**Taxonomic clarification of the dinophyte *Rhabdosphaera*
erinaceus KAMPTNER, $\equiv$ *Scrippsiella erinaceus* comb. nov.
(Thoracosphaeraceae)**

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SUPPLEMENTARY MATERIAL

Table S2: Voucher list. For dinophytes, all names are given under the rules of the ICBN, the author standard forms follow Brummitt and Powell (1992).

Species name with author	Strain No.	Locality	GenBankNo(s)
† <i>Caldicarpinum bivalvum</i> G.Versteegh [= “ <i>Pentapharsodinium</i> ” <i>tyrrhenicum</i> (Balech) Montresor, Zingone & D.Marino]	GeoB 229	Mediterranean Sea, Ionian Sea, off Italy: Gulf of Taranto (40°07’N 17°19’E)	HQ845329
† <i>Calcigonellum infula</i> Deflandre	GeoB 110	Mediterranean Sea, Balearic Sea, off Spain (41°21’N 3°01’W)	AY499523, DQ167852
† <i>Calciodinellum albatrosianum</i> (Kamptner) Janofske & Karwath	GeoB*31	eastern North Atlantic, off Republic of Cape Verde (11°29’N 21°01’W)	AY499522, JN982386
† <i>Calciodinellum albatrosianum</i> (Kamptner) Janofske & Karwath	M34-*26/4	western North Atlantic, off Barbados (12°16’N 58°20’W)	AY676145, DQ167853
“ <i>Calciodinellum</i> ” <i>levantinum</i> S.Meier, Janofske & H.Willems	GeoB 122	Equatorial Atlantic, off Togo (1°55’N 3°13’E)	AY676146, DQ167854
† <i>Calciodinellum</i> aff. <i>operosum</i> Deflandre	GeoB 34	Atlantic (8°30’N 32°27’W)	HQ729486, KJ189479
† <i>Calciodinellum operosum</i> Deflandre	SZN74	Mediterranean Sea, Gulf of Naples (40°43’N 14°10’W)	KF751922
“ <i>Calciodinellum</i> ” spec.	GeoB*205	Mediterranean Sea, Aegean Sea, off Turkey (36°47’N 26°21’E)	KJ189486
“ <i>Calciodinellum</i> ” spec.	tub*2	eastern South Pacific, off Chile (28°15’S 78°00’W)	AY499532, DQ167855
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBDE1	Australia: Tasmania, Derwent River, Sullivans Cove	DQ991372

<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBDE2	Australia: Tasmania, Derwent River, Sullivans Cove	DQ991373
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBDE10	Australia: Tasmania, Derwent River, Sandy Bay	DQ991374
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBDE14	Australia: Tasmania, Derwent River, Sandy Bay	DQ991375
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBHU1	Australia: Tasmania, Huon River	DQ991376
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBHU2	Australia: Tasmania, Huon River	DQ991377
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBSA4	off Australia: South Australia, Port Lincoln	DQ991378
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBWA11	Australia: Western Australia, Brunswick River	DQ991379
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	CBWA12	Australia: Western Australia, Brunswick River	DQ991380
<i>Cryptoperidiniopsis brodyi</i> Steid., Landsberg, P.L.Mason, Vogelbein, P.A.Tester & Litaker	H/V14 (≡ VIMS V14)	USA–NC: Neuse River; USA–VA: Great Wicomico River	AY245690
<i>Cryptoperidiniopsis</i> spec.	F525Jul02	USA–FL: St. John's River	AY590480
<i>Cryptoperidiniopsis</i> spec.	Folly C5	USA–SC: Folly Beach	AY590481
<i>Cryptoperidiniopsis</i> spec.	NCMA1828	USA–MD: King's Creek (38°24'N, 75°51'W)	AY590476, AY456119
<i>Cryptoperidiniopsis</i> spec.	NOAA Beach	USA–NC: Piver's Island	AY590486
<i>Cryptoperidiniopsis</i> spec. (isolated from gut of mullet)	PLO21	USA–FL: Bird Island Archipelago, St. Lucie River	AY245691

<i>Duboscquodinium collinii</i> Grassé [isolated from <i>Eutintinnus fraknoii</i> (Daday, 1887)]	VSM11	off France: Bay of Villefranche-sur-Mer	HM483399
<i>Duboscquodinium collinii</i> Grassé [isolated from <i>Eutintinnus fraknoii</i> (Daday, 1887)]	VSM12	off France: Bay of Villefranche-sur-Mer	HM483398
<i>Enciculifera loeblichii</i> El.R.Cox & H.J.Arn.	GeoB*220	eastern South Atlantic, off Namibia (30°30'S 13°22'E)	HQ845328
<i>Luciella masanensis</i> P.L.Mason, H.J.Jeong, Litaker, Reece & Steid.	HR1NovC5	USA-FL: St. Lucie River	AY590482
<i>Luciella masanensis</i> P.L.Mason, H.J.Jeong, Litaker, Reece & Steid.	NC Lucy-V27	USA-NC: New River	AY590485
<i>Luciella masanensis</i> P.L.Mason, H.J.Jeong, Litaker, Reece & Steid.	VIMS1041	USA-VA: James River	EU048552
<i>Luciella masanensis</i> P.L.Mason, H.J.Jeong, Litaker, Reece & Steid.	VIMS1050	USA-VA: James River	EU048553
<i>Luciella</i> spec.	Florida Lucy	USA-FL: Indian River System	AY245689
<i>Luciella</i> spec.	HR1SSeptA5	USA-FL: St. Lucie River	AY590483
<i>Luciella</i> spec.	NCMA1835	USA-VA: Pokomoke Sound, station DHA (37°58'N, 75°42'W)	AY590477, AY456120
<i>Luciella</i> spec.	NCMA1838	USA-NC: Neuse River	AY590478
<i>Pentapharsodinium dalei</i> Indel. & A.R.Loeb.	SCCAP K-1100	Sweden: Koljö Fjord (58°14'N, 11°34'E)	JX262492, JX262496, JX262498
“ <i>Peridinium</i> ” <i>aciculiferum</i> Lemmerm.	PAER-1	Sweden: Lake Erken	AY970653, AY970649, AY970652
“ <i>Peridinium</i> ” <i>polonicum</i> Wołosz.	HBI:MG200823a	n.ind.	JQ639764, JQ639772, JQ639754
“ <i>Peridinium</i> ” <i>polonicum</i> Wołosz.	n.ind.	Denmark	EF205010

† <i>Pernambugia tuberosa</i> (Kamptner) Janofske & Karwath	GeoB*61 (≡ CCAP1141/1)	western South Atlantic (11°32'S 28°35'W)	JN982372
<i>Pfiesteria piscicida</i> Steid. & J.M.Burkh.	n.ind.	USA–MD: Chicamacomico River	AY112746
<i>Pfiesteria piscicida</i> Steid. & J.M.Burkh.	Noga-P	USA–NC: Pamlico River	AY245693
<i>Pfiesteria piscicida</i> Steid. & J.M.Burkh.	PPSB25	Indonesia: Surabaya (ballast water)	DQ991381
<i>Pfiesteria piscicida</i> Steid. & J.M.Burkh.	PPSB27	Indonesia: Surabaya (ballast water)	DQ991382
<i>Pfiesteria shumwayae</i> Glasgow & J.M.Burkh.	Noga-S (≡ VIMS1049)	USA–NC: Pamlico River	AY245694
† <i>Posoniella tricarineloides</i> (G.Versteegh) Streng, Banasová, Reháková & H.Willems	PTLY01	Yellow Sea, off Lianyungang (34°49'N, 119°32'E)	KC511790, KC511792, KC511794
<i>Scrippsiella bicarinata</i> Zinssmeister, S.Soehner, S.Meier & Gottschling	GeoB 411	Mediterranean Sea, off Italy (41°15'N 13°36'E)	KF751927
<i>Scrippsiella bicarinata</i> Zinssmeister, S.Soehner, S.Meier & Gottschling	GeoB*414	Mediterranean Sea, off Italy (41°15'N 13°36'E)	JN982376
<i>Scrippsiella bicarinata</i> Zinssmeister, S.Soehner, S.Meier & Gottschling (type)	GeoB 416	Mediterranean Sea, off Italy (41°15'N 13°36'E)	JN982377
<i>Scrippsiella bicarinata</i> Zinssmeister, S.Soehner, S.Meier & Gottschling	GeoB 453	Mediterranean Sea, off Greece (37°56'N 21°09'E)	JN982382
<i>Scrippsiella bicarinata</i> Zinssmeister, S.Soehner, S.Meier & Gottschling	GeoB 458	Mediterranean Sea, off Greece (37°02'N 22°06'E)	JN982381
<i>Scrippsiella donghaiensis</i> H.Gu	CS-168	eastern Indian Ocean, off Australia (33°S 138°E)	JN982374
<i>Scrippsiella donghaiensis</i> H.Gu	CS-297	eastern South Pacific, off Tasmania (43°S 148°E)	AY676151, KJ189480
<i>Scrippsiella donghaiensis</i> H.Gu	GeoB 424	western South Atlantic, off Uruguay: Gulf of Montevideo (34°47'N 53°28'W)	HQ729502, JN982387

<i>Scrippsiella donghaiensis</i> H.Gu (type)	SSDH01	East China Sea (29°00'N 122°31'E)	AY685008, AY685011
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	CCPO3	USA–VA: Norfolk, Lafayette River	HQ670227
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	CCPO4	USA–VA: Norfolk, Lafayette River	HQ670228
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	GeoB 147	South Atlantic	HQ729483, JN982393
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	GeoB 338	Mediterranean Sea, Ionian Sea, off Italy (40°00'N 17°50'E)	HQ729490, JN982398
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	GeoB 421	western South Atlantic, off Uruguay: Gulf of Montevideo (34°47'N 53°28'W)	HQ729501, JN982401
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	GeoB 430	Mediterranean Sea, Ionian Sea, off Italy (40°03'N 17°59'E)	JN982379, KJ189481
<i>Scrippsiella erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	GeoB 457	Mediterranean Sea, off Greece: Kalamata (37°01'N 22°06'E)	JQ422488
<i>Scrippsiella erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	GeoM*533	Mediterranean Sea, Adriatic Sea, off Croatia: Rovinj	KJ189477, KJ189487
<i>Scrippsiella erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling (epitype)	GeoM*534	Mediterranean Sea, Adriatic Sea, off Croatia: Rovinj	KJ189478, KJ189488
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	HH200907-1	n.ind.	JQ246506, JQ250798
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	M34-*25/5	western North Atlantic, off Guyana (11°54'N 57°49'W)	AY499531, KJ189482
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	ST-D6	China, Yangtze River	EU370962, EU370959

<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	SZN 64	Mediterranean Sea, Gulf of Naples	AF527079, AF527080, AF527081
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	SZN 69	Mediterranean Sea, Gulf of Naples	AF527082, AF527083, AF527084
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	SZN 70	Mediterranean Sea, Gulf of Naples	AF527085, AF527086, AF527087, AF527088, AF527089
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	SZN 72	Mediterranean Sea, Gulf of Naples	AF527090, AF527091
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	SZN 91	Mediterranean Sea, Gulf of Naples	AF527116, AF527117, AF527118, AF527119
<i>Scrippsiella</i> cf. <i>erinaceus</i> (Kamptner) Kretschmann, Zinßmeister & Gottschling	SZN 93	Mediterranean Sea, Gulf of Naples	AF527120, AF527121
“ <i>Scrippsiella</i> ” <i>hangoei</i> (J.Schiller) J.Larsen	SHTV1	Baltic Sea, off Finland: Tvärminne	KF751923
<i>Scrippsiella kirschiae</i> Zinssmeister, S.Soehner, S.Meier & Gottschling (type)	GeoB 408	Mediterranean Sea, off Italy (40°40’N 14°46’E)	JN982378
<i>Scrippsiella kirschiae</i> Zinssmeister, S.Soehner, S.Meier & Gottschling	GeoB 432	Mediterranean Sea, off Italy (40°40’N 14°46’E)	JN982380
<i>Scrippsiella lachrymosa</i> Lewis ex Head	GeoB 285	North Sea, off Norway (63°40’N 8°18’E)	AY788354, JN982388
<i>Scrippsiella lachrymosa</i> Lewis ex Head	GeoB 288	North Sea, off Norway (63°42’N 8°30’E)	DQ167861, DQ167862
<i>Scrippsiella precaria</i> Montresor & Zingone	CS-294	eastern Indian Ocean, off Australia (ballast water)	AY499518, DQ167863
<i>Scrippsiella ramonii</i> Montresor	GeoB 398	Mediterranean Sea, off Italy (40°40’N 14°46’E)	HQ729497, JN982390
<i>Scrippsiella rotunda</i> Lewis	GeoB 280	North Sea, off Norway (63°23’N 9°30’E)	AY788355, DQ167864
<i>Scrippsiella</i> spec.	GeoB*160	Red Sea (27°44’N 35°03’E)	AY499526, JN982402

<i>Scrippsiella</i> spec.	GeoB*161	Red Sea (27°44'N 35°03'E)	AY499527, KJ189483
<i>Scrippsiella</i> spec.	GeoB 243	eastern North Atlantic, off Madeira (32°38'N 16°50'E)	KJ189489
<i>Scrippsiella</i> spec.	GeoB 245	eastern North Atlantic, off Madeira (32°44'N 16°42'E)	KJ189490
<i>Scrippsiella</i> spec.	GeoB 283	North Sea, off Norway: Sør-Trøndelag, Snillfjord commune, Åstfjorden, Mjønø (harbour; 63°28'N 9°25'E)	HQ845330
<i>Scrippsiella</i> spec.	GeoB 335	Mediterranean Sea, Ionian Sea, off Italy (39°51'N 17°55'E)	KF751926
<i>Scrippsiella spinifera</i> Honsell & M.Cabrini	NIES 684	Japan: Seto Inland Sea (34°25'N 134°00'E)	AY499520, JN982392
<i>Scrippsiella sweeneyae</i> Balech	CCCM280	n.ind.	HQ845331
<i>Scrippsiella trifida</i> Lewis ex Head	GeoB*109	western Mediterranean Sea, off France (42°26'N 3°41'E)	HQ729484, KJ189484
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	AC24-3, RCC 3006	western Mediterranean Sea, off France (43°41'N, 7°18'E)	JX661036, JX661021
<i>Scrippsiella trochoidea</i> (F.Stein) A.R.Loeb. (epitype)	GeoB*185 (≡ CCAC3450, CCAP1134/13)	Baltic Sea, off Germany (54°26'N 10°13'E)	HQ729493
<i>Scrippsiella trochoidea</i> (F.Stein) A.R.Loeb.	CCAP1134/9	UK–Scotland: Loch Creran	FR865630
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB 188	western Mediterranean Sea, off France (42°28'N 3°07'E)	AY499524, DQ167865
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB*200	western North Atlantic (25°03'N 58°04'E)	AY676157, KJ189485
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB*201	Mediterranean Sea, Aegean Sea, off Turkey (36°14'N 26°03'E)	KF751924

<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	GeoB 204	eastern Mediterranean Sea	KJ189491
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	GeoB 219	eastern South Atlantic, off Namibia (29°51'S 13°25'E)	AY676154, JN982395
<i>Scrippsiella trochoidea</i> (F.Stein) A.R.Loeb.	GeoB*238	North Sea, off Norway: Oslo-Fjord (59°47'N 10°45'E)	AY676161, AY628427
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	GeoB 246	Mediterranean Sea, Balearic Sea, off Spain	KJ189492
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	GeoB 247	Mediterranean Sea, Balearic Sea, off Spain	KJ189493
<i>Scrippsiella trochoidea</i> (F.Stein) A.R.Loeb.	GeoB 290	North Sea, off Norway: Trondheim Fjord (63°29'N 9°59'E)	DQ167866, DQ167867
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB 360	North Sea, off Germany (54°59'N 2°55'E)	HQ729495, JN982399
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB 369	Mediterranean Sea, Adriatic Sea, off Italy (42°20'N 14°25'E)	JQ422486
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB 371	Mediterranean Sea, Adriatic Sea, off Italy (42°20'N 14°25'E)	JQ422483
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	GeoB 377	Mediterranean Sea, off Italy (40°40'N 14°46'E)	HQ729499, JN982400
<i>Scrippsiella trochoidea</i> (F.Stein) A.R.Loeb.	GeoB 427	Baltic Sea, off Germany (54°26'N 10°13'E)	JN982383
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	GSW9808	off Korea	AY421792, EF613366
<i>Scrippsiella</i> aff. <i>trochoidea</i> auct. non (F.Stein) A.R.Loeb.	IO26-01	eastern North Atlantic, off Portugal (37°57'N 8°53'W)	AY676163, JN982396
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	NCMA2271	USA–ND: Jim Lake	HM483396
<i>Scrippsiella trochoidea</i> (F.Stein) A.R.Loeb.	ST-1	China, Shandong, Jiaozhou Bay	EU370963, EU370960
<i>Scrippsiella</i> cf. <i>trochoidea</i> (F.Stein) A.R.Loeb.	ST-K	East China Sea, off South Korea	EU370964, EU370961

<i>Scrippsiella trochoidea</i> var. <i>aciculifera</i> Montresor	GeoB*213	North Sea, off Germany (53°45'N 8°34'E)	AY676164, KJ189494
<i>Stoeckeria algicida</i> 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	Sa2YD	South Korea: Masan Bay	AJ841809, EU978467
<i>Stoeckeria algicida</i> 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	SaZY	South Korea: Masan Bay	AJ841809, EU978468
<i>Stoeckeria</i> spec.	Shepherd's Crook	USA–FL: Trout River	AY590479
<i>Stoeckeria</i> spec.	Shepherd's Crook	USA–FL: St. Lucie River	AY590484
<i>Stoeckeria</i> spec.	SSMS0806	South Korea: Masan	FN557541
<i>Thoracosphaera heimii</i> (Lohmann) Kamptner	CCCM670	Gulf of Mexico	HQ845327
<i>Tintinnophagus acutus</i> Coats (isolated from <i>Tintinnopsis cylindrica</i> Daday, 1887)	–	USA–MD: Chesapeake Bay	HM483397