

The Taxonomicon

Systema Naturae 2000

Classification of
Class *Dinophyceae*
(protists)
down to Genus

Compiled by Drs. S.J. Brands
Universal Taxonomic Services

18 Apr 2017

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- Class Dinophyceae -

[Kingdom **Chromista**: Phylum **Miozoa** - protists]

Class **Dinophyceae** Pascher (1914)

- 01 Genus †**Cobricosphaeridium** Harland & Sarjeant (1970), incertae sedis
- 02 Genus †**Diacrocanthidium** Deflandre & Foucher (1967), incertae sedis
- 03 Genus †**Prolixosphaeridium** Davey, Downie, Sarjeant & Williams (1966), incertae sedis
- 04 Genus †**Suibindia** Jingxian Yu (1982), incertae sedis
- 05 Genus †**Xylochoarion** Erkmen & Sarjeant (1978), incertae sedis
- 06 Genus **Berghiella** Kof. & J.R. Michener (1911), incertae sedis
- 07 Genus **Ceratoperidinium** Margalef ex A.R. Loeb. (1980), incertae sedis
- 08 Genus **Pseudoactiniscus** Bursa (1969), incertae sedis
- 09 Genus **Pyramidodinium** T. Horig. & C. Sukigara (2005), incertae sedis
- 10 Genus **Thaumatomodinium** Böhm (1933), incertae sedis
- 11 Order **Desmocapsales** Pascher (1914), incertae sedis
 - 1 Family **Desmocapsaceae*** Pascher (1914)
 - 1 Genus **Adinimonas** Schiller (1928)
 - 2 Genus **Desmocapsa*** Pascher (1914)
 - 3 Genus **Desmomastix** Pascher (1914)
 - 4 Genus **Pleromonas** Pascher (1914)
- 12 Order **Haplozoonales** Poche (1913), incertae sedis
 - 1 Family **Haplozoaceae*** Chatton (1920)
 - 1 Genus **Haplozoon*** Dogiel (1906)
- 13.1.1 Order **Dinotrichales** Pascher (1914), incertae sedis
 - 1 Family **Crypthecodiniaceae** Biecheler ex Chatton (1952)
 - 1 Genus **Crypthecodinium*** Biecheler (1938)
 - 2 Family **Dinotrichaceae*** Pascher (1931)
 - 1 Genus **Dinothrix*** Pascher (1914)
 - 2 Genus **Durinskia** Carty & El.R. Cox (1986)
 - 3 Genus **Galeidinium** M. Tamura & T. Horig. (2005)
 - 4 Genus **Kryptoperidinium** Er. Lindem. (1924)
- 13.1.2 Order **Dinococcales** Pascher (1914), incertae sedis
 - 1 Family **Phytodiniaceae*** G.A. Klebs (1912)
 - 01 ?Genus **Rufusiella** A.R. Loeb. (1967)
 - 02.1 Genus **Borghiella** Moestrup, Gert Hansen & Daugbjerg (2008)
 - 02.2 Genus **Baldinia** Gert Hansen & Daugbjerg (2007)
 - 03.1 Genus **Cystodinium** G.A. Klebs (1912)
 - 03.2 Genus **Dinastridium** Pascher (1927)
 - 04 Genus **Dinamoebidium** Pascher (1916)
 - 05 Genus **Dinoclonium** Pascher (1927)
 - 06 Genus **Dinococcus** Fott (1960)
 - 07 Genus **Filodinium** Cachon & Cachon-Enj. (1968)
 - 08 Genus **Hypnodinium** G.A. Klebs (1912)
 - 09 Genus **Manchudinium** Skvortzov (1972)
 - 10 Genus **Phytodinium*** G.A. Klebs (1912)
 - 11 Genus **Prosoaulax** Calado & Moestrup (2005)
 - 13 Genus **Sphaerodinium** Wolosz. (1916)
 - 14 Genus **Tetradinium** G.A. Klebs (1912)
 - 2.1 Family †**Suessiaceae** Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Genus †**Beaumontella** Below (1987)
 - 2 Genus †**Noricysta** Bujak & Fisher (1976)
 - 3 Genus †**Suessia*** Morbey (1975)
 - 4 Genus †**Wanneria** Below (1987)
 - 2.2 Family **Symbiodiniaceae** Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1.1 Genus **Biecheleria** Moestrup, K.C.R. Lindberg & Daugbjerg (2009)
 - 1.2 Genus **Biecheleriopsis** Moestrup, K.C.R. Lindberg & Daugbjerg (2009)
 - 1.3 Genus **Pelagodinium** Siano, Montresor, Probert & de Vargas (2010)
 - 1.4 Genus **Polarella** Montresor, Procaccini & Stoecker (1999)
 - 1.5 Genus **Protodinium** Lohmann (1908)
 - 2 Genus **Aureodinium** J.D. Dodge (1967)
 - 3 Genus **Piscinoodinium** J. Lom (1981)
 - 4 Genus **Symbiodinium*** Freud. (1962)
- 13.2 Subclass **Gymnodiniphycidae** Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Genus **Akashiwo** Gert Hansen & Moestrup (2000) [higher rank(s) implied]
 - 2.1 Order **Brachidiniales** A.R. Loeb. ex Sournia (1984)
 - 1 Family **Brachidiniaceae*** Sournia (1972)
 - 1.1 Genus **Brachidinium*** F.J.R. Taylor (1963)
 - 1.2 Genus **Asterodinium** Sournia (1972)
 - 1.3 Genus **Microceratium** Sournia (1972)
 - 2 Genus **Gynogonadinium** F. Gómez (2007)
 - 3.1 Genus **Karenia** Gert Hansen & Moestrup (2000)
 - 3.2 Genus **Karlodinium** J. Larsen (2000)
 - 3.3 Genus **Takayama** de Salas, Bolch, L. Botes & Hallegr. (2003)
 - 4 Genus **Pavillardia** Kof. & Swezy (1920)

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- 5 Genus *Pselodinium* Sournia (1972)
 - 6 Genus *Torodinium* Kof. & Swezy (1921)
 - 2.2.1 Order *Gymnodiniales** Apstein (1909)
 - 01.1 Family *Chytridiaceae* Cachon & Cachon-Enj. (1968)
 - 1 Genus *Chytridium** Chatton (1912)
 - 2 Genus *Dissodinium* G.A. Klebs (1916)
 - 3 Genus *Myxodinium* Cachon, Cachon-Enj. & Bouq. (1968)
 - 4 Genus *Schizochytridium* Elbr. (1988)
 - 5 Genus *Syltodinium* Drebes (1988)
 - 01.2.1 Family *Gymnodiniaceae** Lank. (1885)
 - 01 ?Genus †*Algidasphaeridium* Matsuoka & Bujak (1988)
 - 02 Genus *Barrufeta* N. Sampedro & S. Fraga (2011)
 - 03 Genus *Gymnodinium** F. Stein (1878)
 - 04 Genus *Gyrodiniellum* N.S. Kang, H.J. Jeong & Moestrup (2011)
 - 05 Genus *Lepidodinium* M. Watanabe, S. Suda, I. Inouye, T. Sawaguchi & M. Chihara (1990)
 - 06 Genus *Paragymnodinium* N.S. Kang, H.J. Jeong, Moestrup & W. Shin (2010)
 - 07.1 Genus *Polykrikos* Buetschli (1873)
 - 07.2 Genus *Pheopolykrikos* Chatton (1933)
 - 08 Genus *Spiniferodinium* T. Horig. & Chihara (1987)
 - 01.2.2 Family *Warnowiaceae* Er. Lindem. (1928)
 - 1 Genus *Erythropsidinium* P.C. Silva (1960)
 - 2 Genus *Greuetodinium* A.R. Loeb. (1980)
 - 3 Genus *Nematodinium* Kof. & Swezy (1921)
 - 4.1 Genus *Proterothropsis* Kof. & Swezy (1920)
 - 4.2 Genus *Nematopsides* Greuet (1973)
 - 5 Genus *Warnovia** Er. Lindem. (1928)
 - 02 Genus "*Genus of Gyrodinium dorsum*" F. Gómez (2012) [higher rank(s) implied]
 - 03 Genus *Togula* Flø Jørg., Sh. Murray & Daugbjerg (2004) [higher rank(s) implied]
 - 04 Genus *Apicoporus* S.F. Sparmann, B.S. Leander & Hoppenrath (2008) [higher rank(s) implied]
 - 05 Family "*Family of Amphidinium*" F. Gómez (2012)
 - 1 Genus *Amphidinium** Clap. & J. Lachm. (1859)
 - 2 Genus *Schillingia* J. Schiller (1932)
 - 3 Genus *Trochodinium* W. Conrad (1926)
 - 06 Genus *Cochlodinium* F. Schütt (1896) [higher rank(s) implied]
 - 07 Family "*Family of Gyrodinium*" F. Gómez (2012)
 - 1 Genus *Ceratodinium* W. Conrad (1926)
 - 2 Genus *Gyrodinium** Kof. & Swezy (1921)
 - 3 Genus *Plectodinium* Biecheler (1934)
 - 4 Genus *Sclerodinium* J.D. Dodge (1981)
 - 08 Genus "*Genus of Amphidinium longum*" F. Gómez (2012) [higher rank(s) implied]
 - 09 Genus "*Genus of Amphidinium semilunatum*" F. Gómez (2012) [higher rank(s) implied]
 - 10 Genus *Balechina* Loeb. & A.R. Loeb. (1968) [higher rank(s) implied]
 - 11 Genus *Moestrupia* Gert Hansen & Daugbjerg (2011) [higher rank(s) implied]
 - 2.2.2 Order *Ptychodiscales* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Family *Ptychodiscaceae** Lemmerm. (1899)
 - 1 Subfamily †*Dinogymnioideae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Genus †*Alisogymnium* Lentin & Vozzhennikova (1990)
 - 2 Genus †*Amphigymnium* Lentin & Vozzhennikova (1990)
 - 3 Genus †*Dinogymnium** Evitt, Clarke & Verdier (1967)
 - 4 Genus †*Yolkinigymnium* Lentin & Vozzhennikova (1990)
 - 2 Subfamily *Ptychodiscoideae** Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Genus *Ptychodiscus** F. Stein (1883)
 - 14 Subclass *Peridiniphycidae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 01 ?Genus †*Lobionella* Batten & Lister (1988)
 - 02 ?Genus †*Orobodinium* Gocht & Wille (1990)
 - 03 ?Genus †*Tetranguladinium* Jingxian Yu, Mongrong Sun, Suying Sun & Shaozhi Mao (1983)
 - 04 Genus †*Apiculadinium* Jingxian Yu, Mongrong Sun, Suying Sun & Shaozhi Mao (1981), incertae sedis
 - 05 Genus †*Aquadulcum* Harland & Sarjeant (1970), incertae sedis
 - 06 Genus †*Dodekovia* Dörhöfer & Davies (1980), incertae sedis
 - 07 Genus †*Gorkadinium* Loeb. & A.R. Loeb. (1966), incertae sedis
 - 08 Genus †*Hebecysta* Bujak & Fisher (1976), incertae sedis
 - 09 Genus †*Heibergella* Bujak & Fisher (1976), incertae sedis
 - 10 Genus †*Lunatadinium* Brideaux & McIntyre (1973), incertae sedis
 - 11 Genus †*Mikropithon* Agelopoulos (1967), incertae sedis
 - 12 Genus †*Muiriella* Churchill & Sarjeant (1962), incertae sedis
 - 13 Genus †*Neuffenia* Brenner & Dürr (1986), incertae sedis
 - 14 Genus †*Opaeopsomus* Pocock (1972), incertae sedis
 - 15 Genus †*Palaeoglenodinium* Deflandre (1935), incertae sedis
 - 16 Genus †*Palaeohystrichodinium* Chengquan He, Shenzhao Zhu & Guangxing Jin (1989), incertae sedis
 - 17 Genus †*Palaeosphaerium* Górka (1965), incertae sedis
 - 18 Genus †*Palaeotetradinium* Deflandre (1936), incertae sedis
 - 19 Genus †*Pentafidia* Backhouse (1988), incertae sedis

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- 20 Genus †*Phallocysta* Dörhöfer & Davies (1980), incertae sedis
 - 21 Genus †*Pseudodeflandrea* Alberti (1959), incertae sedis
 - 22 Genus †*Pseudokomewuia* Chengquan He (1980), incertae sedis
 - 23 Genus †*Pseudostephodinium* Jingxian Yu, Mongrong Sun, Suying Sun & Shaozhi Mao (1981), incertae sedis
 - 24 Genus †*Stenopyxinium* Deflandre (1968), incertae sedis
 - 25 Genus †*Sverdrupiella* Bujak & Fisher (1976), incertae sedis
 - 26 Genus †*Vectensia* Batten & Lister (1988), incertae sedis
 - 27 Family †*Comparodiniaceae* Vozzhennikova (1979), incertae sedis
 - 1 Genus †*Biorbifera* Habib (1972)
 - 2 Genus †*Valvaeodinium* Morgenroth (1970)
 - 28 Family †*Stephanelytraceae* Stover, Sarjeant & Drugg (1977), incertae sedis
 - 1 Genus †*Stephanelytron** Sarjeant (1961)
 - 2 Genus †*Lagenadinium* Piel (1985)
 - 29 Family †*Dollidiniaceae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993), incertae sedis
 - 1 Genus †*Dollidinium** Helby & Stover (1987)
 - 2 Genus †*Horologinella* Cookson & Eisenack (1962)
 - 30 Order *Gonyaulacales* F.J.R. Taylor (1980)
 - 01 ?Genus †*Dissimulidinium* May, Stevens & Partridge (1987)
 - 02 ?Genus †*Impletosphaeridium* Morgenroth (1966)
 - 03 ?Genus †*Membranilarnacia* Eisenack (1963)
 - 04 ?Genus †*Paucibucina* Jiabo (1978)
 - 05 ?Genus †*Reticulatosphaera* Matsuoka (1983)
 - 06 ?Genus †*Tetrachacysta* Backhouse (1988)
 - 07 ?Genus †*Trigonopyxidia* Cookson & Eisenack (1961)
 - 08 Genus †*Aiora* Cookson & Eisenack (1960), incertae sedis
 - 09 Genus †*Amiculospaera* Harland (1979), incertae sedis
 - 10 Genus †*Atopodinium* Drugg (1978), incertae sedis
 - 11 Genus †*Balcattia* Cookson & Eisenack (1974), incertae sedis
 - 12 Genus †*Balteocysta* Stover & Evitt (1978), incertae sedis
 - 13 Genus †*Batiacasphaera* Drugg (1970), incertae sedis
 - 14 Genus †*Boreocysta* Stover & Evitt (1978), incertae sedis
 - 15 Genus †*Bourkidinium* Morgan (1975), incertae sedis
 - 16 Genus †*Bradleyella* Woollam (1983), incertae sedis
 - 17 Genus †*Caligodinium* Drugg (1970), incertae sedis
 - 18 Genus †*Carnarvonodinium* Parker (1988), incertae sedis
 - 19 Genus †*Cassiculosphaeridia* Davey (1969), incertae sedis
 - 20 Genus †*Cauca* Davey & Verdier (1971), incertae sedis
 - 21 Genus †*Cerebrocysta* Bujak (1980), incertae sedis
 - 22 Genus †*Chlamydophorella* Cookson & Eisenack (1958), incertae sedis
 - 23 Genus †*Cirrusphaera* Monteil (1992), incertae sedis
 - 24 Genus †*Cleistosphaeridium* Davey, Downie, Sarjeant & Williams (1966), incertae sedis
 - 25 Genus †*Codoniella* Cookson & Eisenack (1961), incertae sedis
 - 26 Genus †*Dapsilidinium* Bujak, Downie, Eaton & Williams (1980), incertae sedis
 - 27 Genus †*Desmocysta* Duxbury (1983), incertae sedis
 - 28 Genus †*Dingodinium* Cookson & Eisenack (1958), incertae sedis
 - 29 Genus †*Distatodinium* Eaton (1976), incertae sedis
 - 30 Genus †*Dorocysta* Davey (1970), incertae sedis
 - 31 Genus †*Duosphaeridium* Davey & Williams (1966), incertae sedis
 - 32 Genus †*Ellipsodinium* Clarke & Verdier (1967), incertae sedis
 - 33 Genus †*Ellipsoidictyum* Klement (1960), incertae sedis
 - 34 Genus †*Elytrocysta* Stover & Evitt (1978), incertae sedis
 - 35 Genus †*Epioplosphaera* Klement (1960), incertae sedis
 - 36 Genus †*Exochosphaeridium* Davey, Downie, Sarjeant & Williams (1966), incertae sedis
 - 37 Genus †*Fistulacysta* Davey (1988), incertae sedis
 - 38 Genus †*Flamingoia* Stevens & Helby (1987), incertae sedis
 - 39 Genus †*Fusiformacysta* Morgan (1975), incertae sedis
 - 40 Genus †*Gagiella* Backhouse (1988), incertae sedis
 - 41 Genus †*Gardodinium* Alberti (1961), incertae sedis
 - 42 Genus †*Gramocysta* Lund & Lund-Christensen (1990), incertae sedis
 - 43 Genus †*Hapsidaulax* Sarjeant (1975), incertae sedis
 - 44 Genus †*Heslertonia* Sarjeant (1966), incertae sedis
 - 45 Genus †*Heterosphaeridium* Cookson & Eisenack (1968), incertae sedis
 - 46 Genus †*Hurlandsia* Lister & Batten (1988), incertae sedis
 - 47 Genus †*Indodinium* Kumar (1986), incertae sedis
 - 48 Genus †*Jansonia* Pocock (1972), incertae sedis
 - 49 Genus †*Labyrinthodinium* Piasecki (1980), incertae sedis
 - 50 Genus †*Lacunodinium* He (1984), incertae sedis
 - 51 Genus †*Laticavodinium* Wilson & Sarjeant (1984), incertae sedis
 - 52 Genus †*Levisphaera* Davey (1988), incertae sedis
 - 53 Genus †*Membranilarnax* Wetzel (1933), incertae sedis
 - 54 Genus †*Mendicodinium* Morgenroth (1970), incertae sedis
 - 55 Genus †*Microsphaeridium* Benedek (1972), incertae sedis

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- 56 Genus †*Montanarocysta* Corradini (1973), incertae sedis
57 Genus †*Mooradinium* Backhouse (1988), incertae sedis
58 Genus †*Omatidium* Courtinat (1980), incertae sedis
59 Genus †*Pannosiella* Batten & Lister (1988), incertae sedis
60 Genus †*Papuadinium* Davey (1988), incertae sedis
61 Genus †*Parvocavatus* Gitmez (1970), incertae sedis
62 Genus †*Parvulodinium* Dodekova (1975), incertae sedis
63 Genus †*Paucisphaeridium* Bujak, Downie, Eaton & Williams (1980), incertae sedis
64 Genus †*Peridictyocysta* Cookson & Eisenack (1974), incertae sedis
65 Genus †*Phanerodinium* Deflandre (1937), incertae sedis
66 Genus †*Polygonifera* Habib (1972), incertae sedis
67 Genus †*Productodinium* Davey (1988), incertae sedis
68 Genus †*Raetiaedinium* Kirsch (1991), incertae sedis
69 Genus †*Raphidodinium* Deflandre (1936), incertae sedis
70 Genus †*Reticulasphaera* Harding (1998), incertae sedis
71 Genus †*Romanodinium* Baltes (1971), incertae sedis
72 Genus †*Sahulidinium* Stover & Helby (1987), incertae sedis
73 Genus †*Sokolovidinium* Lentin & Vozzhennikova (1990), incertae sedis
74 Genus †*Spiniferopsis* He (1984), incertae sedis
75 Genus †*Tanyosphaeridium* Davey & Williams (1966), incertae sedis
76 Genus †*Valensiella* Eisenack (1963), incertae sedis
77 Genus †*Warrenia* Monteil (1992), incertae sedis
78 Genus †*Xiphophoridium* Sarjeant (1966), incertae sedis
79 Genus *Amphidiniella* T. Horig. (1995), incertae sedis
80 Genus *Halostylodinium* T. Horig. & Yoshizawa-Ebata (2000), incertae sedis
81 Genus *Pileidinium* M. Tamura & T. Horig. (2005), incertae sedis
82 Family *Thecadiniaceae* Balech (1956), incertae sedis
 1 Genus *Thecadinium** Kof. & Skogsb. (1928)
83 Family †*Shublikodiniaceae* Wiggins (1973)
 1 Genus †*Dapcodinium* Evitt (1961)
 2 Genus †*Rhaetogonyaulax* Sarjeant (1966)
84.1 Genus †*Rhiptocorys* Lejeune-Carpentier & Sarjeant (1983), incertae sedis
84.2 Family †*Mancodiniaceae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 1 Subfamily †*Luehndeioideae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 1 Genus †*Luehndea** Morgenroth (1970)
 2 Subfamily †*Mancodiniioideae** Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 1 ?Genus †*Dinaurelia* Wille & Gocht (1985)
 2 ?Genus †*Rosswangia* Wille & Gocht (1985)
 3 Genus †*Mancodinium** Morgenroth (1970)
 4 Genus †*Maturodinium* Morgenroth (1970)
84.3 Family †*Scrinocassiaceae* Sarjeant & Downie (1966)
 1 Genus †*Parascrinocassis* Below (1990)
 2 Genus †*Scrinocassis** Gocht (1964)
84.4 Family †*Lotharingiaceae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 1 Genus †*Lotharingia** Below (1990)
 2 Genus †*Saxodinium* Below (1990)
84.5 Family †*Pareodiniaceae* Gocht (1957)
 1 ?Genus †*Cornudinium* Pocock (1972)
 2 ?Genus †*Pluriarvalium* Sarjeant (1962)
 3 Genus †*Tabulodinium* Dodekova (1990), incertae sedis
 4 Subfamily †*Broomeoideae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 01 ?Genus †*Evansia* Pocock (1972)
 02 ?Genus †*Paranetrelytron* Sarjeant (1966)
 03 Genus †*Aprobolocysta* Duxbury (1977)
 04 Genus †*Batioladinium* Brideaux (1975)
 05 Genus †*Broomea** Cookson & Eisenack (1958)
 06 Genus †*Cantulodinium* Alberti (1961)
 07 Genus †*Carpahodinium* Drugg (1978)
 08 Genus †*Kalyptea* Cookson & Eisenack (1960)
 09 Genus †*Netrelytron* Sarjeant (1961)
 10 Genus †*Paraevansia* Below (1990)
 5 Subfamily †*Pareodiniioideae** Below (1990)
 1 ?Genus †*Imbatodinium* Vozzhennikova (1967)
 2 Genus †*Arkellea* Below (1990)
 3 Genus †*Gochteodinia* Norris (1978)
 4 Genus †*Gresslyodinium* Below (1990)
 5 Genus †*Lacrymodinium* Albert, Evitt & Stein (1986)
 6 Genus †*Paragonyaulacysta* Johnson & Hills (1973)
 7 Genus †*Pareodinia** Deflandre (1947)
 8 Genus †*Protobatioladinium* Nøhr-Hansen (1986)
85 Family *Protoceratiaceae* Er. Lindem. (1928)
 1.1 Genus †*Maghrebinia* Below (1981)
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- 1.2 Genus *Ceratocorys* F. Stein (1883)
 - 2 Genus *Protoceratium** Bergh (1881)
 - 3 Genus *Schuetiella* Balech (1988)
 - 86 Family *Ceratiaceae* Kof. (1907)
 - 01 ?Genus †*Australisphaera* Davey (1978)
 - 02 Genus †*Aptea* Eisenack (1958)
 - 03 Genus †*Balmula* Bint (1986)
 - 04 Genus †*Endoceratium* Vozzhennikova (1965)
 - 05 Genus †*Muderongia* Cookson & Eisenack (1958)
 - 06 Genus †*Nyktericysta* Bint (1986)
 - 07 Genus †*Odontochitina* Deflandre (1935)
 - 08 Genus †*Odontochitinopsis* Eisenack (1961)
 - 09 Genus †*Phoberocysta* Millioud (1969)
 - 10 Genus †*Pseudoceratium* Gocht (1957)
 - 11 Genus †*Vesperopsis* Bint (1986)
 - 12 Genus †*Xenascus* Cookson & Eisenack (1969)
 - 13 Genus *Ceratium** Schrank (1793)
 - 14 Genus *Neoceratium* F. Gómez, D. Moreira & P. López-García (2009)
 - 87 Family *Ostreopsidaceae* Er. Lindem. (1928)
 - 1.1 Genus †*Heteraulacacysta* Drugg & Loeb. (1967)
 - 1.2 Genus *Gambierdiscus* Adachi & Fukuyo (1979)
 - 1.3.1 Genus *Fukuyoa* F. Gómez, D. Qiu, R.M. Lopes & S. Lin (2015)
 - 1.3.2 Genus *Triadinium* J.D. Dodge (1981)
 - 2.1 Genus *Alexandrium* Halim (1960)
 - 2.2 Genus *Coolia* Meunier (1919)
 - 2.3 Genus *Centrodinium* Kof. (1907)
 - 2.4 Genus *Ostreopsis** Johannes Schmidt (1901)
 - 2.5 Genus *Pachydinium* Pavill. (1915)
 - 2.6.1 Genus †*Biconidinium* Islam (1983)
 - 2.6.2 Genus †*Dinopterygium* Deflandre (1935)
 - 2.6.3 Genus †*Eisenackia* Deflandre & Cookson (1955)
 - 2.6.4 Genus †*Eocladopyxis* Morgenroth (1966)
 - 2.6.5 Genus †*Homotryblum* Davey & Williams (1966)
 - 2.6.6 Genus †*Taleisphaera* Duxbury (1979)
 - 2.6.7 Genus †*Tubidermodinium* Morgenroth (1966)
 - 2.6.8 Genus *Pyrodinium* L. Plate (1906)
 - 88.1 Family †*Areoligeraceae* Evitt (1963)
 - 01 Genus †*Adnatosphaeridium* Williams & Downie (1966)
 - 02 Genus †*Areoligera** Lejeune-Carpentier (1938)
 - 03 Genus †*Atlantodinium* Zotto, Drugg & Habib (1987)
 - 04 Genus †*Canningia* Cookson & Eisenack (1960)
 - 05 Genus †*Canninginopsis* Cookson & Eisenack (1962)
 - 06 Genus †*Cassidium* Drugg (1967)
 - 07 Genus †*Cauveridinium* Khowaja-Ateequzaman & Jain (1990)
 - 08 Genus †*Chiropteridium* Gocht (1960)
 - 09 Genus †*Circulodinium* Alberti (1961)
 - 10 Genus †*Cyclonephelium* Deflandre & Cookson (1955)
 - 11 Genus †*Gerdicysta* Liengjareern, Costa & Downie (1980)
 - 12 Genus †*Glaphyrocysta* Stover & Evitt (1978)
 - 13 Genus †*Membranophoridium* Gerlach (1961)
 - 14 Genus †*Palynodinium* Gocht (1970)
 - 15 Genus †*Renidinium* Morgenroth (1968)
 - 16 Genus †*Riculacysta* Stover (1977)
 - 17 Genus †*Schematophora* Deflandre & Cookson (1955)
 - 18 Genus †*Senoniasphaera* Clarke & Verdier (1967)
 - 19 Genus †*Tenua* Eisenack (1958)
 - 88.2 Family *Gonyaulacaceae** Er. Lindem. (1928)
 - 01 ?Genus †*Amphorosphaeridium* Davey (1969)
 - 02 ?Genus †*Arachnodinium* Wilson & Clowes (1982)
 - 03 ?Genus †*Archeotectatum* Habib (1972)
 - 04 ?Genus †*Barbatacysta* Courtinat (1989)
 - 05 ?Genus †*Chytroisphaeridia* (Sarjeant) Downie & Sarjeant (1965)
 - 06 ?Genus †*Cometodinium* Deflandre & Courteville (1940)
 - 07 ?Genus †*Compositosphaeridium* Dodekova (1974)
 - 08 ?Genus †*Coronifera* Cookson & Eisenack (1958)
 - 09 ?Genus †*Corradinisphaeridium* Masure (1986)
 - 10 ?Genus †*Diphasiosphaera* Duxbury (1980)
 - 11 ?Genus †*Discorsia* Duxbury (1977)
 - 12 ?Genus †*Dissiliodinium* Drugg (1978)
 - 13 ?Genus †*Emslandia* Gerlach (1961)
 - 14 ?Genus †*Escharisphaeridia* Erkmén & Sarjeant (1980)
 - 15 ?Genus †*Fibrocysta* Stover & Evitt (1978)
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- 16 ?Genus †*Filisphaera* Bujak (1984)
17 ?Genus †*Foucheria* Monteil (1992)
18 ?Genus †*Galeacysta* Corradini & Biffi (1988)
19 ?Genus †*Gongylodinium* Fenton, Neves & Piel (1980)
20 ?Genus †*Gordiacysta* Miles (1990)
21 ?Genus †*Habibacysta* Head, Norris & Mudie (1989)
22 ?Genus †*Helbydinium* Snape (1992)
23 ?Genus †*Hemisphaeridium* Bujak (1980)
24 ?Genus †*Histiophora* Klement (1960)
25 ?Genus †*Hystriochodinium* Deflandre (1935)
26 ?Genus †*Hystriosphraerina* Alberti (1961)
27 ?Genus †*Invertocysta* Edwards (1984)
28 ?Genus †*Kaiwaradinium* Wilson (1978)
29 ?Genus †*Kiokansium* Stover & Evitt (1978)
30 ?Genus †*Komewuia* Cookson & Eisenack (1960)
31 ?Genus †*Lagenorhytis* Duxbury (1979)
32 ?Genus †*Lanternosphaeridium* Morgenroth (1966)
33 ?Genus †*Liesbergia* Berger (1986)
34 ?Genus †*Melitasphaeridium* Harland & Hill (1979)
35 ?Genus †*Muraticysta* Head, Norris & Mudie (1989)
36 ?Genus †*Nelchinopsis* Wiggins (1972)
37 ?Genus †*Neodiacrodium* Federova-Shakhmundes (1975)
38 ?Genus †*Nexosispinum* Davey (1979)
39 ?Genus †*Pervosphaeridium* Yun (1981)
40 ?Genus †*Pilosidinium* Courtinat (1989)
41 ?Genus †*Polystephanephorus* Sarjeant (1961)
42 ?Genus †*Protoellipsodinium* Davey & Verdier (1971)
43 ?Genus †*Pyxidiniopsis* Habib (1975)
44 ?Genus †*Saturnodinium* Brinkhuis, Powell & Zevenboom (1992)
45 ?Genus †*Scriniodinium* Klement (1957)
46 ?Genus †*Sentusidinium* Sarjeant & Stover (1978)
47 ?Genus †*Stephodinium* Deflandre (1936)
48 ?Genus †*Surculosphaeridium* Davey, Downie, Sarjeant & Williams (1966)
49 ?Genus †*Trichodinium* Eisenack & Cookson (1960)
50 ?Genus †*Vexillocysta* Harding (1998)
51 ?Genus †*Xenicodinium* Klement (1960)
52 ?Genus †*Yalkalpodinium* Morgan (1980)
53 Genus †*Actinotheca* Cookson & Eisenack (1960), incertae sedis
54 Genus †*Aireiana* Cookson & Eisenack (1965), incertae sedis
55 Genus †*Belodinium* Cookson & Eisenack (1960), incertae sedis
56 Genus †*Calliosphaeridium* Davey & Williams (1966), incertae sedis
57 Genus †*Furzidinium* Stancliffe (1991), incertae sedis
58 Genus †*Gelatia* Bujak (1984), incertae sedis
59 Genus †*Glossodinium* Ioannides, Stavrinos & Downie (1977), incertae sedis
60 Genus †*Hemiplacophora* Cookson & Eisenack (1965), incertae sedis
61 Genus †*Hurunuia* Wilson (1984), incertae sedis
62 Genus †*Isthmocystis* Duxbury (1979), incertae sedis
63 Genus †*Mosaicodinium* Dodekova (1990), incertae sedis
64 Genus †*Sirmiodiniopsis* Drugg (1978), incertae sedis
65 Genus †*Taeniophora* Klement (1960), incertae sedis
66 Subfamily †*Leptodinioidae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 01 ?Genus †*Clathroctenocystis* Wiggins (1972)
 02 ?Genus †*Conosphaeridium* Cookson & Eisenack (1969)
 03 ?Genus †*Egmontodinium* Gitmez & Sarjeant (1972)
 04 ?Genus †*Energlynia* Sarjeant (1976)
 05 ?Genus †*Litosphaeridium* Davey & Williams (1966)
 06 ?Genus †*Ochetodinium* Damassa (1979)
 07 ?Genus †*Perisseiasphaeridium* Davey & Williams (1966)
 08 ?Genus †*Stiphrosphaeridium* Davey (1982)
 09 ?Genus †*Wanaea* Cookson & Eisenack (1958)
 10 Genus †*Acanthaulax* Sarjeant (1968)
 11 Genus †*Ambonosphaera* Fensome (1979)
 12 Genus †*Amphorula* Dodekova (1969)
 13 Genus †*Areosphaeridium* Eaton (1971)
 14 Genus †*Carpodinium* Cookson & Eisenack (1962)
 15 Genus †*Cernicysta* Stover & Helby (1987)
 16 Genus †*Ctenidodinium* Deflandre (1939)
 17 Genus †*Cymososphaeridium* Davey (1982)
 18 Genus †*Diacanthum* Habib (1972)
 19 Genus †*Dichadogonyaulax* Sarjeant (1966)
 20 Genus †*Durotrigia* Bailey (1987)
 21 Genus †*Eatonicysta* Stover & Evitt (1978)
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- 22 Genus †*Emmetrocysta* Stover (1975)
 - 23 Genus †*Endoscrinium* (Klement) Vozzhennikova (1967)
 - 24 Genus †*Eodinia* Eisenack (1936)
 - 25 Genus †*Herendeenia* Wiggins (1969)
 - 26 Genus †*Kleithrasphaeridium* Davey (1974)
 - 27 Genus †*Lanterna* Dodekova (1969)
 - 28 Genus †*Leptodinium** Klement (1960)
 - 29 Genus †*Limbodinium* Riding (1987)
 - 30 Genus †*Lithodinia* Eisenack (1935)
 - 31 Genus †*Lophocysta* Manum (1979)
 - 32 Genus †*Meiourogonya* Sarjeant (1966)
 - 33 Genus †*Occisucysta* Gitmez (1970)
 - 34 Genus †*Oligosphaeridium* Davey & Williams (1966)
 - 35 Genus †*Omatia* Cookson & Eisenack (1958)
 - 36 Genus †*Rhynchodiniopsis* Deflandre (1935)
 - 37 Genus †*Rigaudella* Below (1982)
 - 38 Genus †*Rotosphaeropsis* Davey (1988)
 - 39 Genus †*Sirmiodinium* Alberti (1961)
 - 40 Genus †*Systematophora* Klement (1960)
 - 41 Genus †*Tehamadinium* Jan du Chêne, Becheler, Helenes & Masure (1986)
 - 67 Subfamily †*Cribroperidinioidae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 01 ?Genus †*Aldorfia* Stover & Evitt (1978)
 - 02 ?Genus †*Disphaerogena* Wetzel (1933)
 - 03 ?Genus †*Kallosphaeridium* de Coninck (1969)
 - 04 ?Genus †*Millioudodinium* Stover & Evitt (1978)
 - 05 ?Genus †*Pandadinium* Courtinat (1989)
 - 06 Genus †*Achilleodinium* Eaton (1976)
 - 07 Genus †*Apteodinium* Eisenack (1958)
 - 08 Genus †*Araneosphaera* Eaton (1976)
 - 09 Genus †*Carpatella* Grigorovich (1969)
 - 10 Genus †*Conneximura* May (1980)
 - 11 Genus †*Cordosphaeridium* Eisenack (1963)
 - 12 Genus †*Cribroperidinium** Neale & Sarjeant (1962)
 - 13 Genus †*Cryptarchaeodinium* Deflandre (1940)
 - 14 Genus †*Damassadinium* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 15 Genus †*Diphyes* Cookson (1965)
 - 16 Genus †*Epitricysta* Stover & Helby (1987)
 - 17 Genus †*Florentinia* Davey & Verdier (1973)
 - 18 Genus †*Hapsocysta* Davey (1979)
 - 19 Genus †*Hystrichokolpoma* Klumpp (1953)
 - 20 Genus †*Ifecysta* Jan du Chêne & Adediran (1985)
 - 21 Genus †*Kenleyia* Cookson & Eisenack (1965)
 - 22 Genus †*Korystocysta* Woollam (1983)
 - 23 Genus †*Meristaulax* Sarjeant (1984)
 - 24 Genus †*Muratodinium* Drugg (1970)
 - 25 Genus †*Samlandia* Eisenack (1954)
 - 26 Genus †*Silicisphaera* Davey & Verdier (1976)
 - 27 Genus †*Spongodinium* Deflandre (1936)
 - 28 Genus †*Stoveracysta* Clowes (1985)
 - 29 Genus †*Subathua* Khanna & Singh (1980)
 - 30 Genus †*Thalassiphora* Eisenack & Gocht (1960)
 - 31 Genus †*Turbiosphaera* Archangelsky (1969)
 - 32 Genus †*Wigginsiella* Lucas-Clark (1987)
 - 68 Subfamily †*Gonyaulacoideae** Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 01 ?Genus †*Avellodinium* Duxbury (1977)
 - 02 ?Genus †*Cannosphaeropsis* Wetzel (1933)
 - 03 ?Genus †*Catastomocystis* C. Singh (1983)
 - 04 ?Genus †*Ectosphaeropsis* Londeix & Jan du Chêne (1988)
 - 05 ?Genus †*Hystrichostrogylon* Agelopoulos (1964)
 - 06 ?Genus †*Okerisphaeridium* Kunz (1990)
 - 07 ?Genus †*Triblastula* Wetzel (1933)
 - 08 Genus †*Achomosphaera* Evitt (1963)
 - 09 Genus †*Ataxiodinium* Reid (1974)
 - 10 Genus †*Bitectatodinium* Wilson (1973)
 - 11 Genus †*Corrudinium* Stover & Evitt (1978)
 - 12 Genus †*Evittosphaerula* Manum (1979)
 - 13 Genus †*Exiguosphaera* Duxbury (1979)
 - 14 Genus †*Gonyaulacysta* Deflandre (1964)
 - 15 Genus †*Hystrichosphaeropsis* Deflandre (1935)
 - 16 Genus †*Impagidinium* Stover & Evitt (1978)
 - 17 Genus †*Nematosphaeropsis* Deflandre & Cookson (1955)
 - 18 Genus †*Pentadinium* Gerlach (1961)
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- 19 Genus †*Prionodinium* Leffingwell & Morgan (1977)
 - 20 Genus †*Psaligonyaulax* Sarjeant (1966)
 - 21 Genus †*Pterodinium* Eisenack (1958)
 - 22 Genus †*Rottnestia* Cookson & Eisenack (1961)
 - 23 Genus †*Spiniferites* Mantell (1850)
 - 24 Genus †*Tectatodinium* Wall (1967)
 - 25 Genus †*Trabeculidium* Duxbury (1980)
 - 26 Genus †*Tubotuberella* Vozzhennikova (1967)
 - 27 Genus †*Unipontidinium* Wrenn (1988)
 - 28 Genus *Gonyaulax** Diesing (1866)
 - 29 Genus *Spiraulax* Kof. (1911)
 - 89 Family **Pyrocystaceae** (F. Schütt) Lemmerm. (1899)
 - 1.1 Genus *Fragilidium* Balech ex A.R. Loeb. (1965)
 - 1.2 Genus *Pyrophacus* F. Stein (1883)
 - 2 Genus *Pyrocystis** J. Murray ex Haeckel (1890)
 - 90 Family "**Family of Amylax**" F. Gómez (2012)
 - 1 Genus *Amylax** Meunier (1910)
 - 2 Genus *Lingulodinium* D. Wall (1967)
 - 31 Order **Peridinales*** Haeckel (1894)
 - 01 Species *Gloeodinium marinum* Bouq. (1971), incertae sedis
 - 02 Genus *Adenoides* Balech (1956), incertae sedis
 - 03 Genus *Archaeosphaerodiniopsis* Rampi (1943), incertae sedis
 - 04 Genus *Bysmatrum* M.A. Faust & Steid. (1998), incertae sedis
 - 05 Genus *Peridiniella* Kof. & J.R. Michener (1911), incertae sedis
 - 06.1 Genus *Planodinium* R.D. Saunders & J.D. Dodge (1984), incertae sedis
 - 06.2 Genus *Sabulodinium* R.D. Saunders & J.D. Dodge (1984), incertae sedis
 - 07 Genus *Pseudothecadinium* Hoppenrath & M.S. Selina (2006), incertae sedis
 - 08 Genus *Thaurilens* Pavillard (1917), incertae sedis
 - 09 Genus *Thecadiniopsis* Croome, Hallegr. & P.A. Tyler (1987), incertae sedis
 - 10 Genus *Vulcanodinium* Nézan & Chomérat (2011), incertae sedis
 - 11.1 Genus †*Bellatodinium* Yu et al. (1981), incertae sedis
 - 11.2 Genus †*Octodinium* Wrenn & Hart (1988), incertae sedis
 - 11.3 Genus †*Umbodinium* Bint (1983), incertae sedis
 - 11.4 Genus *Cabra* Sh. Murray & D.J. Patterson (2004), incertae sedis
 - 11.5 Genus *Rhinodinium* Sh. Murray, Hoppenrath, S. Yoshimatsu, S. Toriumi & J. Larsen (2006), incertae sedis
 - 12 Family **Peridiniaceae*** Ehrenb. (1831)
 - 01 Genus †*Maduradinium* Cookson & Eisenack (1970), incertae sedis
 - 02 Genus †*Morkallacysta* Harris (1974), incertae sedis
 - 03 Genus †*Muiradinium* Harland & Sarjeant (1970), incertae sedis
 - 04 Genus †*Talimudinium* Mao & Norris (1988), incertae sedis
 - 05 Genus †*Zhongyuandinium* Zhu, He & Jin (1989), incertae sedis
 - 06 Subfamily †**Palaeoperidinioideae** Bujak & Davies (1983)
 - 01 ?Genus †*Diconodinium* Eisenack & Cookson (1960)
 - 02 ?Genus †*Indosphaera* Kumar (1986)
 - 03 ?Genus †*Phthanoperidinium* Drugg & Loeb. (1967)
 - 04 Genus †*Chichaouadinium* Below (1981)
 - 05 Genus †*Colonsaydinium* Hunt (1985)
 - 06 Genus †*Dioxya* Cookson & Eisenack (1958)
 - 07 Genus †*Geiselodinium* Krutzsch (1962)
 - 08 Genus †*Gingindinium* Cookson & Eisenack (1960)
 - 09 Genus †*Jinhudinium* Qian, Chen & He (1986)
 - 10 Genus †*Laciniadinium* McIntyre (1975)
 - 11 Genus †*Luxadinium* Brideaux & McIntyre (1975)
 - 12 Genus †*Palaeohystrichophora* Deflandre (1935)
 - 13 Genus †*Palaeoperidinium** Deflandre (1934)
 - 14 Genus †*Saepodinium* Harris (1974)
 - 15 Genus †*Soaniella* Vozzhennikova (1967)
 - 16 Genus †*Subtilisphaera* Jain & Millepied (1973)
 - 17 Genus †*Teneridinium* Krutzsch (1962)
 - 18 Genus †*Vectidinium* Liengjarern, Costa & Downie (1980)
 - 19 Genus †*Williamsidinium* Lentin (1983)
 - 07 Subfamily †**Deflandreoidae** Bujak & Davies (1983)
 - 01 ?Genus †*Evittodinium* Deflandre (1964)
 - 02 ?Genus †*Pyxidiella* Cookson & Eisenack (1958)
 - 03 ?Genus †*Sumatradinium* Lentin & Williams (1976)
 - 04 ?Genus †*Xuidinium* Mao & Norris (1988)
 - 05 Genus †*Abratopdinium* Mao & Mohr (1992)
 - 06 Genus †*Alterbidinium* Lentin & Williams (1985)
 - 07 Genus †*Amphidiadema* Cookson & Eisenack (1960)
 - 08 Genus †*Andalusiella* Riegel (1974)
 - 09 Genus †*Arvalidinium* Lentin & Vozzhennikova (1990)
 - 10 Genus †*Bulbodinium* Wetzel (1960)
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- 11 Genus †*Cerodinium* Vozzhennikova (1963)
 - 12 Genus †*Chatangiella* Vozzhennikova (1967)
 - 13 Genus †*Deflandrea** Eisenack (1938)
 - 14 Genus †*Eucladinium* Stover & Evitt (1978)
 - 15 Genus †*Eurydinium* Stover & Evitt (1978)
 - 16 Genus †*Gippslandia* Stover & Williams (1987)
 - 17 Genus †*Godavariella* Mehrotra & Sarjeant (1987)
 - 18 Genus †*Hexagonifera* Cookson & Eisenack (1961)
 - 19 Genus †*Isabelidinium* Lentin & Williams (1977)
 - 20 Genus †*Lentinia* Bujak (1980)
 - 21 Genus †*Manumiella* Bujak & Davies (1983)
 - 22 Genus †*Nelsoniella* Cookson & Eisenack (1960)
 - 23 Genus †*Palaeocystodinium* Alberti (1961)
 - 24 Genus †*Pierceites* Habib & Drugg (1987)
 - 25 Genus †*Planoperidinium* de Coninck (1986)
 - 26 Genus †*Satyrodinium* Lentin & Manum (1986)
 - 27 Genus †*Senegalinium* Jain & Millepied (1973)
 - 28 Genus †*Smolenskiella* Vozzhennikova (1967)
 - 29 Genus †*Spinidinium* Cookson & Eisenack (1962)
 - 30 Genus †*Svalbardella* Manum (1960)
 - 31 Genus †*Trithyrodinium* Drugg (1967)
 - 32 Genus †*Trivalvadinium* Islam (1983)
 - 33 Genus †*Uvatodinium* Vozzhennikova (1963)
 - 34 Genus †*Vozzhennikovia* Lentin & G.L. Williams (1976)
 - 35 Genus †*Xenikoon* Cookson & Eisenack (1960)
 - 08 Subfamily †*Ovoidinioideae* Bujak & Davies (1983)
 - 01 ?Genus †*Corculodinium* Batten & Lister (1988)
 - 02 ?Genus †*Craspedodinium* Cookson & Eisenack (1974)
 - 03 ?Genus †*Paraperidinium* Jin, He & Zhu (1989)
 - 04 ?Genus †*Ripea* Batten (1985)
 - 05 Genus †*Ascodinium* Cookson & Eisenack (1960)
 - 06 Genus †*Bohaidina* Jiabo (1978)
 - 07 Genus †*Bosedinia* He (1984)
 - 08 Genus †*Cepadinium* Duxbury (1983)
 - 09 Genus †*Epelidosphaeridia* Davey (1969)
 - 10 Genus †*Holmwoodinium* Batten (1985)
 - 11 Genus †*Huanghedinium* Zhu, He & Jin (1989)
 - 12 Genus †*Leberidocysta* Stover & Evitt (1978)
 - 13 Genus †*Ovoidinium** Davey (1970)
 - 14 Genus †*Parabohaidina* Jiabo (1978)
 - 15 Genus †*Prominangularia* Jiabo (1978)
 - 09 Subfamily †*Wetzeliielloideae* Bujak & Davies (1983)
 - 1 Genus †*Apectodinium* (Costa & Downie) Lentin & Williams (1977)
 - 2 Genus †*Charlesdowniea* Lentin & Vozzhennikova (1989)
 - 3 Genus †*Dracodinium* Gocht (1955)
 - 4 Genus †*Kisselovia* Vozzhennikova (1963)
 - 5 Genus †*Rhombodinium* Gocht (1955)
 - 6 Genus †*Wetzeliiella** Eisenack (1938)
 - 7 Genus †*Wilsonidium* Lentin & G.L. Williams (1976)
 - 10 Subfamily †*Lithoperidinioideae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 ?Genus †*Jusella* Vozzhennikova (1963)
 - 2 Genus †*Lithoperidinium** Deflandre (1933)
 - 11 Subfamily *Peridinioideae** Bergh (1881)
 - 1 Genus *Peridinium** Ehrenb. (1830)
 - 2 Genus *Bagredinium* K.P. Da, F. Zongo, G. Mascarell & Couté (2004)
 - 13 Family *Heterocapsaceae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 01 Genus †*Andreedinium* Below (1987)
 - 02 Genus †*Angustidinium* Goodman & Evitt (1981)
 - 03 Genus †*Facetodinium* Bjaerke (1980)
 - 04 Genus †*Liasidium* Drugg (1978)
 - 05 Genus †*Moesiodinium* Antonescu (1975)
 - 06 Genus †*Ovalicysta* Bjaerke (1980)
 - 07 Genus †*Parvocysta* Bjaerke (1980)
 - 08 Genus †*Reutlingia* Drugg (1978)
 - 09 Genus †*Susadinium* Dörhöfer & Davies (1980)
 - 10 Genus *Heterocapsa** F. Stein (1883)
 - 14 Family *Podolampadaceae* Er. Lindem. (1928)
 - 1.1 Genus *Blepharocysta* Ehrenb. (1873)
 - 1.2 Genus *Mysticella* Carbonell-Moore (1994)
 - 2 Genus *Gaarderiella* Carbonell-Moore (2010)
 - 3 Genus *Heterobractum* Carbonell-Moore, 1994
 - 4 Genus *Lessardia* J.F. Saldarriaga & F.J.R. Taylor (2003)
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- 5 Genus *Lissodinium* Matzen. (1933)
 - 6 Genus *Podolampas** F. Stein (1883)
 - 7 Genus *Roscoffia* Balech (1956)
 - 15 Family *Amphidiniopsidaceae* J.D. Dodge (1984)
 - 1 Genus "*Genus of Thecadinium dragescoi*" F. Gómez (2012)
 - 2 Genus *Amphidiniopsis** Wolosz. (1929)
 - 3 Genus *Archaeoperidinium* Jørg. (1912)
 - 4 Genus *Herdmania* J.D. Dodge (1981)
 - 16.1 Family *Protoperidiniaceae* Balech (1988)
 - 01 Genus †*Brigantedinium* Reid (1977)
 - 02 Genus †*Capillicysta* Matsuoka & Bujak (1987)
 - 03 Genus †*Cristadinium* Head, Norris & Mudie (1989)
 - 04 Genus †*Deflagymnium* Olaru (1978)
 - 05 Genus †*Gerlachidium* Benedek & Sarjeant (1981)
 - 06 Genus †*Leipokatium* Bradford (1975)
 - 07 Genus †*Lejeunecysta* Artzner & Dörhöfer (1978)
 - 08 Genus †*Multispinula* Bradford (1975)
 - 09 Genus †*Omanodinium* Bradford (1975)
 - 10 Genus †*Phelodinium* Stover & Evitt (1978)
 - 11 Genus †*Pseudoalterbia* Mao & Norris (1988)
 - 12 Genus †*Quinquecuspis* Harland (1977)
 - 13 Genus †*Selenopemphix* Benedek (1972)
 - 14 Genus †*Stelladinium* Bradford (1975)
 - 15 Genus †*Trinovantedinium* Reid (1977)
 - 16 Genus †*Votadinium* Reid (1977)
 - 17 Genus †*Xandarodinium* Reid (1977)
 - 18 Genus *Protoperidinium** Bergh (1881)
 - 16.2 Family *Diplopsaliaceae* Matsuoka (1988)
 - 01 Genus †*Dubridinium* Reid (1977)
 - 02 Genus "*Genus of Protoperidinium depressum*" F. Gómez (2012)
 - 03 Genus *Boreadinium* J.D. Dodge & H.B. Hermes (1981)
 - 04 Genus *Diplopelta* F. Stein ex Jørg. (1912)
 - 05 Genus *Diplopsalis** Bergh (1882)
 - 06 Genus *Diplopsalopsis* Meunier (1910)
 - 07 Genus *Dissodium* T.H. Abé (1941)
 - 08 Genus *Gotoius* T.H. Abé ex Matsuoka (1988)
 - 09 Genus *Lebouraia* T.H. Abé ex Sournia (1986)
 - 10 Genus *Oblea* Balech ex Loeb. & A.R. Loeb. (1966)
 - 11 Genus *Preperidinium* L. Mangin (1913)
 - 17 Family *Heterodiniaceae* Er. Lindem. (1928)
 - 1 Genus *Dolichodinium* Kof. & A.M. Adamson (1933)
 - 2 Genus *Heterodinium** Kof. (1906)
 - 18.1 Family *Thoracosphaeraceae* J. Schiller (1930)
 - 01 Genus †*Bitorus* Keupp (1992)
 - 02.1 Genus †*Cadosina* J. Wanner (1940)
 - 02.2 Genus †*Carpistomiosphaera* W. Nowak (1968)
 - 02.3 Genus †*Committosphaera* ehánek (1985)
 - 02.4 Genus †*Crustocadosina* ehánek (1985)
 - 02.5 Genus †*Hemistomiosphaera* W. Nowak (1968)
 - 03 Genus †*Cadosinella* J. Vogler (1941)
 - 04 Genus †*Cadosinopsis* Scheibner (1967)
 - 05 Genus †*Calciconus* Streng, Banasová, D. Reháková & H. Willems (2009)
 - 06 Genus †*Calciperidinium* Versteegh (1993)
 - 07 Genus †*Calcisphaerula* Bonet (1956)
 - 08 Genus †*Calcistheca* Trejo (1983)
 - 09 Genus †*Carinasphaera* Kohring (1993)
 - 10 Genus †*Centosphaera* Wind & S.W. Wise (1977)
 - 11 Genus †*Colomisphaera* W. Nowak (1968)
 - 12 Genus †*Congruentia* Kohring (1991)
 - 13 Genus †*Cylindratus* Banasová, Kopáková & D. Reháková ex Streng, Banasová, D. Reháková & H. Willems (2009)
 - 14 Genus †*Cylindrodinellum* Zügel (1994)
 - 15 Genus †*Follisdinellum* Versteegh (1993)
 - 16 Genus †*Fuettererella* Kohring (1993)
 - 17 Genus †*Inocardion* B.A. Masters & R.W. Scott (1978)
 - 18 Genus †*Melodomuncula* Versteegh (1993)
 - 19 Genus †*Operculodinella* Kienel (1994)
 - 20 Genus †*Orthotabulata* Kienel (1994)
 - 21 Genus †*Pseudopithonella* Versteegh (1993)
 - 22 Genus †*Retesphaera* Hildebrand-Habel, H. Willems & Versteegh (1999)
 - 23 Genus †*Ruegenia* H. Willems (1992)
 - 24 Genus †*Saumuria* Zügel (1994)
 - 25.1 Genus †*Stomiosphaera* J. Wanner (1940)
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- 25.2 Genus †*Parastomiosphaera* W. Nowak (1968)
26 Genus †*Stomiosphaerina* W. Nowak (1974)
27 Genus †*Vertebrellum* Zügel (1994)
28 Genus *Lebessphaera* S. Meier, Janofske & H. Willems (2002)
29 Genus *Pentadinellum* Keupp (1991)
30 Genus *Rhabdothorax* Kampfner ex Gaarder & Heimdal (1973)
31 Genus *Wallidinellum* Keupp (1991)
32 Genus "*Theleodinium*" Craveiro, Pandeirada, Daugbjerg, Moestrup & Calado (ined.)
33.01 Genus †*Calcicarpinum* Deflandre (1948)
33.02 Genus †*Cubodinellum* Keupp (1987)
33.03 Genus †*Dimorphosphaera* Keupp (1979)
33.04 Genus †*Echinodinella* Keupp (1980)
33.05 Genus †*Heptasphaera* Keupp (1979)
33.06 Genus †*Keuppisphaera* Lentin & G.L. Williams (1989)
33.07 Genus †*Nephrocinella* Keupp (1981)
33.08 Genus †*Orthocarinellum* Keupp (1987)
33.09 Genus †*Sliteria* Krasheninnikov & Basov (1983)
33.10 Genus †*Alasphaera* Keupp (1979)
33.11.1 Genus †*Bicarinellum* Deflandre (1948)
33.11.2 Genus †*Posoniella* Streng, Banasová, D. Reháková & H. Willems (2009)
33.12 Genus †*Calcipterellum* Deflandre (1948)
33.13 Genus †*Carinellum* Keupp (1981)
33.14 Genus †*Gonellum* Keupp (1987)
33.15.1 Genus †*Andriella* H.M. Bolli (1974)
33.15.2 Genus †*Pirumella* H.M. Bolli (1980)
33.15.3 Genus †*Orthopithonella* Keupp (1984)
33.16 Genus †*Tetramerosphaera* H. Willems (1985)
33.17.1 Genus *Calciodinellum* Deflandre (1947)
33.17.2.1 Genus †*Praecalci gonellum* Keupp & Versteegh (1989)
33.17.2.2 Genus *Calcigonellum* Deflandre (1949)
33.17.2.3 Genus †*Juergenella* Banasová, Kopáková & D. Reháková ex Streng, Banasová, D. Reháková & H. Willems (2009)
33.18.1 Genus *Duboscquodinium* Grassé (1952)
33.18.2 Genus *Scrippsiella* Balech ex A.R. Loebl. (1965)
33.19 Genus *Pernambugia* Janofske & Karwath (2000)
33.20 Genus *Tintinnophagus* Coats (2010)
34.1.1 Genus †*Cervisiella* Hildebrand-Habel, H. Willems & Versteegh (1999)
34.1.2 Genus †*Caracomia* Streng, Hildebrand-Habel & H. Willems (2002)
34.1.3 Genus *Thoracosphaera** Kampfner (1927)
34.1.4 Genus *Leonella* Janofske & Karwath (2000)
34.2 Genus *Amyloodinium* E.-M. Br. & Hovasse (1946)
34.3 Genus *Chimonodinium* Craveiro, Calado, Daugbjerg, Gert Hansen & Moestrup (2011)
34.4 Genus *Luciella* P.L. Mason, Jeong, Litaker, Reece & Steid. (2007)
34.5 Genus *Paulsenella* Chatton (1920)
34.6.1 Genus *Pfiesteria* Steid. & J.M. Burk. (1996)
34.6.2 Genus *Pseudopfiesteria* Litaker, Steid., P.L. Mason, Shields & P.A. Tester (2005)
34.6.3 Genus *Cryptoperidiniopsis* Steid., Landsberg, P.L. Mason, Vogelbein, P.A. Tester & Litaker (2006)
34.7 Genus "*Stoeckeria*" H.J. Jeong, Jae S. Kim, J.Y. Park, Jong H. Kim, Sang Kim, I. Lee, Seung H. Lee, J.H. Ha & W.H. Yih (2005)
34.8 Genus *Tyrannodinium* Calado, Craveiro, Daugbjerg & Moestrup (2009)
35.1 Genus *Ensiculifera* Balech (1967)
35.2 Genus *Pentapharsodinium* Indel. & A.R. Loebl. (1986)
36 Genus †"*Geulhemmerbergia*" H. Willems (1996)
x Genus †*Carnicalyxia* Janofske (1990)
x Genus †*Oligostegina* Kaufmann, 1865
18.2 Family *Oodiniaceae* Chatton (1920)
01 Genus *Cachonella* Rose & Cachon (1952)
02 Genus *Chalubinskia* Wolosz. (1916)
03 Genus *Crepidodinium* J. Lom & A.R. Lawler (1981)
04 Genus *Cystodinedria* Pascher (1944)
05 Genus *Haidadinium* J. Buckland-Nicks, T.E. Reimchen & D.J. Garbary (1997)
06 Genus *Oodinioides* Reichenbach-Klinke (1970)
07 Genus *Oodinium** Chatton (1912)
08 Genus *Parvodinium* Carty (2008)
09 Genus *Protoodinium* Hovasse (1935)
10 Genus *Staszicella* Wolosz. (1916)
11 Genus *Stylodinium* G.A. Klebs (1912)
18.3 Family *Glenodiniaceae* Wiley & Hickson (1909)
01 Genus *Dinosphaera* Kof. & J.R. Michener (1912)
02 Genus *Glochidinium* Boltovskoy (1999)
03 Genus *Gloeodinium* G.A. Klebs (1912)
04 Genus *Hemidinium* F. Stein (1878)
05.1 Genus *Glenodiniopsis* Wolosz. (1916)
05.2 Genus *Glenodinium** Ehrenb. (1836)
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- 06 Genus *Kansodinium* Carty & E.R. Cox (1986)
 - 07 Genus *Lophodinium* Lemmerm. (1910)
 - 08 Genus *Nephrodinium* Meunier (1910)
 - 09 Genus *Palatinus* Craveiro, Calado, Daugbjerg & Moestrup (2009)
 - 10 Genus *Peridiniopsis* Lemmerm. (1904)
 - 11 Genus *Thompsodinium* Bourr. (1970)
 - 19.1 Family *Oxytoxaceae* Er. Lindem. (1928)
 - 1 Genus *Oxytoxum** F. Stein (1883)
 - 19.2 Genus *Corythodinium* Loeb. & A.R. Loeb. (1966) [higher rank(s) implied]
 - 20 Family *Amphidomataceae* Sournia (1984)
 - 1 Genus *Amphidoma** F. Stein (1883)
 - 21 Family *Cladopyxidaceae* F. Stein (1883)
 - 01 ?Genus †*Beyrichodinium* Below (1990)
 - 02 ?Genus †*Gillinia* Cookson & Eisenack (1960)
 - 03 ?Genus †*Walvisia* Miles (1990)
 - 04 Genus †*Cladopyxidium* McLean (1972)
 - 05 Genus †*Druggidium* Habib (1973)
 - 06 Genus †*Fibradinium* Morgenroth (1968)
 - 07 Genus †*Freboldinium* Below (1990)
 - 08 Genus †*Glyphanodinium* Drugg (1964)
 - 09 Genus †*Histiocysta* Davey (1969)
 - 10 Genus †*Microdinium* Cookson & Eisenack (1960)
 - 11 Genus †*Mikrocysta* Bjaerke (1980)
 - 12 Genus †*Praussia* Williams, Lentin & Fensome (1998)
 - 13 Genus †*Subtilidinium* Morgenroth (1968)
 - 14 Genus †*Wervekodinium* Below (1990)
 - 15 Genus *Cladopyxis** F. Stein (1883)
 - 16 Genus *Micracanthodinium* Deflandre (1937)
 - 17 Genus *Palaeophalacroma* J. Schiller (1928)
 - 22 Family *Zooxanthellaceae* Hovasse & Teissier (1923)
 - 1 Genus *Zooxanthella** K. Brandt (1881)
 - 2 Genus *Zoorhabdella* Rhumbler (1909)
 - 23 Family "*Family of Amphidoma caudata*" F. Gómez (2012)
 - 1 Species *Amphidoma caudata** Halldal (1953) [higher rank(s) implied]
 - 2 Genus *Azadinium* Elbr. & Tillmann (2009)
 - 15.1 Family *Tovelliaceae* Moestrup, K.C.R. Lindberg & Daugbjerg (2005), incertae sedis
 - 1 Genus *Bernardinium* Chodat (1924)
 - 2 Genus *Esoptrodinium* Javorn. (1997)
 - 3 Genus *Jadwigia* Moestrup, K.C.R. Lindberg & Daugbjerg (2005)
 - 4.1 Genus *Katodinium* Fott (1957)
 - 4.2 Genus *Opisthoaulax* Calado (2011)
 - 5 Genus *Tovellia** Moestrup, K.C.R. Lindberg & Daugbjerg (2005)
 - 15.2 Family *Woloszynskiaceae* Bourr. ex Starmach (1974), incertae sedis
 - 1 Genus *Woloszynskia** R.H. Thoms. (1951)
 - 16 Family *Apodiniaceae* Chatton (1920), incertae sedis
 - 1 Genus *Apodinium** Chatton (1907)
 - 2 Genus *Parapodinium* Chatton (1920)
 - 17 Order *Actiniscales* Sournia (1984)
 - 1 Family *Actiniscaceae** Kütz. (1844)
 - 1 Genus †*Carduifolia* Hovasse (1932)
 - 2 Genus †*Cinctactiniscus* Dumitrica (1973)
 - 3 Genus †*Foliactiniscus* Dumitrica (1973)
 - 4 Genus *Actiniscus** (Ehrenb.) Ehrenb. (1843)
 - 2 Family *Dicroerismataceae* Fensome et al. (1993)
 - 1 Genus *Dicroerisma** F.J.R. Taylor & Cattell (1969)
 - 18 Order *Amphilothes* Er. Lindem. (1928)
 - 1 Family *Amphilotheaceae** Kof. ex Poche (1913)
 - 1 Genus *Achradina* Lohmann (1902)
 - 2 Genus *Amphilothus** Kof. ex Poche (1913)
 - 19 Subclass *Dinophysiphycidae** Möhn ex Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Order †*Nannoceratopsiales* Piel & Evitt (1980)
 - 1 Family †*Nannoceratopsiaceae** Gocht (1970)
 - 1 Genus †*Nannoceratopsis** Deflandre (1939)
 - 2 Order *Dinophysales** Er. Lindem. (1928)
 - 1 Genus *Pseudophalacroma* Jørg. ex Lebour (1925) [higher rank(s) implied]
 - 2 Genus *Sinophysis* D.S. Nie & Chia C. Wang (1944) [higher rank(s) implied]
 - 3 Family *Amphisoleniaceae* Er. Lindem. (1928)
 - 1 Genus *Amphisolenia** F. Stein (1883)
 - 2 Genus *Triposolenia* Kof. (1906)
 - 4 Family *Oxyphysaceae* Sournia (1984)
 - 1 Genus *Dinofurcula* Kof. & Skogsb. (1928)
 - 2.1 Genus *Latifascia* Loeb. & A.R. Loeb. (1966)
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- Class *Dinophyceae* -

- 2.2 Genus *Proheteroschisma* L.S. Tai & Skogsb. (1934)
- 3 Genus *Phalacroma** F. Stein (1883)
- 5 Family *Dinophysaceae** F. Stein (1883)
 - 1 ?Genus †*Palaeodiniophysis* Vozzhennikova & Sheshegova (1989)
 - 2 ?Genus †*Ternia* Helby & Stover (1987)
 - 3 Genus *Citharistes* F. Stein (1883)
 - 4 Genus *Dinophysis** Ehrenb. (1839)
 - 5.1 Genus *Histioneis* F. Stein (1883)
 - 5.2 Genus *Parahistioneis* Kof. & Skogsb. (1928)
 - 6 Genus *Histiophysis* Kof. & Skogsb. (1928)
 - 7 Genus *Metadinophysis* D.S. Nie & Chia C. Wang (1941)
 - 8 Genus *Metaphalacroma* L.S. Tai & Skogsb. (1934)
 - 9 Genus *Ornithocercus* F. Stein (1883)
- 20 Subclass *Prorocentrophycidae* Fensome, F.J.R. Taylor, G. Norris, Sarjeant, Wharton & G.L. Williams (1993)
 - 1 Order *Prorocentrales** Lemmerm. (1910)
 - 1 Genus "*Genus of Prorocentrum panamense*" F. Gómez (2012) [higher rank(s) implied]
 - 2 Genus *Plagiodinium* M.A. Faust & Balech (1993) [higher rank(s) implied]
 - 3 Family *Haplodiniaceae* Er. Lindem. (1928)
 - 1 Genus *Haplodinium** G.A. Klebs (1912)
 - 4 Family *Prorocentraceae** F. Stein (1883)
 - 1 Genus *Mesoporos* Lillick (1937)
 - 3.1 Genus *Prorocentrum** Ehrenb. (1834)
 - 3.2 Genus *Exuviaella* Cienk. (1881)
 - 21 Order *Blastodinales* Chatton (1906)
 - 1 Family *Blastodiniaceae** Cavers (1913)
 - 1 Genus *Blastodinium** Chatton (1906)

Citation: Brands, S.J. (ed.), 2017. Classification of Class *Dinophyceae* (protists) down to Genus. In Systema Naturae 2000. *The Taxonomicon*. Universal Taxonomic Services, Zwaag, The Netherlands, 18 Apr 2017. <<http://taxonomicon.taxonomy.nl/TaxonTree.aspx?src=0&id=3212>>

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