

Table S1 Gene Bank Accession Number and origin/habitat description of the reference strains used for phylogenetic tree construction

Gene Bank Nr.	Taxon	Strain	Origin/Habitat
MK211230	<i>"Pseudophormidium"</i> <i>battersii</i>	KZ-16-2	Ukraine: the Crimea, Leninsky Distinct, Kazantip national reserve, chasmoendoliths, limestone outcrops, coast of Azov Sea, coast of Azov
AJ626846	<i>"Urospora"</i> sp. uncultured		Antarctica: Terra Nova Bay, sea water
U63099	<i>Bracteacoccus giganteus</i>	UTEX 1251	USA
KF673367	<i>Bracteacoccus minor</i>	SAG 221-1	soil
JQ281841	<i>Bracteacoccus ruber</i>	CCAP 221/7	Antarctica: Mt Erebus, Ross Island, soil
MK231272	<i>Bracteacoccus xerophilus</i>	KZ-2-2-6	Ukraine: the Crimea, Leninsky Distinct, Kazantip national reserve, biocrust, clay scree, coast of Azov
FR865616	<i>Chlamydomonas applanata</i>	CCAP 11/9	Czech Republic: botanic garden, Prague University, decaying leaf litter
FR865582	<i>Chlamydomonas dorsoventralis</i>	CCAP 11/4	Czech Republic: Hirschberg, pond, Dorfteich
JQ315503	<i>Chlamydomonas hedleyi</i>	KMMCC 188	seawater
FR865590	<i>Chlamydomonas leicostraca</i>	CCAP 11/49	UK: Cambridge, England, Madingley Road, farmyard puddle
AB511834	<i>Chlamydomonas reinhardtii</i>	UTEX 90	USA: Amherst, Massachusetts, potato field
JQ315516	<i>Chlamydomonas</i> sp.	KMMCC 189	seawater
GQ176853	<i>Chlorella pituita</i>	ACOI 311	Portugal: Mira, trout nursery
MH415449	<i>Chloroidium lichenum</i>	Vancurova OP1118.1	Czech Republic: lichen thallus, slag, on <i>Stereocaulon nanodes</i>
FR865528	<i>Chloromonas rosae</i>	CCAP 11/112	Norway: østfold, Lake Hollitjernet (freshwater)
MH703736	<i>Chloromonas</i> sp.	Ru-6-8	Germany: Prora, Rügen, biocrust, sand dunes, Baltic Sea coast
AY476827	<i>Chlorothrix</i> sp.	ChloPac47SI	Canada: Ucluelet, Vancouver I., British Columbia
KM020111	<i>Coccobotrys mucosus</i>	SAG 24.92	Antarctica: Princess Elizabeth Land, Vestfold Hills, nutrient enriched soil, elephant seal wallow
KM020110	<i>Coccobotrys verrucariae</i>	SAG 16.97	Switzerland: phycobiont of lichen <i>Verrucaria</i> spec.
FM882216	<i>Desmochloris halophila</i>	CCAP 6006/1	Africa
FM882217	<i>Desmochloris mollenhaueri</i>	CCAP 6006/2	South Africa: Flaminkvlakte, western Succulent Karoo, semi-desert, biocrust
LT560371	<i>Edaphochlorella mirabilis</i>	SAG 211-30	Germany: Göttingen, Old Botanical Garden University of Göttingen, basin
FJ648518	<i>Elliptochloris subsphaerica</i>	SAG 2202	Japan: Yokogawa, Hiroshima-City, on surface of bark

MH703757	<i>Emerochloris sphaerica</i>	Us-s-7-5	Germany: Karlshagen, Usedom, biocrust, Baltic Sea coast
FR865661	<i>Graesiella emersonii</i>	CCAP 211/5	UK: England, freshwater
AM412750	<i>Koliella sempervirens</i>	CCALA 363	Slovakia: Bratislava
HE984579	<i>Leptochlorella corticola</i>	I2e	Slovenia: Portoroz, bark of <i>Cupressus sempervirens</i>
KF693810	<i>Leptochlorella</i> sp.	UTEX EE84	Israel: Negev Desert
FR798945	<i>Leptolyngbya foveolarum</i>	VP1-08	Italy: Firenze, Villa La Pietra, concrete-made fountain with stagnant water, gray dry crust
KP081398	<i>Myrmecia cf. irregularis</i>	LH08AW3064	Germany: terrestrial
JQ922411	<i>Nannochloris</i> sp.	AICB 424	
MH305359	<i>Nannochloris</i> sp.	Z5	Russia: Siberia, saline lake Shira
HM018677	<i>Nodosilinea epilithica</i>	Kovacik 1998/7*	Italy: Vieste, Foggia, Peninsula Gargano, green biofilm on the wall of house
KJ004406	<i>Phormidesmis</i> sp.	ACL_P2D9	USA: Oroville, Washington, microbial mat in hypersaline hot lake
MF034636	<i>Planophila bipyrenoidosa</i>	ULVO-1	alpine chalk soils?
AY493583	<i>Plectolyngbya hodgsonii</i>	ANT.LPR2.2	Antarctica: Long peninsula, saline Pendant lake
X91268	<i>Pseudomuriella aurantica</i>	SAG 249-1	Switzerland: Basel, Ritterstrasse 31, wet shaded tuff in garden
AB360750	<i>Rusalka fusiformis</i>	NIES-123	Japan: Niseko, Hokkaido, Lake Shinsen-numa (freshwater)
KM020016	<i>Tetracystis</i> sp.	14601-7.1	
MH703773	<i>Tetrademus arenicola</i>	WD-7-1	Germany: Warnemuende, sand dunes, Baltic Sea coast, biocrust
MG022741	<i>Tetrademus obliquus</i>	CCAP 276/3C	Germany: Marburg, freshwater
DQ821515	<i>Ulothrix</i> sp.	X1	USA: west shore of Amaknak Island, Alaska, mid intertidal boulders near the Dutch Harbor airport
DQ821516	<i>Ulothrix</i> sp.	X3	USA: west shore of Amaknak Island, Alaska, mid intertidal boulders near the Dutch Harbor airport
FN811228	uncultured cyanobacterium	UMAB-cl-44	Antarctica: Alexander Island, soil
AY476821	<i>Urospora neglecta</i>	strain Seward 8	Canada: Seward, Alaska
AJ626846	<i>Urospora</i> sp.	uncultured	Antarctica: Terra Nova Bay, the Italian Antarctic Station, thick green mats on granitic rocks
MH827565	<i>Watanabea acidotolerans</i>	CAUP H 8901	Czech Republic: stone surface, found at the bottom near shore of acidic (pH 2.6) Hromnice Lake
MH499911	<i>Watanabea borysthena</i>	SAG 2550	Ukraine: Trakhtemyriv Nature Reserve, on surface of sandstone
KC463197	" <i>Leptolyngbya</i> " <i>subtilissima</i>	EcFYyyy700	South Africa: Succulent Karoo, semi-desert, biocrust
JX513885	" <i>Scotiellopsis</i> " <i>reticulata</i>	CCALA 474 2	Romania: Constanta, sand, psammon
KY807917	„ <i>Chlorogloea</i> “ <i>microcystoides</i>	SABCo22904	Ireland: Kilkee
AY455943	<i>Acrosiphonia coalita</i>		USA: California, Humboldt County, Baker Beach
HE610119	<i>Acrosiphonia</i> sp.	SAG 127.80	Germany: Helgoland, marine

FN562430	<i>Acrosiphonia</i> sp.	SAG 127.80	Germany: Helgoland, marine
AB049418	<i>Acrosiphonia duriuscula</i> var. <i>tenuis</i>		
MH703777	<i>Actinochloris sphaerica</i>	SAG 23.93	Germany: Brandenburg, Güterfelde/Potsdam, loamy sandy soil from winter barley field
AB936278	<i>Actinochloris sphaerica</i>	UTEX 121	
AY510463	<i>Acutodesmus deserticola</i>	BCP-YPGChar	USA: Yuma Proving Ground, Arizona
MK503792	<i>Aliinostoc catenatum</i>	SA24	Iran: Mazandaran province of Iran, garden soil
MK503793	<i>Aliinostoc constrictum</i>	SA30	Iran: Mazandaran province of Iran, paddy field
NR_158066	<i>Aliinostoc morphoplasticum</i>	MCC3177	India: Sihora, Jabalpur, eutrophic pond
AB058336	<i>Alvikia littorale</i>	MBIC10280	
JX169829	<i>Apatococcus lobatus</i>	SAG 2151	Germany: Rostock, Südstadt, Max-Planck-Str., on plastic switchbox
JX169826	<i>Apatococcus lobatus</i>	SAG 2359	Germany: Göttingen, Obere Karspüle 18, on green plastic biowaste bin
KM020133	<i>Axilosphaera vegetata</i>	SAG 30.95	USA: TN, Wilson Country, surface soil from cedar glades of Lebanon State Forest
AJ000206	<i>Blidingia minima</i>		UK: Scotland
AY303596	<i>Bolbocoleon piliferum</i>	Waz1	USA: Cattle Point, San Juan Island, Washington, endophytic in <i>Cymathere triplicata</i>
MF101222	<i>Borodinellopsis texensis</i>	JM002	Thailand: sea salt farm
KM020129	<i>Borodinellopsis texensis</i>	SAG 17.95	USA: Texas, soil from Mustang Islan
JQ281839	<i>Bracteacoccus aerius</i>	UTEX 1250	USA: Austin, Texas, air-borne dust
JQ281840	<i>Bracteacoccus aggregatus</i>	G2-3	Germany: Göttingen, meadow
MH703740	<i>Bracteacoccus aggregatus</i>	Ru-s-4-5	Germany: Prora, Ruegen, biocrust, sand dunes, Baltic sea coast
MH703758	<i>Bracteacoccus aggregatus</i>	Us-s-7-3	Germany: Zempin, Usedom, biocrust, baltic sea coast
JF717415	<i>Bracteacoccus bohemiensis</i>	KF-2011b	Czech Republic
JQ281848	<i>Bracteacoccus bullatus</i>	SAG 2032	Germany: near Harz mountains, soil from mining dump, contaminated with heavy metals
JQ259931	<i>Bracteacoccus bullatus</i>	SAG 2317	
JQ281857	<i>Bracteacoccus deserticola</i>	BCP-EM3-VF7	USA: Sierra San Pedro Martir of Baja California, Mexico, decomposed granite sandy soil
HQ246427	<i>Bracteacoccus giganteus</i>	UTEX 1252	USA: Enchanted Rock, Texas
JQ281862	<i>Bracteacoccus glacilis</i>	Broady 686	Antarctica
JF717398	<i>Bracteacoccus minor</i>	UTEX 66	
JQ259951	<i>Bracteacoccus occidentalis</i>	BCP-WJT8-VFNP 19	USA: Joshua Tree National Park, California
JQ281867	<i>Bracteacoccus polaris</i>	KF28	Sweden: Abisko

HQ246424	<i>Bracteacoccus pseudominor</i>	UTEX 1247	
AF516676	<i>Bracteacoccus</i> sp.	BC2-1	USA: desert soil
JQ281873	<i>Bracteacoccus xerophilus</i>	BCP-ZNP1-VF32	USA: Utah, Zion National Park
EF490447	<i>Brasilonema terrestre</i>	CNA116	
NR_114995	<i>Calothrix desertica</i>	PCC 7102	Chile: Antofagasta, sand
HF678479	<i>Calothrix parietina</i>	CCAP 1410/10	UK: England, Durham, freshwater stream
KU951670	cf. <i>Phormidesmis</i> sp.	LEGE 11434	Portugal: less than 1 km off the shore, near Leixoes Harbour, subtidal
MF034630	<i>Chamaetrichon brasiliensis</i>	SAG 1.87	USA: TE, Nashville, pool at Couchville Pike
MF034631	<i>Chamaetrichon brasiliensis</i>	SAG 2396	Germany: western margin of the Franconian Alb, tufa-forming karstwater stream "Deinschwanger Bach", biofilm on rock surface
JN385292	<i>Champylonemopsis</i> sp.	HA4241-MV5	USA: Oahu, Hawaii, Laie Falls
LC322160	<i>Chlamydomonas bilatus</i>	SAG 7.72	Slovakia: High Tatra Mountains, pool (freshwater)
FR865606	<i>Chlamydomonas hydra</i>	CCAP 11/6B	freshwater
JN903986	<i>Chlamydomonas macrostellata</i>	SAG 72.81	France: Jardin Alpin du Museum, Paris, freshwater ditch
AB058373	<i>Chlamydomonas parkeae</i>	MBIC10599	
AJ781313	<i>Chlamydomonas raudensis</i>	CCAP 11/131	Antarctica: Lake Bonney
GU117583	<i>Chlamydomonas reticulata</i>	CCCryo 154-01	Norway: Svalbard, High Arctic, snow, from the surface of the Svenbreen glacier
KP313859	<i>Chlamydomonas</i> sp.	UWO 241	Antarctica: Lake Bonney
HQ111432	<i>Chlorella chlorelloides</i>	CB 2008/110	Germany: Mecklenburg Vorpommern, plankton in lake Pragsdorfer See (freshwater)
FM205862	<i>Chlorella coloniales</i>	UTEX 938	
FM205858	<i>Chlorella elongata</i>	CCAP 211/18	
FM205861	<i>Chlorella lewinii</i>	CCAP 211/90	Chile: Easter Island, soil from the edge of a permanent freshwater pond in a crater
FM946019	<i>Chlorella lichenum</i>	SAG 2115	Germany: Göttingen, Nikolausberger Weg 18, on silicone insolation
FM205833	<i>Chlorella lobophora</i>	SAG 37.88	former USSR; Briamskaia district, Krasmyj Rog, soil from mixed forest
FM205856	<i>Chlorella pituita</i>	ACOI 856	Portugal: Serra da Estrela, Manteigas, flowing water
HQ111431	<i>Chlorella pulchelloides</i>	CCAP 211/118	Germany: Feldberger Haussee (freshwater)
HQ111433	<i>Chlorella rotunda</i>	CCAP 260/11	Angola: Okavango, freshwater
KM020042	<i>Chlorella salina</i>	SAG 8.86	UK: North Wales, oyster breeding tank at Conway
HQ111435	<i>Chlorella singularis</i>	CCAP 211/119	Kenya: Nakuru Sewage Pond, freshwater
FM205834	<i>Chlorella sorokiniana</i>	SAG 211.8k	

Y14950	<i>Chlorella</i> sp.	Yanaqocha RA1	Peru: Lake Yanaqocha?
HQ111434	<i>Chlorella volutis</i>	CCAP 211/120	Kenya: Nakuru National Park, Rhinopool, freshwater
FN298917	<i>Chlorella vulgaris</i>	CCAP 211/109	USA: endosymbiont of <i>Paramecium bursaria</i> , freshwater
FR865659	<i>Chlorella vulgaris</i>	CCAP 211/11Q	former Czechoslovakia: freshwater
AY591508	<i>Chlorella vulgaris</i>	SAG 211-11b	Netherlands: eutrophic pond near Delft
MH703759	<i>Chlorella vulgaris</i>	Us-s-7-4	Germany: Zempin, Usedom, biocrust, Baltic Sea coast
AB058302	<i>Chlorococcum dorsiventrale</i>	MBIC10044	
FR865693	<i>Chlorocystis</i> sp.	CCAP 233/1	France: Soulac, from <i>Ulva</i> culture
MK541803	<i>Chlorocystis</i> sp.	CCAP 6005/13	Madagascar: Chenal d'Ampanarata , Belo sur Mer, epiphyte on <i>Bostrychia pinnata</i> (marine)
AB278611	<i>Chlorogonium capillatum</i>	NIES-692	Japan: Miyatoko Mire Fukushima Japan, freshwater bog
AB278621	<i>Chlorogonium elongatum</i>	NIES-751	UK: England, Caldbeck., freshwater pond
AB278607	<i>Chlorogonium euchlorum</i>	UTEX 2010	Germany
KR607488	<i>Chlorogonium</i> sp.	SAG 17	
MH551519	<i>Chloroidium antarcticum</i>	ISBAL-103	Antarctica: South Shetlands, King George Island, Ecology Glacier
MH551521	<i>Chloroidium arboriculum</i>	MG-3	Vienna: Vienna Forest, bark of tree, free-living biofilm on <i>Fagus sylvatica</i>
FM946012	<i>Chloroidium ellipsoideum</i>	SAG 3.95	
FM946015	<i>Chloroidium ellipsoideum</i>	SAG 2143	Germany: Rostock, Südstadt, Ernst-Häckel-Str.12-15, east, on rough plaster
FM946011	<i>Chloroidium engadinense</i>	SAG 812-1	Switzerland: Unterengadin, soil
HF586465	<i>Chloroidium laureanum</i>	CAUP H8501	Slovenia: Ankaran, corticolous microbial biofilms, bark of <i>Laurus nobilis</i>
FM946020	<i>Chloroidium lichenum</i>	SAG 2144	Germany: Rostock, Südstadt, Brahestr. 7-11, west, on rough plaster
MH551523	<i>Chloroidium lobatum</i>	CAUP 8502	Slovenia: Pacug, bark of <i>Fraxinus ornus</i>
FM946000	<i>Chloroidium saccharophilum</i>	SAG 211-9a	Germany: sap from wounded <i>Populus alba</i>
MH703747	<i>Chloroidium</i> sp.	Ru-6-6	Germany: Prora, Ruegen, biocrust, sand dunes, Baltic Sea coast
FR865615	<i>Chloroidium</i> sp.	CCAP 11/8	former Czechoslovakia: freshwater
MH415214	<i>Chloroidium</i> sp.	LV-2018	Czech Republic: Dobany, lichen thallus (<i>Stereocaulon vesuvianum</i>), on industrial foam
MH551495	<i>Chloroidium viscosum</i>	SAG 56.87	Austria: Burgenland near Tatzmannsdorf, trunk of <i>Quercus</i> , phycobiont of lichen <i>Woessia fusarioides</i>
AJ410445	<i>Chloromonas actinochloris</i>	SAG 1.72	USA: Texas, Caldwell Co., soil
MG189707	<i>Chloromonas arctica</i>	CCALA:10278	Norway: Svalbard, High Arctic, snow, from the surface of the Svenbreen glacier
AJ410452	<i>Chloromonas aufgustae</i>	SAG 5.73	former Czechoslovakia: mucous covers in swamp, freshwater
AY653740	<i>Chlorothrix</i> sp.	C167	Canada: Ucluelet, Vancouver, British Columbia

MK211229	<i>Chroakolemma edaphica</i>	KZ-23-2	Ukraine: the Crimea, Leninsky Distinct, Kazantip national reserve, biocrust, clay scree, coast of Azov
GU827477	<i>Chromochloris zofingiensis</i>	CAUP H6503	Sweden: Lake Erken
KF673375	<i>Chropmochloris zofingiensis</i>	SAG 221-2	Switzerland: Unterengadin, soil
HG972998	<i>Coccomyxa dispar</i>	SAG 49.84	Germany: peat soil in Steinhauser Ried, phycobiont of lichen <i>Multiclavula vernalis</i>
HG973006	<i>Coccomyxa viridis</i>	SAG 2325	France: Tours, from protoplast cell cultures of a <i>Ginkgo biloba</i> tree from botanical garden
JX513883	<i>Coelastrella</i> sp.	SAG 2123	Germany: Schermbeck, Haus Dr. Ammenwerth, Burgstrasse, edge of the woods, rooftile
AF388376	<i>Coelastrum sphaericum</i>	SAG 32.81	Hungary: freshwater
JX169834	<i>Coenochloris signiensis</i>	CCAP 176/3	Antarctica: Signy Island, South Orkney Islands, Antarctica, soil and moss
NR125521	<i>Coleofasciculus chthonoplastes</i>	strain SAG 2209	Germany: Zingst, Baltic Sea, wind flat, microbial mat
MF034603	<i>Ctenocladus circinnatus</i>	CCMP 2158	sandstone
MF034606	<i>Ctenocladus circinnatus</i>	ULVO-18	sandstone
KJ737428	<i>Cyanocohniella calida</i>	CCALA 1049	Czech Republic: Karlovy Vary, hot thermal spring
MN243143	<i>Cyanocohniella crotaloides</i>	PJ S45	Netherlands: Schirmonnikoog Island, cyanobacterial mats
MT425938	<i>Cyanocohniella</i> sp.	ACSSI 322	Russia: soil
FR774768	<i>Cyanopsira rippkae</i>	NMBCI	Chad: Eastern fringe of Lake Chad, closed hyperalkaline pond
AY038036	<i>Cyanospira rippkae</i>	PCC 9501	Kenya: hypersaline soda lake Magadi
KF144190	<i>Desmochloris</i> cf. <i>halophila</i>	SAG 2397	Germany: Franconian Alb, Deinschwanger Creek, biofilm on rock surface in karstwater stream
AB049416	<i>Desmochloris halophila</i>	UTEX 2073	brakish water
MH703754	<i>Desmochloris halophila</i>	Ru-s-3-2	Germany: Rügen, Glowe, biocrust, sand dunes, Baltic Sea coast
FM882218	<i>Desmochloris mollenhaueri</i>	CCAP 6006/3	South Africa: Flaminkvlakte, western Succulent Karoo biome, semi-desert, biocrust
KY086483	<i>Desmochloris</i> sp.	ACSSI 180	Russia: Oblast Volgograd
KF791549	<i>Desmochloris</i> sp.	JB13	China: Songnen Plain, saline-alkali soil, grassland
AJ431571	<i>Desmococcus endolithicus</i>	SAG 15.92	Antarctica: Edward VII Peninsula, Marie Bird Land, chasmoendolithic at Scott Nunataks
KM020049	<i>Desmococcus olivaceus</i>	SAG 1.92	Austria: Vienna, bark
KP726266	<i>Desmodesmus denticulatus</i>	KLL-G003 clone	Israel
AM711523	<i>Desmonostoc mucosum</i>	Lukesova 1/87	Czech Republic :Plzensky kraj, Dlouha Ves, soil sample from wet meadow
HG004585	<i>Desmonostoc</i> sp.	PCC 9230	Canada: Park 1, Halifax, Nova Scotia
KM020081	<i>Dictyochloris fragrans</i>	SAG 220-1b	Switzerland: soil from National Park Unterengadin at II Fuorn
GU017656	<i>Dictyochloropsis splendida</i>	HEW11-R2	Germany: bark of beech tree

GU017649	<i>Dictyochloropsis splendida</i>	SAG 2071	Japan: Nishi-kawaguchi-cho, Hiroshima-Pref., on surface of bark
FM205840	<i>Didymogenes palatina</i>	SAG 30.92	Germany: Jülich, fire fighters pond at KFA
MF124975	<i>Diplosphaera chodatii</i>	D52	Canada: Manitoba, Payuk Lake
MK201746	<i>Diplosphaera chodatii</i>	KZ-26-5	Ukraine: the Crimea, Leninsky Distinct, Kazantip national reserve, chasmoendoliths, limestone outcrops, coast of Azov Sea, coast of Azov
MT078177	<i>Diplosphaera chodatii</i>	SAG 11.88	New Zealand: Waweira Scenic Reserve, phycobiont of lichen <i>Pseudocyphellaria carpoloma</i> on <i>Rhopalostylus sapida</i>
MT078178	<i>Diplosphaera chodatii</i>	SAG 48.86	Antarctica: Princess Elizabeth Land, Vestfold Hills, from moss
HQ129931	<i>Diplosphaera chodatii</i>	UTEX 1177	USA: Texas, Blackland Prairie, soil
KM020116	<i>Diplosphaera chodatii</i>	SAG 49.86	Switzerland: Basel, Botanical Garden University Basel, water bloom small bog
MH703748	<i>Diplosphaera</i> sp.	Ru-6-16	Germany: Prora, Ruegen, biocrust, sand dunes, Baltic Sea coast
DQ009763	<i>Dunaliella parva</i>	SAG 19-1	Romania: Lacul Sarat, marine
DQ530055	<i>Elliptochloris bilobata</i>	SAG 245.80	Austria: Kärnten, Kreuzeckgruppe, 2200 m, phycobiont of <i>Catolechia wahlenbergii</i>
AJ005413	<i>Enteromorpha intestinalis</i>	SY0104	
AY510465	<i>Flechtenia rotunda</i>	BCP-SEv3-VF49	USA: Sevilleta LTER, Socorro Co., New Mexico, soil
HQ847570	<i>Fortia</i> sp.	HA4221-MV2	USA: Oahu, Hawaii, Laie Falls
AM412753	<i>Gloeotila scopulina</i>	SAG 335-8	Sweden: freshwater
AB360742	<i>Gungnir kasakii</i>	CCAP 12/8	UK: Priest Pot, Cumbria, England, freshwater
AB360747	<i>Haematococcus lacustris</i>	NIES-144	Japan: Sapporo Hokkaido Japan, freshwater lake
KM020176	<i>Halochlorococcum dilatatum</i>	SAG 12.90	Germany: Helgoland, rock-pool
AY198122	<i>Halochlorococcum moorei</i>	Wa14-B	USA: San Juan Island, endophyte in <i>Blidingia</i> cf. <i>minima</i>
DQ821520	<i>halochlorococcum porphyrae</i>		USA: California, Carmel, endophyte in <i>Porphyra schizophylla</i> , marine
MF034634	<i>Halofilum salinum</i>	SAG 1.95	France: schorre de estuary of river Orne at Sallenelles, from piece of wood
MF034615	<i>Halophilum ramosum</i>	SAG 2050	UK: Anglesey, Porth Trecastel, in stonecracks of coastal rocks, phycobiont of <i>Wahlenbergiella striatula</i>
KJ843313	<i>Halotia longispora</i>	CENA420	Antarctica: Baranowski glacier biofilm growing on rocks, saline
KC695854	<i>Halotia wernerae</i>	CENA 160	Brazil: mangrove, Cardoso Island, saline soil
AM905327	<i>Hassallia byssoidea</i>	CCALA 823	Czech Republic: South Moravia, cyanobacterial mat on granitic rock
KM020117	<i>Heterochlamydomonas inaequalis</i>	SAG 4.75	USA: Tennessee, forest soil from Wilson Co.
LC057289	<i>Ixipapillifera sacculiformis</i>	SAG 63.72	Germany: Lüneburger Heide, freshwater pond

AY493607	<i>Leptolyngbya antarctica</i>	ANT.L18.1	Antarctica: Lake Spate/Oskar, Larsemann Hills, microbial mat
HF678483	<i>Leptolyngbya boryana</i>	UTEX B 488	
KX765291	<i>Leptolyngbya ectocarpi</i>	SABC012402	Ireland: Ballybunion
FM210757	<i>Leptolyngbya laminosa</i>	ETS-08	Italy: Padova, Montegrotto Terme, Euganean hot thermal springs, microbial mats
FR798934	<i>Leptolyngbya margaretheana</i>	1T12	Italy: Firenze, Piazza SS. Annunziata, Tacca's fountain, green biofilm under the water flow on the marble pedestal
AY493584	<i>Leptolyngbya</i> sp.	ANT.L52.1	Antarctica: Brocknes, Bruehwiler lake (freshwater), microbial mat
GQ859652	<i>Leptolyngbya tenuis</i>	PMC304.07	France
Z68696	<i>Leptosira erumpens</i>	UTEX 979	USA: McMahan, Texas, Carrizo Sands
Z68695	<i>Leptosira obovata</i>	SAG 445-1	Switzerland: Basel, boggy water at Rosenau
U70594	<i>Lobochlamus culleus</i>	SAG 18.72	USA: Florida, field near Maxville
AJ410456	<i>Lobochlamus segnis</i>	SAG 52.72	Czech Republic: Altvater-Gebirge, soil from beech forest near Winkelsdorf
AJ410461	<i>Lobochlamys culleus</i>	SAG 17.73	Czech Republic: pond in Nordmähren (freshwater)
KM020046	<i>Lobosphaera incisa</i>	SAG 2466	
AB080301	<i>Marvania coccoides</i>	CCAP 251/1b	UK: Cambridge, England, freshwater
KM020037	<i>Marvania geminata</i>	SAG 12.88	former Czechoslovakia: freshwater
FR854374	<i>microglena basinucleata</i>	SAG 67.72	Germany: Göttingen, University, pond in Botanical Garden
AY577534	<i>Mojavia pulchra</i>	JT2-VF2	USA: Joshua Tree National Park, California, desert soil
KJ939052	<i>Myxacoris californica</i>	WJT36-NPBG1	USA: Joshua Tree National Park, Wonderland of Rocks, San Bernardino Co., California, granitic desert soil
KJ939079	<i>Myxacoris chilensis</i>	ATA2-1-KO14	Chile: biocrust in Atacama Desert, desert soil
AB080303	<i>Nannochloris atomus</i>	CCAP 251/7	marine
AB080300	<i>Nannochloris bacillaris</i>		
AB080302	<i>Nannochloris maculata</i>	CCAP 251/3	marine
AY195983	<i>Nannochloris</i> sp.	JL 4-6	USA: Arrowood National Wildlife refuge, North Dakota, Jim Lake (freshwater)
MK231273	<i>Nannochloris</i> sp.	KZ-2-2-4	Ukraine: the Crimea, Leninsky Distinct, Kazantip national reserve, biocrust, clay scree, coast of Azov
MK231273	<i>Nannochloris</i> sp.	strain KZ-2-2-4	Ukraine: the Crimea, Leninsky Distinct, Kazantip national reserve, biocrust, clay scree, coast of Azov
JQ920362	<i>Neocystis brevis</i> strain	CCALA 393	Switzerland: Unterengadin, soil

JQ920367	<i>Neocystis mucosa</i>	SAG 40.88	Antarctica: freshwater
AJ416104	<i>Neodangemannia microcystis</i>	SAG 2022	Germany: Helgoland, on old shell in tide pool
AB936280	<i>Neospongiococcum proliferum</i>	UTEX 1846	USA: Memphis, Tennessee, USA. cotton field, Shelby Forest
EU528669	<i>Nodosilinea bijugata</i>	str. KOVACIK1986/5a	Poland: littoral region Lake Piaseczno
MH688852	<i>Nodosilinea cf. epilithica</i>	Ru-6-11	Germany: Prora, Ruegen, biocrust, sand dunes, Baltic Sea coast
MH688851	<i>Nodosilinea cf. epilithica</i>	Us-2-1	Germany: Karlshagen, Usedom, biocrust, Baltic Sea coast
KF307598	<i>Nodosilinea nodulosa</i>	UTEX 2910	China: Hong Kong, South China Sea, ocean plankton
MF352005	<i>Nodosilinea radiophila</i>	TM S2B	Iran: thermal springs Ramsar, Mazadaran Province, soil samples, high radioactivity
MF348321	<i>Nodosilinea ramsarensis</i>	KH-S S2.6	Iran: Ramsar ,Mazandaran Province, soil around the thermal spring (32 °C)
AJ639893	<i>Nodosilinea sp.</i>	0BB24S04	Italy: Emilia-Romagna, Imola, Bubano Basin
HM217061	<i>Nodosilinea sp.</i>	LEGE 073141	Portugal: Douro estuary, Douro-Porto edge
KM019929	<i>Nodularia harveyana</i>	SAG 44.85	UK: Lincolnshire, salt marsh near Gibraltar Pt., brackish water
AF268022	<i>Nodularia spumigena</i>	UTEX B2092	Canada: Osoyoos, British Columbia, Canada, alkaline soil
HM018687	<i>Oculatella coburnii</i>	WJT36-NPbg13	USA: Joshua Tree National Park, California
EU528672	<i>Oculatella neakamienensis</i>	str. Kovacik 1990/54	Greece: Nea Kammeni Island, Volcano
AB183610	<i>Oltmannsiellopsis geminata</i>	MBIC10525	Endophytic in <i>Cymathere triplicata</i>
FN562431	<i>Oltmannsiellopsis viridis</i>	NIES 360	Japan: Onagawa Bay Miyagi
AJ410466	<i>Oogamochlamys gigantea</i>	SAG 9.84 *	USA: Texas, Llano Co., soil from Enchanted Rock
EU878373	<i>Parietochloris alveolaris</i>	UTEX 836	
MF034625	<i>Paulbroadya pertersii</i>	ULVO-34	UK: Oban, Scotland, phycobiont isolated from the lichen <i>Verrucaria mucosa</i>
FR865730	<i>Pectinodesmus pectinatus</i>	CCAP 276/51	Finnland: Långkär, Tvärminne, freshwater
AY454429	<i>Phaeophila dendroides</i>	MA2.4a1	USA: Quissett Estuary, Woods Hole, MA, in oyster shell
KU219737	<i>Phormidesmis arctica</i>	MUM 11-7 CCALA 1101 *	Norway: Svalbard, Petunia Bay
AY493581	<i>Phormidesmis priestleyi</i>	ANT.L66.1	Antarctica: Larsemann Hills, microbial mat in freshwater lake
AY493586	<i>Phormidesmis priestleyi</i>	ANT.LACV5.1	Antarctica: Long peninsula, Vestfold Hills, saline Ace lake, microbial mat
AY493620	<i>Phormidesmis pristleyi</i>	ANT.LPR2.5	Antarctica: Long peninsula, Vestfold Hills, saline Pendant lake, microbial mat
KT731154	<i>Phormidesmis sp.</i>	CENA335	Brazil: Bertioga/SP, leaf of <i>Avicennia schaueriana</i> (mangrove)

KT731156	<i>Phormidesmis</i> sp.	CENA339	Brazil: Bertioga/SP, leaf of <i>Avicennia schaueriana</i> (mangrove)
AY493627	<i>Phormidium murrayii</i>	ANT.LACV5.2	Antarctica: Long peninsular, Vestfold Hills, saline Ace lake, microbial mat
GQ859651	<i>Phormidium</i> sp.	PMC301.07	
AY526738	<i>Picochlorum</i> sp.	RCC115	marine
AY422076	<i>Picochlorum</i> sp.	UTEX 2378	marine
MF034637	<i>Planophila bipyrenoidosa</i>	ULVO-55	alpine chalk soils?
MF034638	<i>Planophila laetevirens</i>	SAG 2008	Italy: South Tyrol, Italy, Dolomites, soil
MF034642	<i>Planophila laetevirens</i>	SAG 465-1	Switzerland: Basel, garden pool
MF034640	<i>Planophila laetevirens</i>	ULVO-56	Ukraine: Cherkassy Oblast, Regional Landscape Park „Trakhtemyriv“, sandstone, chasmoendolithic
MF034618	<i>Pseudoclonium commune</i>	SAG 2236	Sweden: Öland, Baltic sea, phycobiont isolated from the lichen <i>Verrucaria maura</i>
MF034610	<i>Pseudoclonium incrustans</i>	CCAP 415/1	Austria: phycobiont in lichen <i>Verrucaria aquatilis</i>
MF034619	<i>Pseudoclonium submarinum</i>	SAG 2237	UK: West Scotland, phycobiont isolated from the lichen <i>Verrucaria maura</i> (?)
X63520	<i>Pseudochlorella pringsheimii</i>	SAG 211-1a	freshwater
LT560358	<i>Pseudochlorella pyrenoidosa</i>	SAG 18.95	Italy: South Tyrol, soil from Dolomites
KM116464	<i>Pseudochlorella signiensis</i>	SAG 7.90	Antarctica: South Orkney Islands, Signy Island, soil
LT560366	<i>Pseudochlorella signiensis</i>	PS-2	Ukraine: Island Zmijiny, Black Sea, soil
KM116465	<i>Pseudochlorella signiensis</i>	SAG 2110	Göttingen: Nikolausberger Weg 18, from roof tile
LT560361	<i>Pseudochlorella signiensis</i>	SAG 2300	Africa
LT560360	<i>Pseudochlorella signiensis</i>	SAG 7.90	Antarctica: South Orkney Islands, Signy Island, soil
HQ292734	<i>Pseudomuriella aurantica</i>	KF43	Czech Republic: Zbrašovská Cave, cave sediment
KF673365	<i>Pseudomuriella engadinensis</i>	SAG 221-3	Switzerland: Unterengadin, soil
AY493587	<i>Pseudophormidium</i> sp.	ANT-LPE.3	Antarctica: Long peninsula, Vestfold Hills, saline Pendant lake, microbial mat
KF144198	<i>Pseudopleurococcus printzii</i>	SAG 467-1	Switzerland: Rosenau/Basel, bog water
MH703749	<i>Pseudostichococcus monallantoides</i>	Ru-s-4-2	Germany: Prora, Ruegen, biocrust, sand dunes, Baltic Sea coast
MT078185	<i>Pseudostichococcus monallantoides</i>	SAG 2067	former Yugoslavia: Dalmatia, Island of Lavsa, soil
MT078184	<i>Pseudostichococcus monallantoides</i>	SAG 379-4	USA: Massachusetts, aquarium (freshwater)

KM020066	<i>Pseudostichococcus monallantoides</i>	SAG 380-1	Germany: from a culture of <i>Enteromorpha compressa</i> (marine)
MT078186	<i>Pseudostichococcus monallantoides</i>	UTEX 2249	Laboratory contamination
DQ821514	<i>Pseudothrix borealis</i>		USA: Amanak Island, Alaska, mid intertidal boulders near the Dutch Harbor airport
KM20039	<i>Pumilosphaera</i>		
KM020039	<i>Pumilosphaera acidophila</i>	SAG 15.91	Italy: Napoli, Pozzuoli solfatara at Pisciarelli, freshwater
AJ439399	<i>Pumilosphaera protothecoides</i> var. <i>acidicola</i>	strain 124	Italy: Pisciarelli, Campania, freshwater, pH 2.0
AF388378	<i>Radiococcus polycooccus</i>	SAG 217-1c	UK: Botanical Garden University of. Cambridge, freshwater
AJ311640	<i>Raphidonema pyrenoidifera</i>	CCAP 470/5	Antarctica: Chapman Ridge, soil
Z47997	<i>Rexenia paucicellulare</i>	SAG 463-1	Switzerland: Basel, Botanical Garden University Basel, Victoria green house, small basin, stagnant water
Z47998	<i>Rexenia sarcinoidea</i>	UTEX 1710	USA: Texas, Bastrop, Bastrop National Park, soil
KM268886	<i>Roholtiella bashkiriorum</i>	RU9	Russia: Republic of Bashkortostan, Bolsheustikinskoye, meadow land, soil
KM268888	<i>Roholtiella edaphica</i>	LG-S11	Russia: Republic of Bashkortostan, forb-grass steppes near Sibay city, soil
AM087962	<i>Sarcinofilum mucosum</i>	SAG 24.93	USA: Texas, Llano Co., shallow temporary pool in granite rock
MF034648	<i>Sarcinofilum mucosum</i>	SAG 4.90	Antarctica: Prinzess Elizabeth Land, Vestfold Hills, freshwater
HG514422	<i>Scenedesms rubescens</i>	SAG 5.95	France: near Bordeaux, from a culture of a brown alga
AY510466	<i>Scenedesmus dissociatus</i>	UTEX 1537	
AB055801	<i>Scenedesmus littoralis</i>		
X74002	<i>Scenedesmus rubescens</i>	CCAP 232/1	
JN385286	<i>Schizothrix arenaria</i>	HA4233-MV5 clone p5BA	USA: Oahu, Hawaii, Kawai Nui Marsh Nature Preserve, Kailua, mud puddle in a ditch
MH176132	<i>Scotiellopsis reticulata</i>	FACHB-2317	
AF334700	<i>Scytonema hyalinum</i>	clone 144-3C + 159-3	USA: Paradise Range, California, soil
KM020086	<i>Spongiochloris excentrica</i>	SAG 280-1	USA: Tennessee, from soil near Rock Island, Caney Fork river
KY086473	<i>Spongiococcum tetrasporum</i>	ACSSI 120	USA: Soil from a cotton field
KM020135	<i>Spongiococcum tetrasporum</i>	SAG 29.95	USA: Alabama, Green Country, soil from cotton field
FR865740	<i>Sporotetras polydermatica</i>	CCAP 31/5	UK: Windermere, Cumbria, England, freshwater

AF218371	<i>Stenomitos</i>		
MH688849	<i>Stenomitos</i> sp.	RU-0-2	Germany: Baabe, Ruegen, biocrust, sand dunes, Baltic Sea coast
AF218371	<i>Stenomitos tremulus</i>	UTCC 471	Canada: Northwest territories
AM412751	<i>Stichococcus chloranthus</i>	UTEX 315	Germany: Bernburg/Anhalt
GU017650	<i>Symbiochloris reticulata</i>	SAG 53.87	Spain: Tenerife, Roque Chinoté, phycobiont of lichen <i>Lobaria pulmonaria</i> var. <i>meridionalis</i>
GU017646	<i>Symbiochloris symbiontica</i>	SAG 2099	Japan: Geihoku-cho, Hiroshima-Pref. , surface of lichen <i>Graphis</i> sp.
KM020026	<i>Tetracystis aplanospora</i>	SAG 91.80	Cuba: soil near Havana
KM020030	<i>Tetracystis diplobionticoidea</i>	SAG 33.95	USA: AZ, Apache Junction, arid soil
KM020076	<i>Tetracystis dissociata</i>	SAG 207-1	Switzerland: soil from Schweiz Nationalpark
KM020075	<i>Tetracystis illinoisensis</i>	SAG 93.80	USA: IL, Effingham, from petri dish exposed to air from an automobile
KM020017	<i>Tetracystis pampae</i>	SAG 22.95	Italy: South Tyrol, Pitschberg, spoil from Dolomites
JN903997	<i>Tetracystis pampae</i>	SAG 96.80	USA: TX, Pampa, soil from flower-bed
KM020029	<i>Tetracystis sarcinales</i>	SAG 19.94	former Yugoslavia: soil from Isle of Lavsa
KM020024	<i>Tetracystis tetraspora</i>	SAG 98.80	Cuba: soil from Havana
JN968583	<i>Tetracystis texensis</i>	SAG 99.80	USA: Texas, Travis Co., soil from Pilot Knob
MH703775	<i>Tetradasmus arenicola</i>	SAG 2564	Ukraine: Danube Delta Biosphere Reserve, Kiliya district, Odessa oblast, biocrust, baltic sea coast
MH703774	<i>Tetradasmus arenicola</i>	WD-1-6	Germany: Warnemünde, biocrust, sand dunes, Baltic sea coast
AY510468	<i>Tetradasmus bajacalifornicus</i>	BCP-LG2-VF16	USA: Sierra San Pedro Martir of Baja California, Mexico, decomposed granite sandy soil
HQ246450	<i>Tetradasmus bajacalifornicus</i>	ZA1-7	South Africa: 6 K N of Klawer along N7
AY510474	<i>Tetradasmus deserticola</i>	BCP EM2-VF3	USA: Sierra San Pedro Martir of Baja California, Mexico, decomposed granite sandy soil
AY510471	<i>Tetradasmus deserticola</i>	BCP-SNI-2	USA: San Nicolas Island, California, soil
HG514429	<i>Tetradasmus distendus</i>	SAG 2003	Germany: Berlin, Lake Havel (freshwater)
FR865722	<i>Tetradasmus incrassatulus</i>	CCAP 276/43	Peru: Lake Yanayacu (freshwater)
FR865731	<i>Tetradasmus obliquus</i>	CCAP 276/52	New Zealand
MG022741	<i>Tetradasmus obliquus</i>	276/3C	Germany: Marburg, freshwater
FR865726	<i>Tetradasmus obliquus</i>	CCAP 276/49	Finnland: Lake Tuomiojaervi, Jyvaeskylae
HG514426	<i>Tetradasmus raciborskii</i>	CCAP 276/35	Germany: Lake Steinhuder Meer (freshwater)
HG514430	<i>Tetradasmus wisconsinensis</i>	SAG 22.81	Peru: Dpto. Ancash, Laguna Pataccocha
DQ275461	<i>Tetrastichococcus jenerensis</i>	SAG 2138	Malaysia: Kelantan, Kampong Kuala Jenera, surface soil crust on unidentified tree base in a secondary lowland rainforest, 400m a.s.l.

JQ083654	<i>Tolypothrix campylonemoides</i>	FI5-MK38 clone p10D	USA: Fort Irwin NTC, San Bernadino Co, California, sand
GQ287651	<i>Tolypothrix distorta</i>	SAG 93.79	Spain: Mallorca, from a south-exposed wall of porous stones
JQ083651	<i>Tolypothrix tenuis</i> f. <i>terrestris</i>	UFS-BI-NPMV- 1A2-F06 clone p13E	USA: Utah, foothills of the Onaquee Mountains, arid soil after a burn
EU123942	<i>Trebouxia aggregata</i>	SAG 219-1d	phycobiont of lichen <i>Xanthoria parientina</i>
Z21553	<i>Trebouxia asymmetrica</i>	SAG 48.88	Spain: Catalunya, Sa. de Roses, roadside at the street to El Port de la Selva, phycobiont of lichen <i>Diploschistes albescens</i>
EF429297	<i>Trichocoleus badius</i>	CRS-1	USA
KF307604	<i>Trichocoleus desertorum</i>	ATA4-8-CV2 clone ACE	Chile: biocrust in Atacama Desert, desert soil
MT078171	<i>Tritostichococcus solitus</i>	SAG 2406	Germany: tufa-forming karstwater stream "Deinschwanger Bach", western margin of the Franconian Alb, biofilm on rock surface
MF034653	<i>Ulothrix zonata</i>	SAG 38.86	
AY278217	<i>Ulothrix zonata</i>	UTEX 745	USA: Lake Michigan (freshwater)
AY303586	<i>Ulva californica</i>	FH-3.2	USA: San Juan Island, Washington, drift, False Bay
HQ219374	uncultured Chlorophyta clone	AY2009A8	France: Lake Pavin or Lake Aydat (freshwater)
AB058345	unicellular ulvophyte	MBIC10446	
AY476821	<i>Urospora neglecta</i>	Seward 8	USA: Seward 8, Alaska, marine
AY653741	<i>Urospora neglecta</i>	Un155	USA: Seppings I., Barkley, South Dakota
AY476809	<i>Urospora pencilliformis</i>	Boiler Bay	USA: Oregon, Boiler Bay
AY476808	<i>Urospora pencilliformis</i>	strain Point No Point	Canada: Point No Point, Vancouver, British Columbia
AY476819	<i>Urospora wormskioldii</i>	Park 1	Canada: Park 1, Halifax, Nova Scotia
AY476816	<i>Urospora wormskioldii</i>	strain Louisbourg 5	Canada: Louisbourg 5, Nova Scotia
FM958481	<i>Viridiella fridericana</i>	SAG 10.92	Italy: Campania, at Mefite di Ansanto, soil from sulphurous vents
AJ439401	<i>Viridiella fridericana</i>	strain 237	Italy: Mefite di Ansanto, Campania, freshwater, pH 2.0
MH499915	<i>Watanabea acidophila</i>	ISBAL-1011	Czech Republic: Sokolov mining district (Chodov), acidic soil-coal clays

MH499916	<i>Watanabea acidophila</i>	ISBAL-1112	Czech Republic: Sokolov mining district (Chodov), dump after coal mining, acidic soil- volcanic ashes (pH 3.5)
MH499914	<i>Watanabea alpicola</i>	FG2-10/3	Germany: forest soil
MH499913	<i>Watanabea alpicola</i>	SAG 2580	Switzerland: Unterengadin, soil
MH499912	<i>Watanabea patagonica</i>	CCAP 6091/1	Argentina: Patagonia, Acid Lake Caviahue
FM958480	<i>Watanabea reniformis</i>	SAG 211-9b	UK: West Humble, Dorking, garden basin
