



# New linear systematic sequence for vascular plants

The [Western Australian Herbarium](#) is updating its sequence and arrangement of collections as part of the move to a new Biodiversity Science Centre. The new systematic sequence is based on the work of the [Angiosperm Phylogeny Group \(APGIII\)](#), a large-scale collaborative ordinal classification of angiosperms based on recent molecular phylogenetic research.

For the ferns, fern allies, and gymnosperms (obviously not covered in the work of the APG) we have utilised David Mabberley's arrangement as published in the most recent edition of his Plant-Book. (Interestingly, the previous arrangement of families at the WA Herbarium was based on the Engler and Prantl sequence as published J.C. Willis' *A Dictionary of the Flowering Plants and Ferns* in 1919; Mabberley's *Plant-Book* is a direct descendent of Willis' work.) Mabberley in turn uses Smith *et al.* (2006) as his reference for fern phylogeny.

A small number of modifications to the globally accepted list of plant families were made for national use by the Australian Plant Census (APC) team, which base their work on Mabberley's angiosperm sequence, which is intermediate between APGII (2003) and APGIII (2009). These respective sources are indicated for each family in [Table 1](#) below.

Many herbaria around the world are adopting the version 3 of the APG's phylogenetic arrangement of families as a means for reordering not only their Census but the physical collection. The work of Haston *et al.* (2009) in developing a linear sequence, based on the results of APGIII phylogeny, is significant because it is expected that, at these higher levels of the classification, the sequence will be relatively stable into the future.

**NB.** The linear sequence number is simply a mechanism for putting plant families into a systematic order for use in grouping and reporting. **It is a number that will change** as needed for the purposes of managing the WA Herbarium's information and collection - it is not a replacement for the WA Herbarium's old 'Family Number', which is now entirely deprecated. It is assigned as a real number in order to interleave new families if required without entirely changing the sequence order or its ability to sort numerically (a widely recognised problem with the previous alphanumeric formulation of Family Number).

Our plan is to adopt a 'punctuated equilibrium model' whereby we will base our sequence on widely available collaborative syntheses such as those listed below. We do not intend to change the family sequence based on the very latest research as it appears, but rather wait for the next major synthesis to be published. In this way we can provide step-wise improvement in systematic knowledge while providing a stable documented reference.

## Reference Sources

Angiosperm Phylogeny Group (2009). [An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG III](#). *Botanical Journal of the Linnean Society*, 161, 105 – 121.

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Mabberley, D.J. (2008). *Mabberley's Plant-Book. A portable dictionary of plants, their classifications and uses*. Third edition, xviii, 1021 pp. Cambridge University Press, ISBN: 9780521820714.

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Table 1. Systematic sequence of vascular plant families occurring in Western Australia

| Sequence | WA Family                        | Order          | Group            | Source    |
|----------|----------------------------------|----------------|------------------|-----------|
| 1.00     | <a href="#">Lycopodiaceae</a>    | Lycopodiales   | fern ally        | Mabberley |
| 2.00     | <a href="#">Isoetaceae</a>       | Isoetales      | fern ally        | Mabberley |
| 3.00     | <a href="#">Selaginellaceae</a>  | Selaginellales | fern ally        | Mabberley |
| 4.00     | <a href="#">Psilotaceae</a>      | Psilotales     | fern             | Mabberley |
| 5.00     | <a href="#">Ophioglossaceae</a>  | Ophioglossales | fern             | Mabberley |
| 10.00    | <a href="#">Gleicheniaceae</a>   | Gleicheniales  | fern             | Mabberley |
| 13.00    | <a href="#">Lygodiaceae</a>      | Schizaeales    | fern             | Mabberley |
| 15.00    | <a href="#">Schizaeaceae</a>     | Schizaeales    | fern             | Mabberley |
| 16.00    | <a href="#">Marsileaceae</a>     | Salviniales    | fern             | Mabberley |
| 17.00    | <a href="#">Salviniaceae</a>     | Salviniales    | fern             | Mabberley |
| 23.00    | <a href="#">Cyatheaceae</a>      | Cyatheales     | fern             | Mabberley |
| 26.00    | <a href="#">Lindsaeaceae</a>     | Polypodiales   | fern             | Mabberley |
| 28.00    | <a href="#">Dennstaedtiaceae</a> | Polypodiales   | fern             | Mabberley |
| 29.00    | <a href="#">Pteridaceae</a>      | Polypodiales   | fern             | Mabberley |
| 30.00    | <a href="#">Aspleniaceae</a>     | Polypodiales   | fern             | Mabberley |
| 32.00    | <a href="#">Thelypteridaceae</a> | Polypodiales   | fern             | Mabberley |
| 33.00    | <a href="#">Blechnaceae</a>      | Polypodiales   | fern             | Mabberley |
| 35.00    | <a href="#">Dryopteridaceae</a>  | Polypodiales   | fern             | Mabberley |
| 36.00    | <a href="#">Lomariopsidaceae</a> | Polypodiales   | fern             | Mabberley |
| 40.00    | <a href="#">Polypodiaceae</a>    | Polypodiales   | fern             | Mabberley |
| 41.00    | <a href="#">Cycadaceae</a>       | Cycadales      | gymnosperm       | Mabberley |
| 42.00    | <a href="#">Zamiaceae</a>        | Cycadales      | gymnosperm       | Mabberley |
| 44.00    | <a href="#">Pinaceae</a>         | Pinales        | gymnosperm       | Mabberley |
| 49.00    | <a href="#">Podocarpaceae</a>    | Pinales        | gymnosperm       | Mabberley |
| 52.00    | <a href="#">Cupressaceae</a>     | Pinales        | gymnosperm       | Mabberley |
| 54.00    | <a href="#">Hydatellaceae</a>    | Nymphaeales    | basal angiosperm | APGIII    |
| 56.00    | <a href="#">Nymphaeaceae</a>     | Nymphaeales    | basal angiosperm | APGIII    |
| 64.00    | <a href="#">Piperaceae</a>       | Piperales      | magnoliid        | APGIII    |
| 67.00    | <a href="#">Aristolochiaceae</a> | Piperales      | magnoliid        | APGIII    |
| 68.00    | <a href="#">Myristicaceae</a>    | Magnoliales    | magnoliid        | APGIII    |
| 73.00    | <a href="#">Annonaceae</a>       | Magnoliales    | magnoliid        | APGIII    |
| 78.00    | <a href="#">Hernandiaceae</a>    | Laurales       | magnoliid        | APGIII    |

|        |                                   |               |             |        |
|--------|-----------------------------------|---------------|-------------|--------|
| 80.00  | <a href="#">Lauraceae</a>         | Laurales      | magnoliid   | APGIII |
| 82.00  | <a href="#">Araceae</a>           | Alismatales   | monocots    | APGIII |
| 84.00  | <a href="#">Alismataceae</a>      | Alismatales   | monocots    | APGIII |
| 86.00  | <a href="#">Hydrocharitaceae</a>  | Alismatales   | monocots    | APGIII |
| 88.00  | <a href="#">Aponogetonaceae</a>   | Alismatales   | monocots    | APGIII |
| 89.00  | <a href="#">Juncaginaceae</a>     | Alismatales   | monocots    | APGIII |
| 90.00  | <a href="#">Zosteraceae</a>       | Alismatales   | monocots    | APGIII |
| 91.00  | <a href="#">Potamogetonaceae</a>  | Alismatales   | monocots    | APGIII |
| 92.00  | <a href="#">Posidoniaceae</a>     | Alismatales   | monocots    | APGIII |
| 93.00  | <a href="#">Ruppiaceae</a>        | Alismatales   | monocots    | APGIII |
| 94.00  | <a href="#">Cymodoceaceae</a>     | Alismatales   | monocots    | APGIII |
| 97.00  | <a href="#">Burmanniaceae</a>     | Dioscoreales  | monocots    | APGIII |
| 98.00  | <a href="#">Taccaceae</a>         | Dioscoreales  | monocots    | APC    |
| 99.00  | <a href="#">Dioscoreaceae</a>     | Dioscoreales  | monocots    | APGIII |
| 102.00 | <a href="#">Stemonaceae</a>       | Pandanales    | monocots    | APGIII |
| 104.00 | <a href="#">Pandanaceae</a>       | Pandanales    | monocots    | APGIII |
| 108.00 | <a href="#">Alstroemeriaceae</a>  | Liliales      | monocots    | APGIII |
| 109.00 | <a href="#">Colchicaceae</a>      | Liliales      | monocots    | APGIII |
| 112.00 | <a href="#">Smilacaceae</a>       | Liliales      | monocots    | APGIII |
| 115.00 | <a href="#">Orchidaceae</a>       | Asparagales   | monocots    | APGIII |
| 116.00 | <a href="#">Boryaceae</a>         | Asparagales   | monocots    | APGIII |
| 120.00 | <a href="#">Hypoxidaceae</a>      | Asparagales   | monocots    | APGIII |
| 121.00 | <a href="#">Tecophilaeaceae</a>   | Asparagales   | monocots    | APGIII |
| 124.00 | <a href="#">Iridaceae</a>         | Asparagales   | monocots    | APGIII |
| 126.00 | <a href="#">Xanthorrhoeaceae</a>  | Asparagales   | monocots    | APGIII |
| 127.00 | <a href="#">Amaryllidaceae</a>    | Asparagales   | monocots    | APC    |
| 128.00 | <a href="#">Asparagaceae</a>      | Asparagales   | monocots    | APGIII |
| 129.00 | <a href="#">Asphodelaceae</a>     | Asparagales   | monocots    | APC    |
| 130.00 | <a href="#">Hemerocallidaceae</a> | Asparagales   | monocots    | APC    |
| 131.00 | <a href="#">Alliaceae</a>         | Asparagales   | monocots    | APC    |
| 132.00 | <a href="#">Agapanthaceae</a>     | Asparagales   | monocots    | APC    |
| 133.00 | <a href="#">Arecaceae</a>         | Arecales      | commelinids | APGIII |
| 135.00 | <a href="#">Commelinaceae</a>     | Commelinales  | commelinids | APGIII |
| 136.00 | <a href="#">Philydraceae</a>      | Commelinales  | commelinids | APGIII |
| 137.00 | <a href="#">Pontederiaceae</a>    | Commelinales  | commelinids | APGIII |
| 138.00 | <a href="#">Haemodoraceae</a>     | Commelinales  | commelinids | APGIII |
| 142.00 | <a href="#">Musaceae</a>          | Zingiberales  | commelinids | APGIII |
| 143.00 | <a href="#">Cannaceae</a>         | Zingiberales  | commelinids | APGIII |
| 147.00 | <a href="#">Dasypogonaceae</a>    | Dasypogonales | commelinids | APGIII |
| 148.00 | <a href="#">Typhaceae</a>         | Poales        | commelinids | APGIII |
| 151.00 | <a href="#">Xyridaceae</a>        | Poales        | commelinids | APGIII |
| 152.00 | <a href="#">Eriocaulaceae</a>     | Poales        | commelinids | APGIII |
| 155.00 | <a href="#">Juncaceae</a>         | Poales        | commelinids | APGIII |
| 156.00 | <a href="#">Cyperaceae</a>        | Poales        | commelinids | APGIII |
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| 158.00 | <a href="#">Centrolepidaceae</a>  | Poales        | commelinids | APGIII |

|        |                                  |                 |              |        |
|--------|----------------------------------|-----------------|--------------|--------|
| 159.00 | <a href="#">Restionaceae</a>     | Poales          | commelinids  | APGIII |
| 160.00 | <a href="#">Flagellariaceae</a>  | Poales          | commelinids  | APGIII |
| 162.00 | <a href="#">Ecdeiocoleaceae</a>  | Poales          | commelinids  | APGIII |
| 163.00 | <a href="#">Poaceae</a>          | Poales          | commelinids  | APGIII |
| 164.00 | <a href="#">Ceratophyllaceae</a> | Ceratophyllales | eudicot      | APGIII |
| 166.00 | <a href="#">Papaveraceae</a>     | Ranunculales    | eudicot      | APGIII |
| 169.00 | <a href="#">Menispermaceae</a>   | Ranunculales    | eudicot      | APGIII |
| 171.00 | <a href="#">Ranunculaceae</a>    | Ranunculales    | eudicot      | APGIII |
| 174.00 | <a href="#">Platanaceae</a>      | Proteales       | eudicot      | APGIII |
| 175.00 | <a href="#">Proteaceae</a>       | Proteales       | eudicot      | APGIII |
| 181.00 | <a href="#">Dilleniaceae</a>     | Dilleniales     | core eudicot | APGIII |
| 192.00 | <a href="#">Crassulaceae</a>     | Saxifragales    | core eudicot | APGIII |
| 193.00 | <a href="#">Aphanopetalaceae</a> | Saxifragales    | core eudicot | APGIII |
| 196.00 | <a href="#">Haloragaceae</a>     | Saxifragales    | core eudicot | APGIII |
| 197.00 | <a href="#">Vitaceae</a>         | Vitales         | rosid        | APGIII |
| 199.00 | <a href="#">Zygophyllaceae</a>   | Zygophyllales   | eurosids I   | APGIII |
| 201.00 | <a href="#">Fabaceae</a>         | Fabales         | eurosids I   | APGIII |
| 202.00 | <a href="#">Suriaceae</a>        | Fabales         | eurosids I   | APGIII |
| 203.00 | <a href="#">Polygalaceae</a>     | Fabales         | eurosids I   | APGIII |
| 204.00 | <a href="#">Rosaceae</a>         | Rosales         | eurosids I   | APGIII |
| 208.00 | <a href="#">Rhamnaceae</a>       | Rosales         | eurosids I   | APGIII |
| 210.00 | <a href="#">Cannabaceae</a>      | Rosales         | eurosids I   | APGIII |
| 211.00 | <a href="#">Moraceae</a>         | Rosales         | eurosids I   | APGIII |
| 212.00 | <a href="#">Urticaceae</a>       | Rosales         | eurosids I   | APGIII |
| 217.00 | <a href="#">Casuarinaceae</a>    | Fagales         | eurosids I   | APGIII |
| 220.00 | <a href="#">Apodanthaceae</a>    | Cucurbitales    | eurosids I   | APGIII |
| 224.00 | <a href="#">Cucurbitaceae</a>    | Cucurbitales    | eurosids I   | APGIII |
| 229.00 | <a href="#">Celastraceae</a>     | Celastrales     | eurosids I   | APGIII |
| 232.00 | <a href="#">Oxalidaceae</a>      | Oxalidales      | eurosids I   | APGIII |
| 234.00 | <a href="#">Elaeocarpaceae</a>   | Oxalidales      | eurosids I   | APGIII |
| 235.00 | <a href="#">Cephalotaceae</a>    | Oxalidales      | eurosids I   | APGIII |
| 238.00 | <a href="#">Rhizophoraceae</a>   | Malpighiales    | eurosids I   | APGIII |
| 239.00 | <a href="#">Erythroxylaceae</a>  | Malpighiales    | eurosids I   | APGIII |
| 242.00 | <a href="#">Euphorbiaceae</a>    | Malpighiales    | eurosids I   | APGIII |
| 246.00 | <a href="#">Picridaceae</a>      | Malpighiales    | eurosids I   | APGIII |
| 247.00 | <a href="#">Phyllanthaceae</a>   | Malpighiales    | eurosids I   | APGIII |
| 248.00 | <a href="#">Elatinaceae</a>      | Malpighiales    | eurosids I   | APGIII |
| 254.00 | <a href="#">Chrysobalanaceae</a> | Malpighiales    | eurosids I   | APGIII |
| 256.00 | <a href="#">Putranjivaceae</a>   | Malpighiales    | eurosids I   | APGIII |
| 257.00 | <a href="#">Passifloraceae</a>   | Malpighiales    | eurosids I   | APGIII |
| 258.00 | <a href="#">Turneraceae</a>      | Malpighiales    | eurosids I   | APC    |
| 260.00 | <a href="#">Salicaceae</a>       | Malpighiales    | eurosids I   | APGIII |
| 261.00 | <a href="#">Violaceae</a>        | Malpighiales    | eurosids I   | APGIII |
| 267.00 | <a href="#">Linaceae</a>         | Malpighiales    | eurosids I   | APGIII |
| 270.00 | <a href="#">Clusiaceae</a>       | Malpighiales    | eurosids I   | APGIII |
| 272.00 | <a href="#">Podostemaceae</a>    | Malpighiales    | eurosids I   | APGIII |

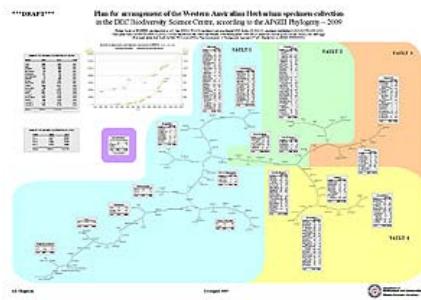
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| 273.00 | <a href="#">Hypericaceae</a>    | Malpighiales   | eurosids I   | APGIII |
| 274.00 | <a href="#">Geraniaceae</a>     | Geraniales     | rosid        | APGIII |
| 276.00 | <a href="#">Melianthaceae</a>   | Geraniales     | rosid        | APGIII |
| 277.00 | <a href="#">Combretaceae</a>    | Mytales        | rosid        | APGIII |
| 278.00 | <a href="#">Lythraceae</a>      | Mytales        | rosid        | APGIII |
| 279.00 | <a href="#">Onagraceae</a>      | Mytales        | rosid        | APGIII |
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| 295.00 | <a href="#">Nitrariaceae</a>    | Sapindales     | eurosids II  | APGIII |
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| 298.00 | <a href="#">Anacardiaceae</a>   | Sapindales     | eurosids II  | APGIII |
| 299.00 | <a href="#">Sapindaceae</a>     | Sapindales     | eurosids II  | APGIII |
| 300.00 | <a href="#">Rutaceae</a>        | Sapindales     | eurosids II  | APGIII |
| 301.00 | <a href="#">Simaroubaceae</a>   | Sapindales     | eurosids II  | APGIII |
| 302.00 | <a href="#">Meliaceae</a>       | Sapindales     | eurosids II  | APGIII |
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| 312.00 | <a href="#">Bixaceae</a>        | Malvales       | eurosids II  | APGIII |
| 317.00 | <a href="#">Tropaeolaceae</a>   | Brassicales    | eurosids II  | APGIII |
| 318.00 | <a href="#">Moringaceae</a>     | Brassicales    | eurosids II  | APGIII |
| 323.00 | <a href="#">Bataceae</a>        | Brassicales    | eurosids II  | APGIII |
| 325.00 | <a href="#">Emblingiaceae</a>   | Brassicales    | eurosids II  | APGIII |
| 328.00 | <a href="#">Gyrostemonaceae</a> | Brassicales    | eurosids II  | APGIII |
| 329.00 | <a href="#">Resedaceae</a>      | Brassicales    | eurosids II  | APGIII |
| 330.00 | <a href="#">Capparaceae</a>     | Brassicales    | eurosids II  | APGIII |
| 331.00 | <a href="#">Cleomaceae</a>      | Brassicales    | eurosids II  | APGIII |
| 332.00 | <a href="#">Brassicaceae</a>    | Brassicales    | eurosids II  | APGIII |
| 336.00 | <a href="#">Olacaceae</a>       | Santalales     | core eudicot | APGIII |
| 337.00 | <a href="#">Opiliaceae</a>      | Santalales     | core eudicot | APGIII |
| 338.00 | <a href="#">Santalaceae</a>     | Santalales     | core eudicot | APGIII |
| 339.00 | <a href="#">Loranthaceae</a>    | Santalales     | core eudicot | APGIII |
| 342.00 | <a href="#">Frankeniacae</a>    | Caryophyllales | core eudicot | APGIII |
| 343.00 | <a href="#">Tamaricaceae</a>    | Caryophyllales | core eudicot | APGIII |
| 344.00 | <a href="#">Plumbaginaceae</a>  | Caryophyllales | core eudicot | APGIII |
| 345.00 | <a href="#">Polygonaceae</a>    | Caryophyllales | core eudicot | APGIII |
| 346.00 | <a href="#">Droseraceae</a>     | Caryophyllales | core eudicot | APGIII |
| 355.00 | <a href="#">Caryophyllaceae</a> | Caryophyllales | core eudicot | APGIII |
| 357.00 | <a href="#">Amaranthaceae</a>   | Caryophyllales | core eudicot | APGIII |
| 358.00 | <a href="#">Chenopodiaceae</a>  | Caryophyllales | core eudicot | APC    |
| 364.00 | <a href="#">Aizoaceae</a>       | Caryophyllales | core eudicot | APGIII |
| 365.00 | <a href="#">Phytolaccaceae</a>  | Caryophyllales | core eudicot | APGIII |
| 367.00 | <a href="#">Nyctaginaceae</a>   | Caryophyllales | core eudicot | APGIII |
| 368.00 | <a href="#">Molluginaceae</a>   | Caryophyllales | core eudicot | APGIII |
| 371.00 | <a href="#">Basellaceae</a>     | Caryophyllales | core eudicot | APGIII |
| 374.00 | <a href="#">Portulacaceae</a>   | Caryophyllales | core eudicot | APGIII |
| 375.00 | <a href="#">Cactaceae</a>       | Caryophyllales | core eudicot | APGIII |

|        |                                  |               |               |        |
|--------|----------------------------------|---------------|---------------|--------|
| 382.00 | <a href="#">Balsaminaceae</a>    | Ericales      | asterids      | APGIII |
| 386.00 | <a href="#">Polemoniaceae</a>    | Ericales      | asterids      | APGIII |
| 387.00 | <a href="#">Lecythidaceae</a>    | Ericales      | asterids      | APGIII |
| 390.00 | <a href="#">Sapotaceae</a>       | Ericales      | asterids      | APGIII |
| 391.00 | <a href="#">Ebenaceae</a>        | Ericales      | asterids      | APGIII |
| 392.00 | <a href="#">Primulaceae</a>      | Ericales      | asterids      | APGIII |
| 403.00 | <a href="#">Ericaceae</a>        | Ericales      | asterids      | APGIII |
| 409.00 | <a href="#">Rubiaceae</a>        | Gentianales   | euasterids I  | APGIII |
| 410.00 | <a href="#">Gentianaceae</a>     | Gentianales   | euasterids I  | APGIII |
| 411.00 | <a href="#">Loganiaceae</a>      | Gentianales   | euasterids I  | APGIII |
| 413.00 | <a href="#">Apocynaceae</a>      | Gentianales   | euasterids I  | APGIII |
| 415.00 | <a href="#">Boraginaceae</a>     | Euasterids I  | euasterids I  | APGIII |
| 416.00 | <a href="#">Convolvulaceae</a>   | Solanales     | euasterids I  | APGIII |
| 417.00 | <a href="#">Solanaceae</a>       | Solanales     | euasterids I  | APGIII |
| 419.00 | <a href="#">Sphenocleaceae</a>   | Solanales     | euasterids I  | APGIII |
| 420.00 | <a href="#">Hydroleaceae</a>     | Solanales     | euasterids I  | APGIII |
| 423.00 | <a href="#">Oleaceae</a>         | Lamiales      | euasterids I  | APGIII |
| 427.00 | <a href="#">Plantaginaceae</a>   | Lamiales      | euasterids I  | APGIII |
| 428.00 | <a href="#">Scrophulariaceae</a> | Lamiales      | euasterids I  | APGIII |
| 430.00 | <a href="#">Linderniaceae</a>    | Lamiales      | euasterids I  | APGIII |
| 431.00 | <a href="#">Pedaliaceae</a>      | Lamiales      | euasterids I  | APGIII |
| 432.00 | <a href="#">Lamiaceae</a>        | Lamiales      | euasterids I  | APGIII |
| 433.00 | <a href="#">Phrymaceae</a>       | Lamiales      | euasterids I  | APGIII |
| 435.00 | <a href="#">Orobanchaceae</a>    | Lamiales      | euasterids I  | APGIII |
| 436.00 | <a href="#">Lentibulariaceae</a> | Lamiales      | euasterids I  | APGIII |
| 437.00 | <a href="#">Acanthaceae</a>      | Lamiales      | euasterids I  | APGIII |
| 438.00 | <a href="#">Bignoniaceae</a>     | Lamiales      | euasterids I  | APGIII |
| 441.00 | <a href="#">Verbenaceae</a>      | Lamiales      | euasterids I  | APGIII |
| 442.00 | <a href="#">Byblidaceae</a>      | Lamiales      | euasterids I  | APGIII |
| 443.00 | <a href="#">Martyniaceae</a>     | Lamiales      | euasterids I  | APGIII |
| 448.00 | <a href="#">Aquifoliaceae</a>    | Aquifoliales  | euasterids II | APGIII |
| 450.00 | <a href="#">Campanulaceae</a>    | Asterales     | euasterids II | APGIII |
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Written by [Alex Chapman](#), [Cheryl Parker](#) and [Louise Biggs](#); 16 April 2010.



Department of  
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