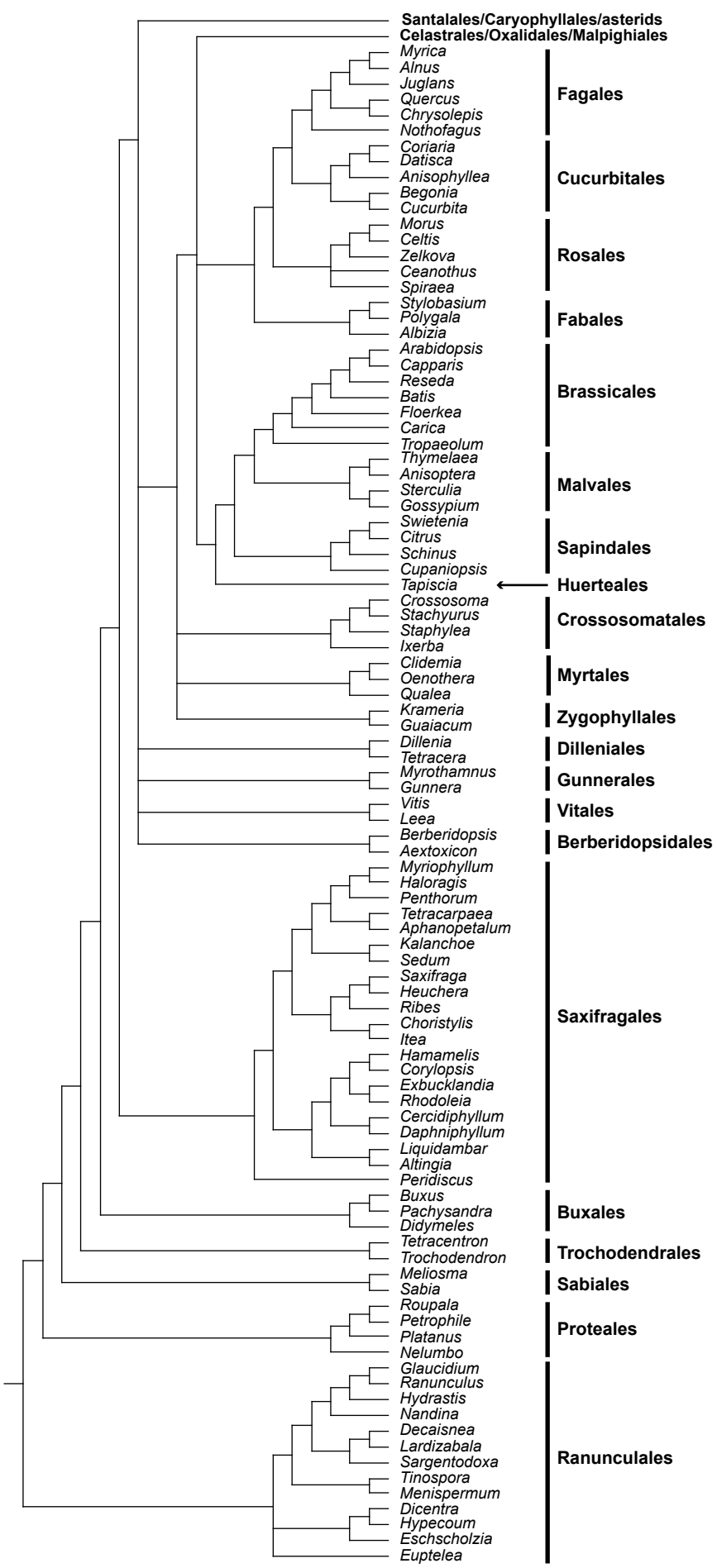
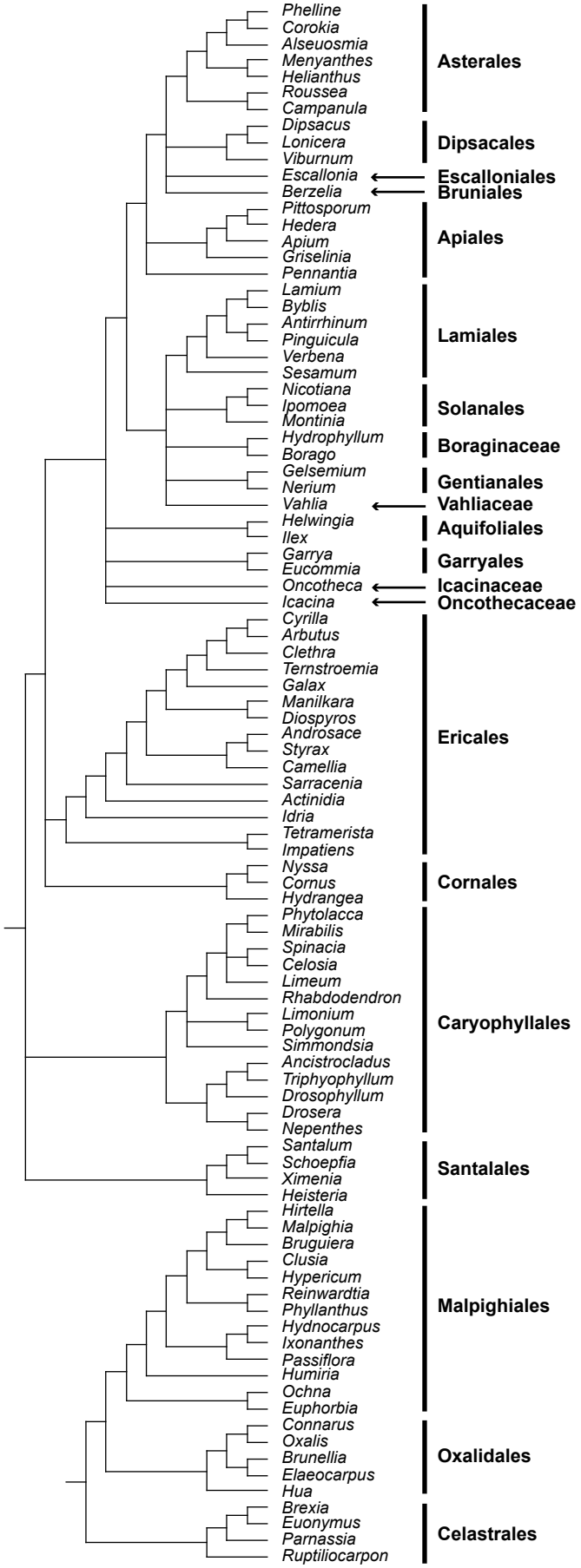

Santalales/Caryophyllales/asterids
Celastrales/Oxalidales/Malpighiales
Myrica
Alnus
Juglans
Quercus
Chrysolepis
Nothofagus
Fagales
Coriaria
Datisca
Anisophyllea
Begonia
Cucurbita
Cucurbitales
Morus
Celtis
Zelkova
Ceanothus
Spiraea
Rosales
Stylobasium
Polygala
Albizia
Fabales
Arabidopsis
Capparis
Reseda
Batis
Floerkea
Carica
Tropaeolum
Brassicales
Thymelaea
Anisoptera
Sterculia
Gossypium
Malvales
Swietenia
Citrus
Schinus
Cupaniopsis
Sapindales
Tapiscia
Huerteales
Crossosoma
Stachyurus
Staphylea
Ixerba
Crossosomatales
Clidemia
Oenothera
Qualea
Myrtales
Krameria
Guaiacum
Zygophyllales
Dillenia
Tetracera
Dilleniales
Myrothamnus
Gunnera
Gunnerales
Vitis
Leea
Vitales
Berberidopsis
Aextoxicon
Berberidopsidales
Myriophyllum
Haloragis
Penthorum
Tetracarpaea
Aphanopetalum
Kalanchoe
Sedum
Saxifraga
Heuchera
Ribes
Choristylis
Itea
Hamamelis
Corylopsis
Exbucklandia
Rhodoleia
Cercidiphyllum
Daphniphyllum
Liquidambar
Altingia
Peridiscus
Saxifragales
Buxus
Pachysandra
Didymeles
Buxales
Tetracentron
Trochodendron
Trochodendrales
Meliosma
Sabia
Sabiales
Roupala
Petrophile
Platanus
Nelumbo
Proteales
Glaucidium
Ranunculus
Hydrastis
Nandina
Decaisnea
Lardizabala
Sargentodoxa
Tinospora
Menispermum
Dicentra
Hypecoum
Eschscholzia
Euptelea
Ranunculales

Fig. S1-3:


Phelline
Corokia
Alseuosmia
Menyanthes
Helianthus
Roussea
Campanula
Asterales
Dipsacus
Lonicera
Viburnum
Dipsacales
Escallonia
Escalloniales
Berzelia
Bruniales
Pittosporum
Hedera
Apium
Griselinia
Pennantia
Apiales
Lamium
Byblis
Antirrhinum
Pinguicula
Verbena
Sesamum
Lamiales
Nicotiana
Ipomoea
Montinia
Solanales
Hydrophyllum
Borago
Boraginaceae
Gelsemium
Nerium
Gentianales
Vahlia
Vahliaceae
Helwingia
Ilex
Aquifoliales
Garrya
Eucommia
Garryales
Oncotheca
Icacinaceae
Icacina
Oncothecaceae
Cyrilla
Arbutus
Clethra
Ternstroemia
Galax
Manilkara
Diospyros
Androsace
Styrax
Camellia
Sarracenia
Actinidia
Idria
Tetramerista
Impatiens
Ericales
Nyssa
Cornus
Hydrangea
Cornales
Phytolacca
Mirabilis
Spinacia
Celosia
Limeum
Rhabdodendron
Limonium
Polygonum
Simmondsia
Ancistrocladus
Triphyophyllum
Drosophyllum
Drosera
Nepenthes
Caryophyllales
Santalum
Schoepfia
Ximenia
Heisteria
Santalales
Hirtella
Malpighia
Bruguiera
Clusia
Hypericum
Reinwardtia
Phyllanthus
Hydnocarpus
Ixonanthes
Passiflora
Humiria
Ochna
Euphorbia
Malpighiales
Connarus
Oxalis
Brunellia
Elaeocarpus
Hua
Oxalidales
Brexia
Euonymus
Parnassia
Ruptiliocarpon
Celastrales