

**AUTOMATICALLY TYPIFIED SUPERORDINAL AND ORDINAL NAMES FOR  
THE FLOWERING PLANTS (MAGNOLIOPHYTA) AS RECOGNIZED BY  
THORNE (1992) AND ARRANGED FOLLOWING THE PRINCIPLES OF  
PRIORITY, AUTONYMY, AND THE SUBSTITUTION OF ALTERNATIVE  
NAMES**

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**ABSTRACT**

Using the most recent system of classification for flowering plants (Magnoliophyta) proposed by Thorne (1992), superordinal and ordinal names and their synonyms are arranged according to the principles of priority, autonymy, and the substitution of alternative names.

**KEY WORDS:** Magnoliophyta, nomenclature, classification, ordinal names

**INTRODUCTION**

Names above the rank of family are not subject to the rules of priority (Art. 11.4; Greuter *et al.* 1988). Nonetheless, Thorne (1992) has attempted to apply priority to ordinal names starting with Lindley (1833) even though he was aware that the majority of the names proposed by Lindley had been validly published by Dumortier (1829) four years earlier. The list of names presented below follows Thorne's classification scheme, but adopts a modified principle of priority and the notion of autonymy. The concept of substituting alternative names at the family level (Art. 18.5) is applied to superordinal and ordinal names. Also, I have retained technically illegitimate ordinal and superordinal names if the formerly illegitimate family name upon which they were based has been conserved (see App. IIB).

Thorne (1992) adopted the concept of autonyms for ordinal names even though this is not mandated by the present *Code* for names above the rank

of family. Thus, he took up Magnoliales (1838) rather than the earlier Laurales (1826) within Magnolianae. I have maintained this principle. Finally, an ordinal name is adopted only if the family name itself is accepted either because a particular family name is conserved (e.g., Saxifragales [1829] over Sedales [1828]) or because of a taxonomic decision (e.g., Asparagales [1838] over Asteliales [1829]). A series of footnotes is appended to the end of the catalogue justifying why a particular name was adopted, or noting names accepted here which are different from those given by Thorne.

The purpose of this exercise is to ascertain the nomenclatural affect of priority on names at the rank of order. If the concept of "names in current use" (Greuter 1991; Hawksworth 1991) is added to the *Code* at the forthcoming International Botanical Congress, then perhaps, in time, this concept can be expanded to include names above the rank of family. Having concentrated recently on vascular plant nomenclature at the family rank and above, I can attest to the difficulty of finding the earliest places of valid publication for these names. Rules in the *Code* are vague for names above the rank of family and will require some revision.

Thorne's (1992) treatment is particularly useful for this nomenclatural experiment in that he recognized fewer superorders and orders than his contemporaries, thereby making the impact of priority more significant on a case-by-case basis. By adopting the principle of priority, but considering it secondary to the principle of autonomy, and then accepting the principle that ordinal names based on alternative family names have equivalent priority as their alternative ordinal names, there is only minimal nomenclatural disruption. The most unfortunate name changes encountered using Thorne's (1992) recent system of classification is that Dioscoreales (1876) must be replaced by Taccales (1829). Problems such as these can be addressed by conservation and/or the establishment of a names in current use list for ordinal names. In short, priority has little significant nomenclature impact upon the established nomenclature of ordinal names.

A catalogue of ordinal names with their full citation is now in its final stages of preparation and review. It is requested that additional names and/or corrections to the dates of publication given here be forwarded to me.

## CATALOGUE OF SUPERORDINAL AND ORDINAL NAMES

### I. Magnolianae Takhtajan, 1967

- Nelumbonanae* Takhtajan *ex Reveal*, 1992  
*Ranunculanae* Takhtajan *ex Reveal*, 1992

### 1. Magnoliales Bromhead, 1838<sup>1</sup>

- Laurales* Perleb, 1826  
*Aristolochiales* Dumortier, 1829  
*Gyrocarpales* Dumortier, 1829  
*Monimiales* Dumortier, 1829

- Piperales* Dumortier, 1829  
*Annonales* Lindley, 1833  
*Calycanthales* C. Martius, 1835  
*Asarales* Burnett, 1835  
*Canellales* Cronquist, 1957  
*Illiciales* H.H. Hu *ex* Cronquist, 1981  
*Austrobaileyales* Takhtajan *ex* Reveal, 1992  
*Chloranthales* Conzatti & L.C. Smith *ex* Reveal, 1992  
*Eupomatiaceae* Takhtajan *ex* Reveal, 1992  
*Lactoridales* Takhtajan *ex* Reveal, 1993  
*Winterales* A.C. Smith *ex* Reveal, 1993
2. **Ceratophyllales** Bischoff, 1840
3. **Nelumbonales** Burnett, 1835
4. **Paeoniales** Heintze, 1927  
*Glaucidiales* Takhtajan *ex* Reveal, 1992
5. **Berberidales** Dumortier, 1829  
*Podophyllales* Dumortier, 1829  
*Ranunculales* Dumortier, 1829  
*Papaverales* Dumortier, 1829  
*Menispermiales* Bromhead, 1838  
*Helleborales* Nakai, 1949
- II. **Nymphaeanae** Thorne *ex* Reveal, 1992
6. **Nymphaeales** Dumortier, 1829  
*Euryalales* H.-L. Li, 1955
- III. **Rafflesiana** Thorne *ex* Reveal, 1992
7. **Rafflesiales** Oliver, 1895<sup>2</sup>  
*Cytinales* Dumortier, 1829  
*Mitragynales* Makino, 1911  
*Hydnorales* Takhtajan *ex* Reveal, 1992
- IV. **Caryophyllanae** Takhtajan, 1967
8. **Caryophyllales** Perleb, 1826
- Amaranthales* Dumortier, 1829  
*Cactales* Dumortier, 1829  
*Chenopodiales* Dumortier, 1829  
*Nyctaginales* Dumortier, 1829  
*Portulacales* Dumortier, 1829  
*Scleranthales* Dumortier, 1829  
*Petiveriales* Lindley, 1833  
*Silenes* Lindley, 1833  
*Dianthales* Burnett, 1835  
*Atriplicales* Horaninow, 1847  
*Opuntiales* Willkomm, 1854
- V. **Theanae** Thorne *ex* Reveal, 1992
- Lecythidanae* Takhtajan *ex* Reveal, 1992  
*Nepenthanae* Takhtajan *ex* Reveal, 1992  
*Plumbaginanae* Takhtajan *ex* Reveal, 1992  
*Polygonanae* Takhtajan *ex* Reveal, 1992  
*Primulanae* R. Dahlgren *ex* Reveal, 1992  
*Sarraceniana* Thorne *ex* Reveal, 1992  
*Dilleniana* Takhtajan *ex* Reveal & Takhtajan, 1993
9. **Theales** Lindley, 1833<sup>3</sup>
- Hypericales* Dumortier, 1829  
*Nepenthales* Dumortier, 1829  
*Camelliaceae* Burnett, 1835  
*Iliciales* Burnett, 1835  
*Sarraceniales* Bromhead, 1838  
*Aquifoliaceae* Senft, 1856  
*Elatinales* Nakai, 1949  
*Dilleniales* Hutchinson, 1924  
*Medusagyna* Brenan, 1952  
*Lecythidales* Cronquist, 1957  
*Ancistrocladales* Takhtajan *ex* Reveal, 1992  
*Actinidiaceae* Takhtajan *ex* Reveal, 1993  
*Dioncophyllales* Takhtajan *ex* Reveal, 1992

- Ochnales* Hutchinson *ex* Reveal, 1993
- Paracryphiales* Takhtajan *ex* Reveal, 1992
10. **Ericales** Dumortier, 1829  
*Vacciniales* Dumortier, 1829  
*Rhodorales* Horaninow, 1847  
*Empetrales* Nakai, 1930
11. **Fouquieriales** Takhtajan *ex* Reveal, 1992
12. **Styracales** Burnett, 1835  
*Sapotales* J.D. Hooker *in* W.H. Harvey, 1868  
*Diospyrales* Prantl, 1874  
*Ebenales* Engler, 1892
13. **Primulales** Dumortier, 1829  
*Samolales* Dumortier, 1829  
*Plumbaginales* Lindley, 1833  
*Myrsinales* Bromhead, 1838
14. **Polygonales** Dumortier, 1829  
*Rutinales* Burnett, 1835
- VI. **Celastranae** Takhtajan, 1967  
 15. **Celastrales** Baskerville, 1839
- VII. **Malvanae** Takhtajan, 1967  
*Euphorbianae* Takhtajan *ex* Reveal, 1992  
*Rhamnanae* Takhtajan *ex* Reveal, 1992  
*Urticanae* Takhtajan *ex* Reveal, 1992
16. **Malvales** Dumortier, 1829  
*Tiliaceae* Hutchinson, 1924
17. **Urticales** Dumortier, 1829  
*Ficales* Dumortier, 1829  
*Ulmaceae* Lindley, 1833
18. **Barbeyales** Takhtajan *ex* Reveal & Takhtajan, 1993
19. **Rhamnales** Dumortier, 1829  
*Elaeagnales* Bromhead, 1838
20. **Euphorbiales** Lindley, 1833  
*Daphnales* Lindley, 1833  
*Crotonales* Horaninow, 1847  
*Thymelaeales* Willkomm, 1854
- Pandales* Engler & Gilg, 1912-1913
- Simmondsiales* Reveal, 1992
- VIII. **Violanae** R. Dahlgren *ex* Reveal, 1992
21. **Violales** Perleb, 1826  
*Cistales* Reichenbach, 1828  
*Begoniales* Dumortier, 1829  
*Cucurbitales* Dumortier, 1829  
*Datiscales* Dumortier, 1829  
*Passiflorales* Dumortier, 1829  
*Samydales* Dumortier, 1829  
*Turnerales* Dumortier, 1829  
*Bixales* Lindley, 1833  
*Salicales* Lindley, 1833  
*Homaliales* Bromhead, 1838  
*Lacistematales* Baskerville, 1839  
*Tamaricales* Hutchinson, 1924  
*Flacourtiaceae* Heintze, 1927  
*Caricales* L. Benson, 1957
22. **Brassicales** Bromhead, 1838<sup>4</sup>  
*Resedales* Dumortier, 1829  
*Capparales* Hutchinson, 1924  
*Tovariales* Nakai, 1943  
*Salvadorales* R. Dahlgren *ex* Reveal, 1993
23. **Batales** Engler, 1907
- IX. **Santalanae** Thorne *ex* Reveal, 1992  
*Balanophoranae* R. Dahlgren *ex* Reveal, 1992
24. **Santalales** Dumortier, 1829  
*Anthobolales* Dumortier, 1829  
*Loranthales* Dumortier, 1829  
*Olacales* Bentham, 1862  
*Medusagynales* Brenan, 1952
25. **Balanophorales** Dumortier, 1829  
*Cynomoriaceae* Burnett, 1835
- X. **Geranianae** Thorne *ex* Reveal, 1992  
 26. **Linales** Baskerville, 1839  
 27. **Rhizophorales** Tieghem

- ex* Reveal, 1993
28. **Geriales** Dumortier, 1829  
*Balsaminales* Lindley, 1833  
*Oxalidales* Heintze, 1927  
*Limnanthales* Nakai, 1930  
*Tropaeolales* Takhtajan *ex* Reveal, 1992
29. **Polygalales** Dumortier, 1829  
*Vochysiaceae* Dumortier, 1829  
*Malpighiales* C. Martius, 1835
- XI. **Rutanae** Takhtajan, 1967  
*Fabaceae* R. Dahlgren *ex* Reveal, 1992
30. **Rutales** Perleb, 1826<sup>5</sup>  
*Papilionales* Batsch, 1802  
*Citrales* Dumortier, 1829  
*Sapindales* Dumortier, 1829  
*Terebinthales* Dumortier, 1829  
*Acerales* Lindley, 1833  
*Coriariales* Lindley, 1833  
*Meliaceae* Lindley, 1833  
*Connarales* Burnett, 1835  
*Lotales* Burnett, 1835  
*Mimosales* Burnett, 1835  
*Aesculales* Bromhead, 1838  
*Fabales* Bromhead, 1838  
*Burserales* Baskerville, 1839  
*Cassiales* Horaninow, 1847  
*Leitneriales* Engler, 1897  
*Julianales* Engler, 1907  
*Moringales* Nakai, 1943
- XII. **Proteanae** Takhtajan, 1967  
31. **Proteales** Dumortier, 1829
- XIII. **Rosanae** Takhtajan, 1967  
*Hamamelidanae* Takhtajan, 1967  
*Juglandanae* Takhtajan *ex* Reveal, 1992  
*Podostemonanae* R. Dahlgren *ex* Reveal, 1992  
*Trochodendranae* Takhtajan *ex* Reveal, 1992
32. **Hamamelidales** Grisebach, 1854
- Trochodendrales* Takhtajan *ex* Cronquist, 1981  
*Cercidiphyllales* H.-H. Hu *ex* Reveal, 1993  
*Eupteleales* H.-H. Hu *ex* Reveal, 1993
33. **Casuarinales** Lindley, 1833
34. **Balanopales** Engler, 1897  
*Didymelales* Takhtajan, 1967  
*Daphniphyllales* Pulle *ex* Cronquist, 1981
- Buxales* Takhtajan *ex* Reveal, 1992
35. **Bruniales** Dumortier, 1829  
*Roridulales* Nakai, 1943  
*Geissolomatales* Takhtajan *ex* Reveal, 1992  
*Hydrostachyales* Diels *ex* Reveal, 1993  
*Myrothamnales* Nakai *ex* Reveal, 1993
36. **Juglandales** Dumortier, 1829  
*Myricales* Engler, 1897  
*Rhoipteleales* Novák *ex* Reveal, 1992
37. **Betulales** Burnett, 1835<sup>6</sup>  
*Corylaceae* Dumortier, 1829  
*Quercales* Burnett, 1835  
*Fagales* Engler, 1892
38. **Rosales** Perleb, 1826  
*Sanguisorbales* Dumortier, 1829  
*Crossosomatales* Takhtajan *ex* Reveal, 1993
39. **Saxifragales** Dumortier, 1829<sup>7</sup>  
*Sedales* Reichenbach, 1828  
*Crassulales* Lindley, 1833  
*Grossulariales* Lindley, 1833  
*Droserales* Grisebach, 1854  
*Diapensiales* Engler & Gilg, 1924  
*Cephalotales* Nakai, 1943  
*Parnassiales* Nakai, 1943  
*Stylidiales* Takhtajan *ex* Reveal, 1992

40. **Podostemales** Lindley, 1833<sup>8</sup>  
*Marathrales* Dumortier, 1829
41. **Cunoniales** Hutchinson, 1924
- XIV. **Aralianae** Takhtajan, 1967<sup>9</sup>  
*Cornanae* Thorne *ex* Reveal,  
 1992  
*Eucommianae* Takhtajan *ex* Re-  
 veal, 1992  
*Vitanae* Takhtajan *ex* Reveal,  
 1992
42. **Brexiales** Lindley, 1833<sup>10</sup>  
*Hortensiales* Grisebach, 1854  
*Hydrangeales* Nakai, 1943
43. **Cornales** Dumortier, 1829  
*Vitales* Burnett, 1835  
*Haloragales* Bromhead, 1838  
*Garryales* Lindley, 1846  
*Eucommiales* Nemejc *ex* Cron-  
 quist, 1981  
*Aralidiales* Takhtajan *ex* Re-  
 veal, 1992  
*Gunnerales* Takhtajan *ex* Re-  
 veal, 1992
44. **Pittosporales** Lindley, 1833  
*Byblidales* Nakai *ex* Reveal, 1993
45. **Araliales** Burnett, 1835  
*Angelicales* Burnett, 1835  
*Ammiales* J.K. Small, 1903  
*Apiales* Nakai, 1930  
*Torriceilliales* Takhtajan *ex* Re-  
 veal, 1992
46. **Dipsacales** Dumortier, 1829  
*Viburnales* Dumortier, 1829  
*Caprifoliaceae* Lindley, 1833  
*Valerianales* Burnett, 1835  
*Lonicerales* C. Baenitz, 1877  
*Adoxales* Nakai, 1949
- XV. **Asteranae** Takhtajan, 1967  
*Campanulanae* Takhtajan *ex*  
 Reveal, 1992
47. **Asterales** Lindley, 1833<sup>11</sup>  
*Ambrosiales* Dumortier, 1829  
*Calycerales* Burnett, 1835
- Carduales* J.K. Small, 1903
48. **Campanulales** Reichenbach  
 1828  
*Brunoniales* Lindley, 1833  
*Goodeniales* Lindley, 1833
- XVI. **Solananae** R. Dahlgren *ex* Re-  
 veal, 1992
49. **Solanales** Dumortier, 1829  
*Boraginales* Dumortier, 1829  
*Convolvulales* Dumortier, 1829  
*Nolanales* Lindley, 1833  
*Polemoniales* Bromhead, 1838  
*Echiales* Lindley, 1846
- XVII. **Loasanae** R. Dahlgren *ex* Re-  
 veal, 1992
50. **Loasales** Bessey, 1907
- XVIII. **Myrtanae** Takhtajan, 1967
51. **Myrtales** Reichenbach, 1828  
*Onagralaes* Reichenbach, 1828  
*Penaeales* Lindley, 1833  
*Oenotherales* Bromhead, 1838  
*Combretales* Baskerville, 1839  
*Lythrales* Oliver, 1895  
*Melastomatales* Oliver, 1895
- XIX. **Lamianae** Takhtajan, 1967<sup>12</sup>  
*Gentiananae* Thorne *ex* Reveal,  
 1992
52. **Rubiales** Dumortier, 1829  
*Asclepiadales* Dumortier, 1829  
*Cinchonales* Lindley, 1833  
*Gentianales* Lindley, 1833  
*Loganiaceae* Lindley, 1833  
*Apocynales* Bromhead, 1838  
*Giliales* Bromhead, 1838  
*Vincales* Horaninow, 1847  
*Chironiales* Grisebach, 1854  
*Theligonales* Nakai, 1942
53. **Lamiales** Bromhead, 1838<sup>13</sup>  
*Callitrichales* Dumortier, 1829  
*Gesneriales* Dumortier, 1829  
*Globulariales* Dumortier, 1829  
*Jasminales* Dumortier, 1829  
*Pinguiculales* Dumortier, 1829

- Rhinanthales** Dumortier, 1829
- Veratales** Dumortier, 1829
- Acanthales** Lindley, 1833
- Bignoniales** Lindley, 1833
- Lentibulariales** Lindley, 1833
- Oleales** Lindley, 1833
- Plantaginales** Lindley, 1833
- Scrophulariales** Lindley, 1833
- Hippuridales** Burnett, 1835
- Menthales** Burnett, 1835
- Ligustrales** Bischoff, 1840
- Verbenales** Horaninow, 1847
- X. Lilianae** Takhtajan, 1967
54. **Liliales** Perleb, 1826
- Colchicales* Dumortier, 1829
- Iridales* Dumortier, 1829
- Paridales* Dumortier, 1829
- Ixiales* Lindley, 1836
- Alstroemerales* Hutchinson, 1934
- Melanthiales* R. Dahlgren *ex* Reveal, 1992
55. **Burmanniales** Heintze, 1927
56. **Asparagales** Bromhead, 1838<sup>14</sup>
- Asteliales* Dumortier, 1829
- Narcissales* Dumortier, 1829
- Amaryllidales* Bromhead, 1840
- Agavales* Hutchinson, 1934
- Alliales* Traub, 1972
- Hanguanales* R. Dahlgren *ex* Reveal, 1992
- Velloziales* R. Dahlgren *ex* Reveal, 1992
57. **Taccales** Dumortier, 1829<sup>15</sup>
- Tamales* Dumortier, 1829
- Smilacales* Lindley, *Niz. Pl.* 23. 1833
- Dioscoreales* J.D. Hooker, 1876
58. **Orchidales** Dumortier, 1829
- XI. Hydatellanae** Takhtajan *ex* Reveal, 1992
59. **Hydatellales** Cronquist *in* Takhtajan, 1980
- XXII. **Triuridanae** Thorne *ex* Reveal, 1992
60. **Triuridales** J.D. Hooker *in* Le Maout & Decaisne, 1876
- XXIII. Alismatanae** Takhtajan, 1967
- Butomanae* Takhtajan *ex* Reveal, 1992
- Najadanae* Takhtajan *ex* Reveal, 1992
61. **Alismatales** Dumortier, 1829<sup>16</sup>
- Najadales* Reichenbach, 1828
- Hydrocharitales* Dumortier, 1829
- Butomales* Hutchinson, 1934
- Vallisneriales* Nakai, 1949
- Elodeales* Nakai, 1950
62. **Potamogetonales** Dumortier, 1829
- Aponogetonales* Hutchinson, 1934
- Juncaginales* Hutchinson, 1934
- Cymodoceales* Nakai, 1943
- Posidoniales* Nakai, 1943
- Zosterales* Nakai, 1943
- Ruppiales* Nakai, 1950
- Scheuchzeriales* B. Boivin, 1956
- XXIV. **Aranae** Thorne *ex* Reveal, 1992
- Cyclanthanae* Thorne *ex* Reveal, 1992
63. **Arales** Dumortier, 1829
64. **Cyclanthales** Nakai, 1930
65. **Acorales** Burnett, 1835
- XXV. Pandananae** Thorne *ex* Reveal, 1992
66. **Pandanales** Lindley, 1833
- XXVI. Arecanae** Takhtajan, 1967
67. **Arecales** Bromhead, 1840<sup>17</sup>
- Phoenicyles* Burnett, 1835
- Cocosales* Nakai, 1930
- XXVII. Commelinanae** Takhtajan, 1967
- Bromeliinae* R. Dahlgren *ex* Reveal, 1992
- Juncanae* Takhtajan, 1967

<i>Pontederianae</i> Takhtajan <i>ex</i> Reveal, 1992	<i>Zingiberales</i> Grisebach, 1854
<i>Typhanae</i> Thorne <i>ex</i> Reveal, 1992	72. <i>Commelinaceae</i> Dumortier 1829
<i>Zingiberanae</i> Takhtajan <i>ex</i> Reveal, 1992	<i>Ephemerales</i> Burnett, 1835
68. <b>Bromeliales</b> Dumortier, 1829	<i>Xyridales</i> Lindley, 1846
69. <b>Philydriales</b> Dumortier, 1829	<i>Eriocaulales</i> Nakai, 1930
<i>Pontederiales</i> J.D. Hooker, 1876	<i>Mayacales</i> Nakai, 1943
<i>Haemodorales</i> Hutchinson, 1934	73. <b>Juncales</b> Dumortier, 1829
70. <b>Typhales</b> Dumortier, 1829	<i>Cyperales</i> Burnett, 1835
71. <b>Cannales</b> Dumortier, 1829 <sup>18</sup>	74. <b>Poales</b> Burnett, 1835
<i>Amomales</i> Lindley, 1833	<i>Graminales</i> Dumortier, 1829
<i>Musales</i> Burnett, 1835	<i>Avenales</i> Bromhead, 1838
	<i>Restionales</i> Perleb, 1838

## NOTES

<sup>1</sup> The later Magnoliales (1838) is adopted over Laurales (1826) according to the principle of autonomy.

<sup>2</sup> The later Rafflesiales (1895) is adopted over Cytinales (1829) according to the principle of autonomy.

<sup>3</sup> The later Theales (1833) is adopted over the earlier Hypericales (1829) and Nepenthales (1829) according to the principle of autonomy.

<sup>4</sup> Brassicales (1838) is adopted over Resedales (1829) as Brassicales is considered to be an alternative name for the descriptive ordinal name, Cruciferae proposed by Perleb in 1826.

<sup>5</sup> Rutales (1826) is retained over the earlier Papilionales (1802) according to the principle of autonomy.

<sup>6</sup> Thorne used Betulales (1835), a later name than Corylales (1829), but as he did not accept Corylaceae, this name being rejected if combined with Betulaceae (App. IIB; Greuter *et al.* 1988), Betulales is retained.

<sup>7</sup> Saxifragales (1829) is retained, rather than Sedales (1828) because Thorne did not accept Sedaceae.

<sup>8</sup> Podostemales (1833) is retained, rather than Marathrales (1829) because Thorne did not accept Marathraceae.

<sup>9</sup> Aralianae (1967) has priority over Cornanae (1992), the name adopted by Thorne.

<sup>10</sup> Brexiales (1833) has priority over Hydrangeales (1943), the name adopted by Thorne.

<sup>11</sup> *Asterales* (1833) is adopted, rather than *Ambrosiales* (1829), according to the principle of autonomy and because *Asteraceae* is conserved over *Ambrosiaceae* (App. IIB; Greuter *et al.* 1988).

<sup>12</sup> *Lamianae* (1967) has priority over *Gentiananae* (1992), the name adopted by Thorne.

<sup>13</sup> *Lamiales* (1838) is adopted over other competing names proposed in 1829 as *Lamiales* is an autonym of *Lamianae*. It may also be retained because *Lamiales* is an alternative name for the descriptive ordinal name, *Labiatae*, proposed by Dumortier in 1829. In any case, *Scrophulariales* (1833), adopted by Thorne, is a latter name.

<sup>14</sup> *Asparagales* (1838) is retained, rather than *Asteliiales* (1829) because Thorne did not accept *Asteliaceae*.

<sup>15</sup> *Taccales* (1829) has priority over both *Smilacales* (1833) and *Dioscoreales* (1876). The latter name was adopted by Thorne.

<sup>16</sup> The later *Alismatales* (1829) is adopted over *Najadales* (1828) according to the principle of autonomy.

<sup>17</sup> *Arecales* (1840) is adopted over *Phoenicales* (1835) because *Arecales* is considered to be an alternative name for the descriptive ordinal name, *Palmae*, proposed by Perleb in 1826, and *Phoenicaceae* was not accepted by Thorne.

<sup>18</sup> *Cannales* (1829) has priority over *Zingiberales* (1854), the name adopted by Thorne, as does *Musales* (1835).

#### ACKNOWLEDGMENT

Thanks are extended to Dr. R.F. Thorne and Dr. J.H. Wiersema for reviewing the manuscript. Work on ordinal and plant family names in Europe was supported by National Science Foundation Grant BSR-8812816. This is Scientific Article A-6404, Contribution No. 8595, of the Maryland Agricultural Experiment Station and Cooperative Extension Service.

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