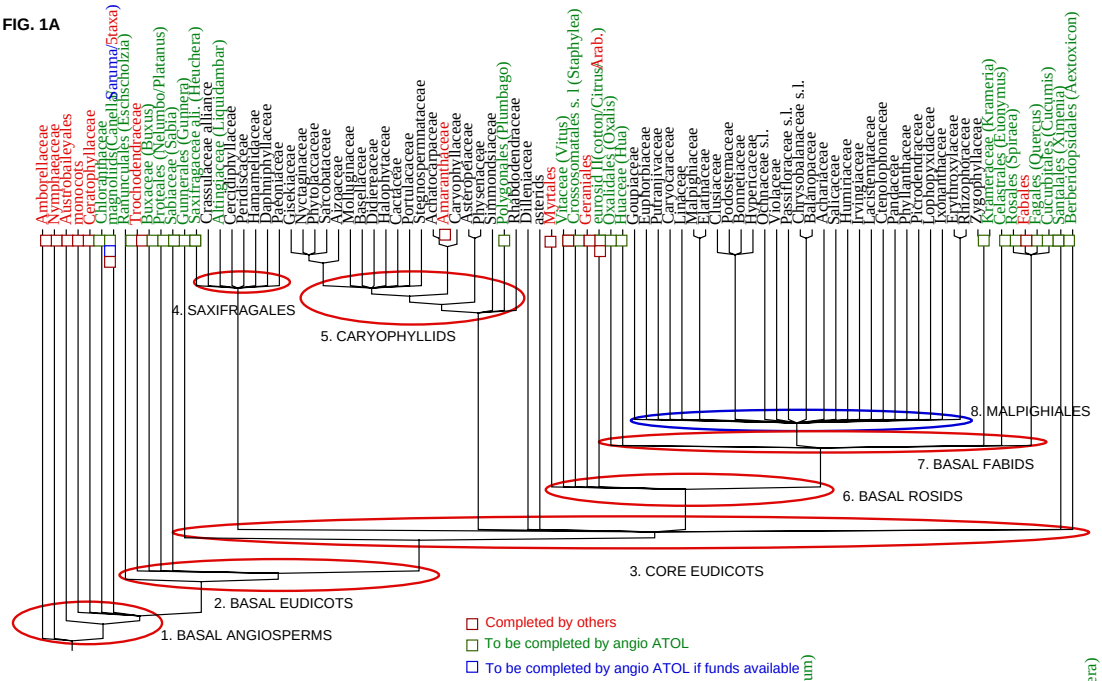
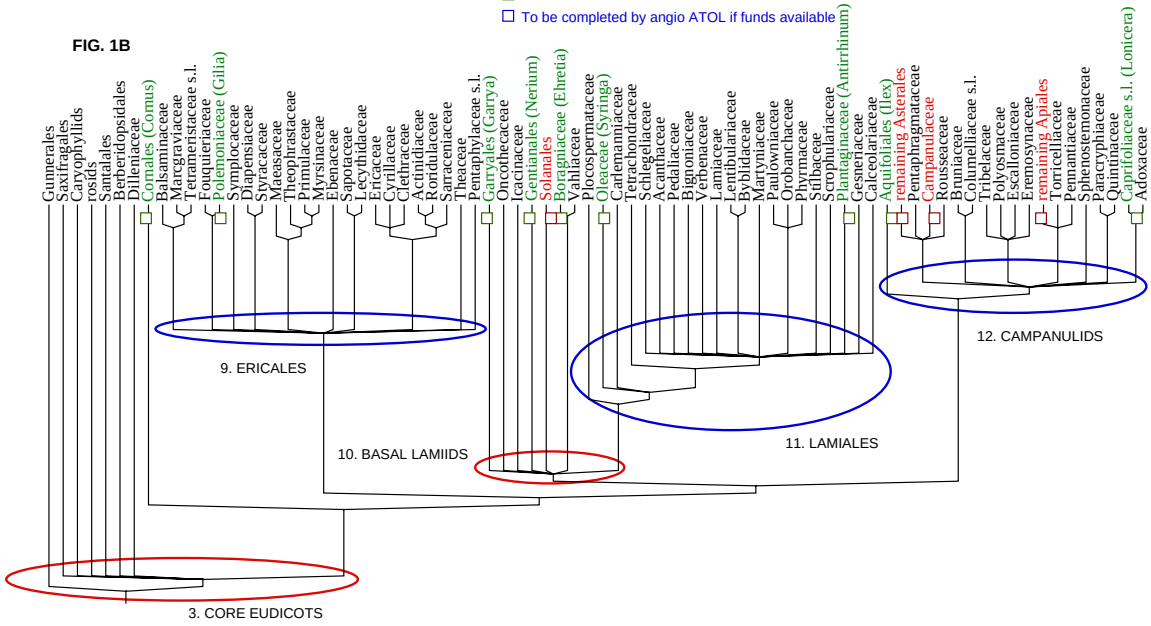
FIG. 1A



Amborellaceae
Nymphaeaceae
Austrobaileyales
monocots
Ceratophyllaceae
Chloranthaceae
magnolids(Canella/Saruma/Staxa)
Ranunculales (Eschscholzia)
Trochodendraceae
Buxaceae (Buxus)
Proteales (Nelumbo/Platanus)
Sabiaceae (Sabia)
Gunnerales (Gunnera)
Saxifragaceae all. (Heuchera)
Crassulaceae alliance
Aliaceae (Liquidambar)
Cercidiphyllaceae
Peridiscaceae
Hamamelidaceae
Daphniphyllaceae
Paeoniaceae
Gisekiaceae
Nyctaginaceae
Phytolaccaceae
Sarcobataceae
Aizoaceae
Molluginaceae
Basellaceae
Didiereaceae
Halophytaceae
Cactaceae
Portulacaceae
Stegnospermataceae
Achatocarpaceae
Amaranthaceae
Caryophyllaceae
Asteropeiaceae
Physenaceae
Simmondsiaceae
Polygonales (Plumbago)
Rhabdodendraceae
Dilleniaceae
asterids
Myrtales
Vitaceae (Vitus)
Crossosomatales s. l (Staphylea)
Geraniales
eurosid II(cotton/Citrus/Arab.)
Oxalidales (Oxalis)
Huaceae (Hua)
Goupiaceae
Euphorbiaceae
Putranjivaceae
Caryocaraceae
Linaceae
Malpighiaceae
Elatinaceae
Clusiaceae
Podostemaceae
Bonnetiaceae
Hypericaceae
Ochnaceae s.l.
Violaceae
Passifloraceae s.l.
Chrysobalanaceae s.l.
Balanopaceae
Achariaceae
Salicaceae
Humiriaceae
Irvingiaceae
Lacistemataceae
Ctenolophonaceae
Pandaceae
Phyllanthaceae
Picrodendraceae
Lophopyxidaceae
Ixonanthaceae
Erythroxylaceae
Rhizophoraceae
Zygophyllaceae
Krameriaceae (Krameria)
Celastrales (Euonymus)
Rosales (Spiraea)
Fabales
Fagales (Quercus)
Cucurbitales (Cucumis)
Santalales (Ximenia)
Berberidopsidales (Aextoxicon)
4. SAXIFRAGALES
5. CARYOPHYLLIDS
8. MALPIGHIALES
7. BASAL FABIDS
6. BASAL ROSIDS
3. CORE EUDICOTS
2. BASAL EUDICOTS
1. BASAL ANGIOSPERMS
Completed by others
To be completed by angio ATOL
To be completed by angio ATOL if funds available

FIG. 1B



Gunnerales
Saxifragales
Caryophyllids
rosids
Santalales
Berberidopsidales
Dilleniaceae
Cornales (Cornus)
Balsaminaceae
Marcgraviaceae
Tetrameristaceae s.l.
Fouquieriaceae
Polemoniaceae (Gilia)
Symplocaceae
Diapensiaceae
Styracaceae
Maeasaceae
Theophrastaceae
Primulaceae
Myrsinaceae
Ebenaceae
Sapotaceae
Lecythidaceae
Ericaceae
Cyrillaceae
Clethraceae
Actinidiaceae
Roridulaceae
Sarraceniaceae
Theaceae
Pentaphylaceae s.l.
Garryales (Garrya)
Oncothecaceae
Icacinaceae
Gentianales (Nerium)
Solanales
Boragniaceae (Ehretia)
Vahliaceae
Plocospermataceae
Oleaceae (Syringa)
Carlemanniaceae
Tetrachondraceae
Schlegeliaceae
Acanthaceae
Pedaliaceae
Bignoniaceae
Verbenaceae
Lamiaceae
Lentibulariaceae
Byblidaceae
Martyniaceae
Paulowniaceae
Orobanchaceae
Phyrmaceae
Stilbaceae
Scrophulariaceae
Plantaginaceae (Antirrhinum)
Gesneriaceae
Calceolariaceae
Aquifoliales (Ilex)
remaining Asterales
Pentaphragmataceae
Campanulaceae
Rousseaceae
Bruniaceae
Columelliaceae s.l.
Tribelaceae
Polyosmaceae
Escalloniaceae
Eremosynaceae
remaining Apiales
Torricelliaceae
Pennantiaceae
Sphenostemonaceae
Paracryphiaceae
Quintinaceae
Caprifoliaceae s.l. (Lonicera)
Adoxaceae
9. ERICALES
12. CAMPANULIDS
11. LAMIALES
10. BASAL LAMIIDS
3. CORE EUDICOTS