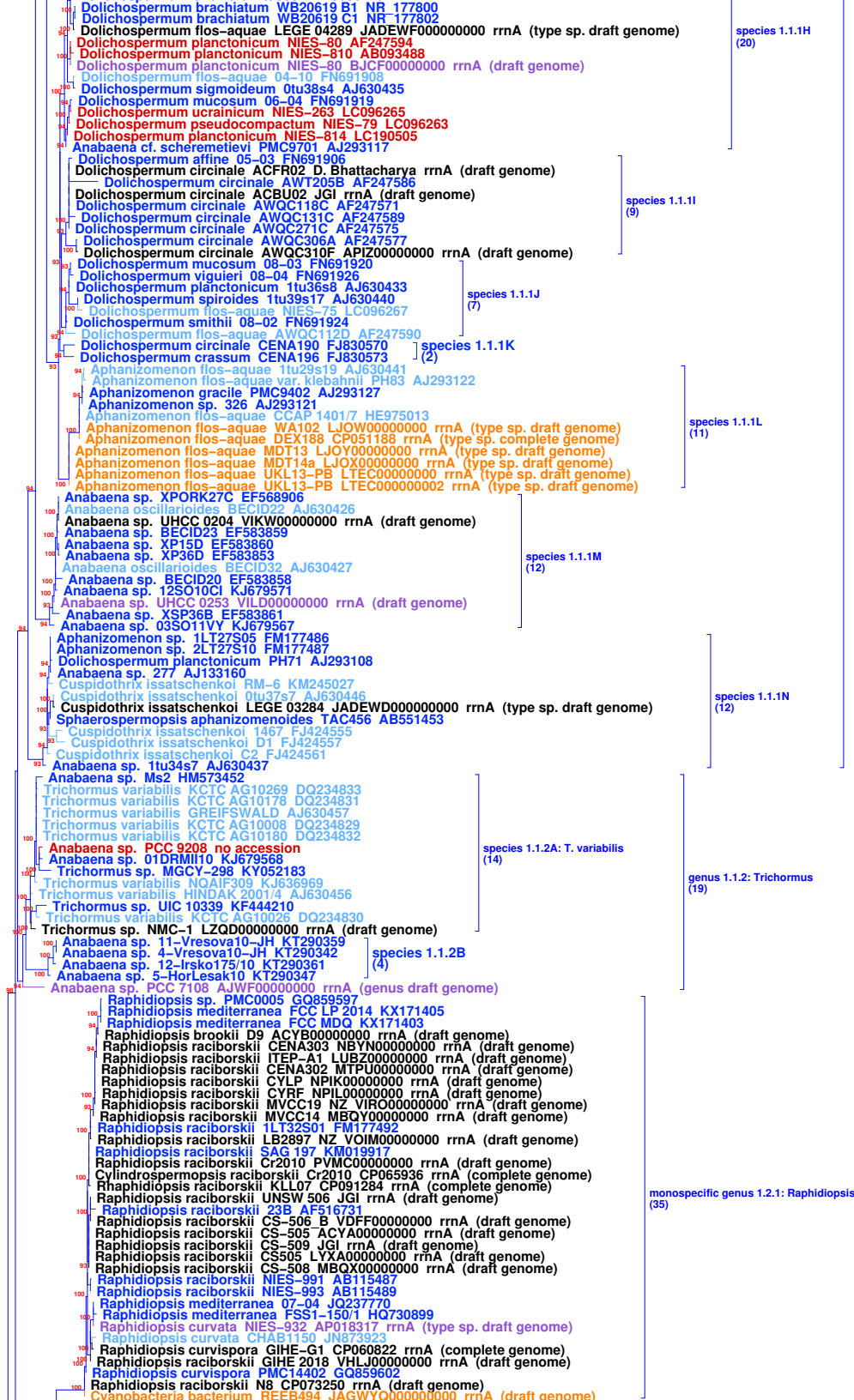


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 Dolichospermum cf. lemmermannii PH262 AJ293114  
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 Aphanizomenon gracile SAG 3179 KM019948  
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 Aphanizomenon gracile NH-5 AY196086  
 Anabaena sedovii ACCS 058 GU434227 species 1.1.1D (2)  
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 Dolichospermum macrosporum PMC9301 AJ293115  
 Dolichospermum circinale 04-26 AM940219  
 Dolichospermum solitarium CCAP 1403/27 HF678496  
 Dolichospermum spiroides PMC9403 AJ293116  
 Dolichospermum cf. crassum 1tu27s7 AJ630413  
 Dolichospermum circinale 1tu30s11 AJ630416  
 Dolichospermum brachiatum WB20619 B1 NR 177800  
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 Dolichospermum mucosum 06-04 FN691919  
 Dolichospermum ukrainicum NIES-263 LC096265  
 Dolichospermum pseudocompactum NIES-79 LC096263  
 Dolichospermum planctonicum NIES-814 LC190505



species 1.1.1H  
(20)

species 1.1.1I  
(9)

species 1.1.1J  
(7)

species 1.1.1K  
(2)

species 1.1.1L  
(11)

species 1.1.1M  
(12)

species 1.1.1N  
(12)

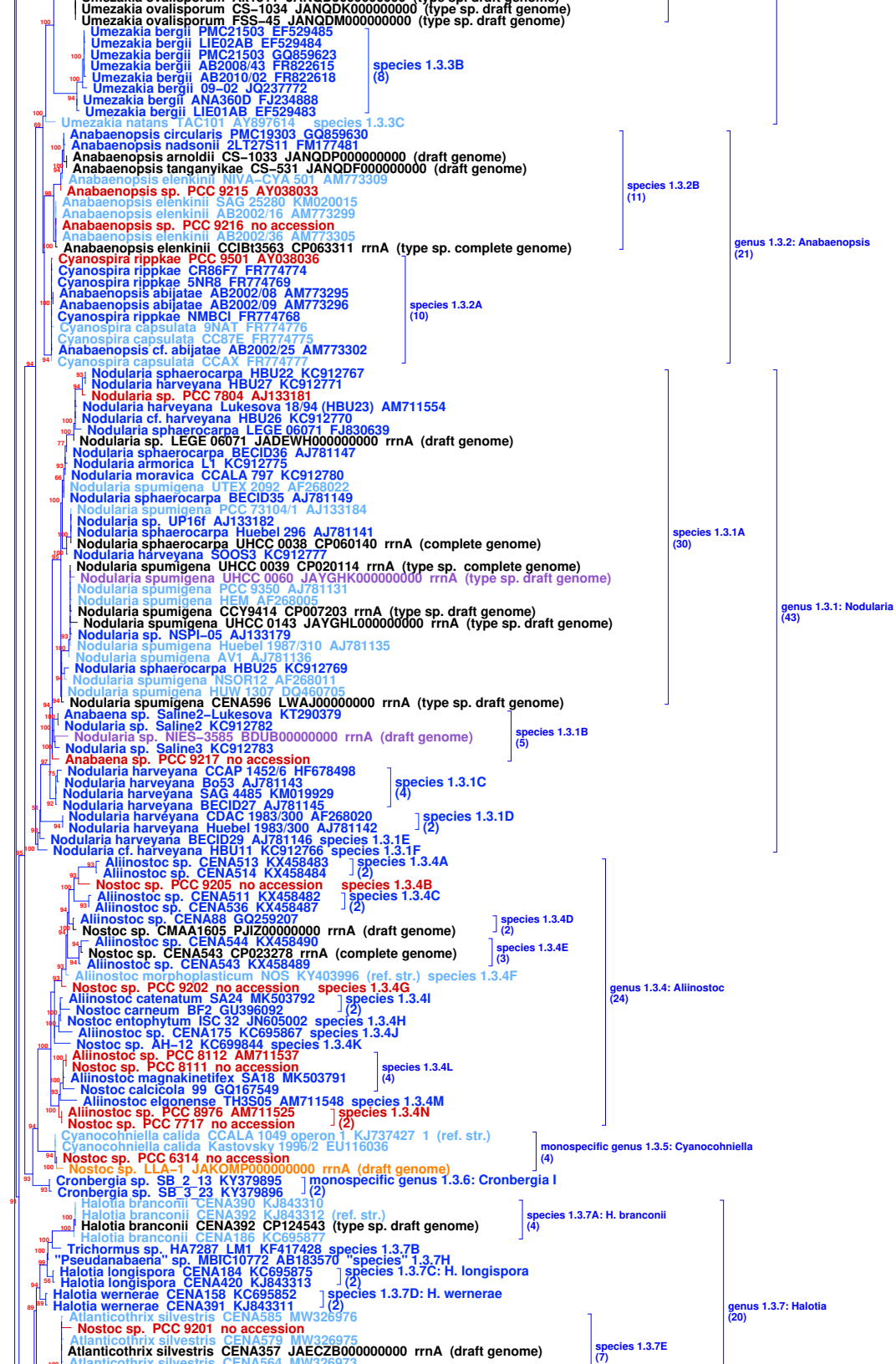
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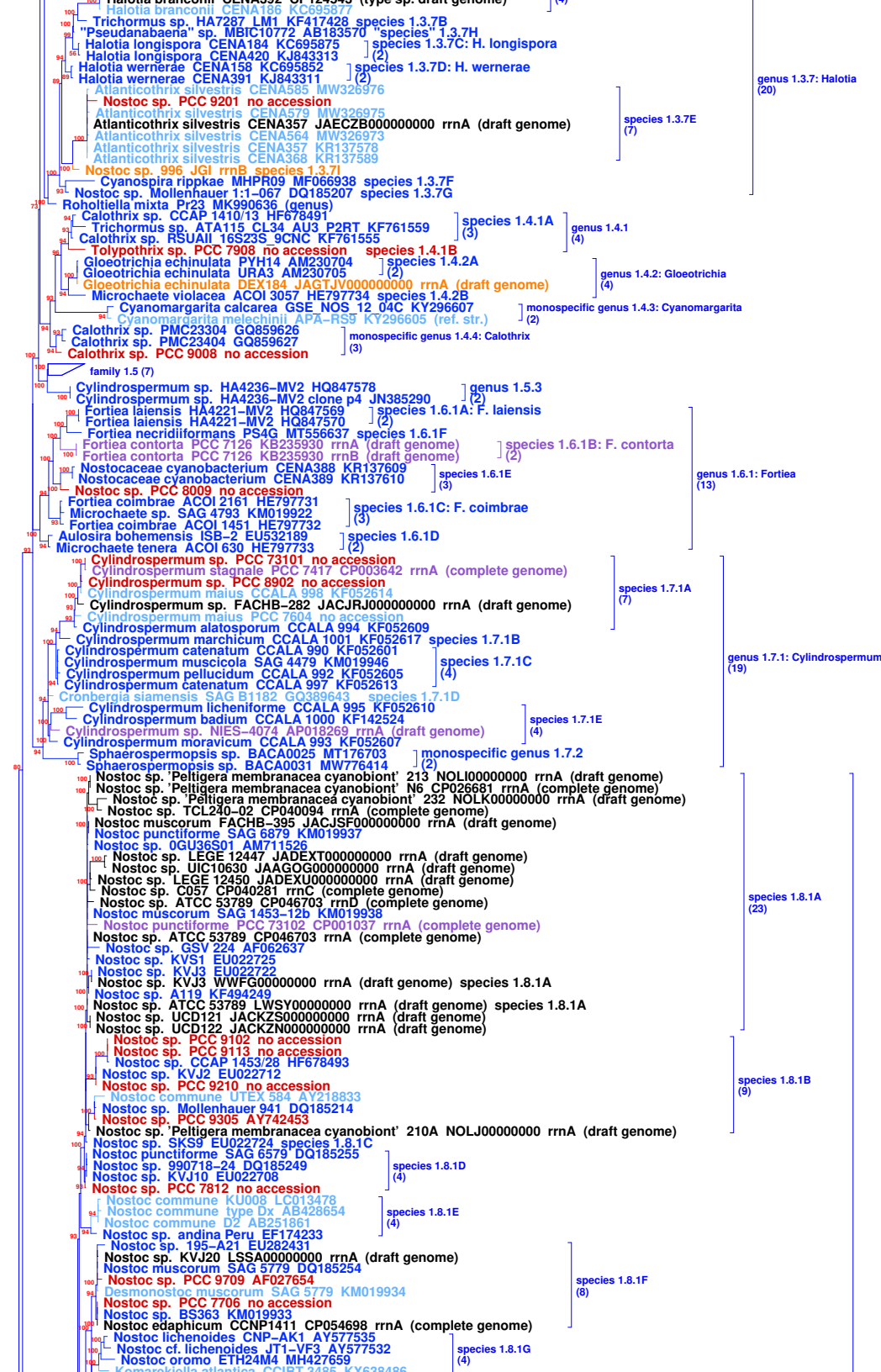
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(19)

species 1.1.2B  
(4)

monospecific genus 1.2.1: *Raphidiopsis*  
(35)







genus 1.3.7: Halotia (20)

species 1.3.7E (7)

genus 1.4.1 (4)

genus 1.4.2: Gloeotrichia (4)

monospecific genus 1.4.3: Cyanomargarita (2)

monospecific genus 1.4.4: Calothrix (3)

family 1.5 (7)

genus 1.5.3 (2)

species 1.6.1A: F. laiensis (2)

species 1.6.1B: F. contorta (2)

species 1.6.1E (3)

species 1.6.1C: F. coimbrae (3)

species 1.6.1D (2)

species 1.7.1A (7)

genus 1.7.1: Cylandrospermum (19)

species 1.7.1E (4)

monospecific genus 1.7.2 (2)

species 1.8.1A (23)

species 1.8.1B (9)

species 1.8.1D (4)

species 1.8.1E (4)

species 1.8.1A (4)

species 1.8.1C (4)

species 1.8.1D (4)

species 1.8.1E (4)

species 1.8.1A (4)

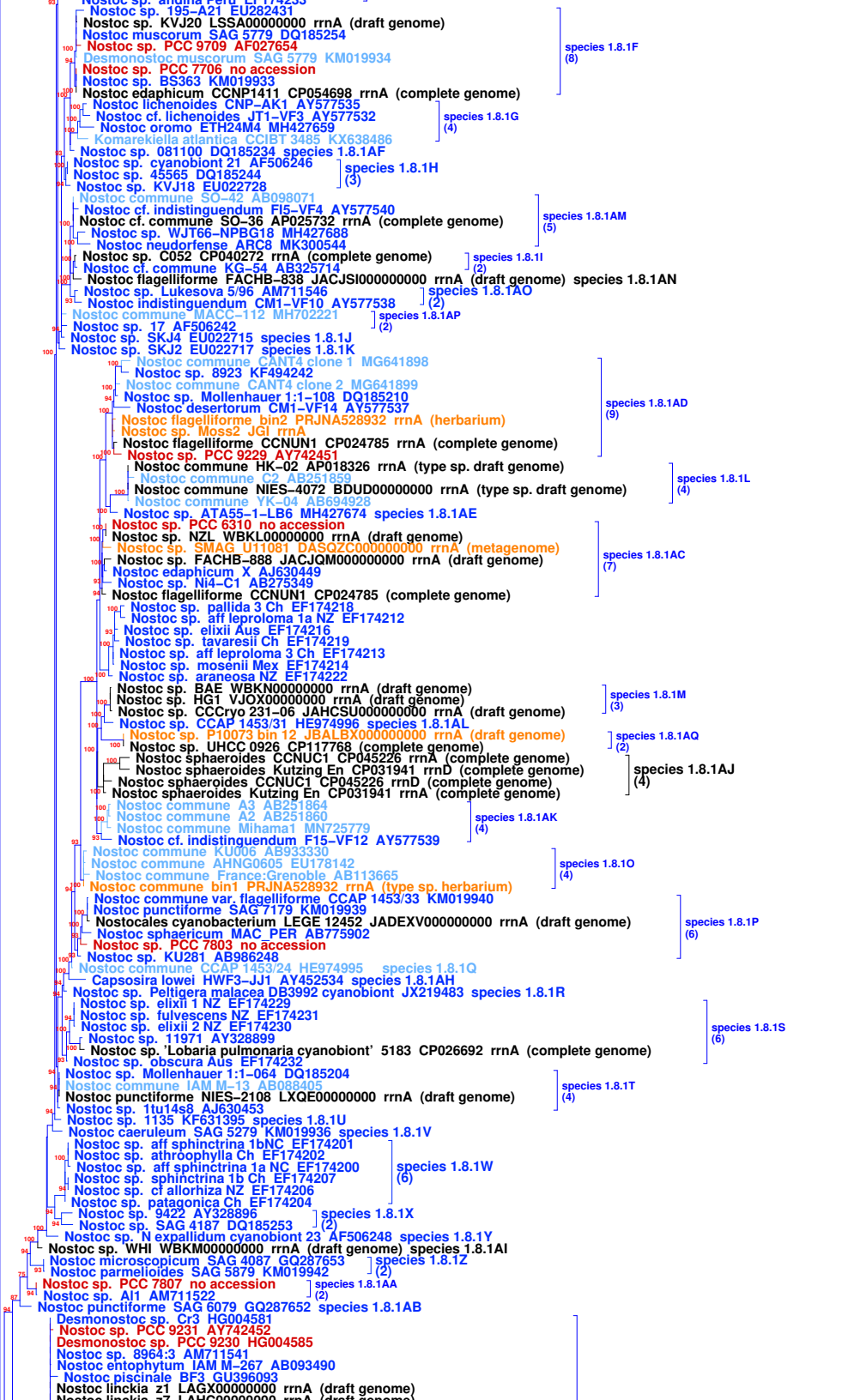
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species 1.8.1D (4)

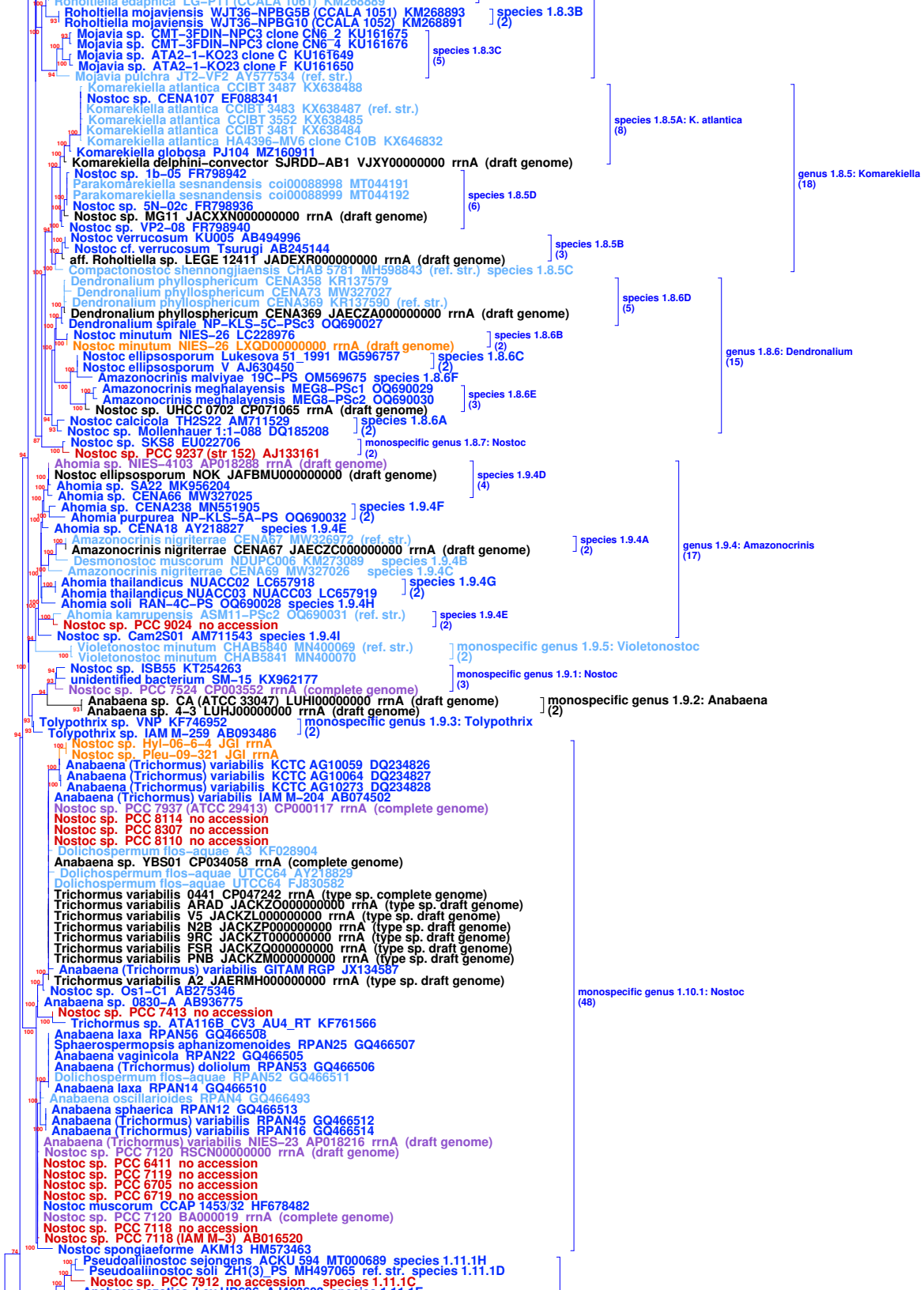
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species 1.8.1G (4)

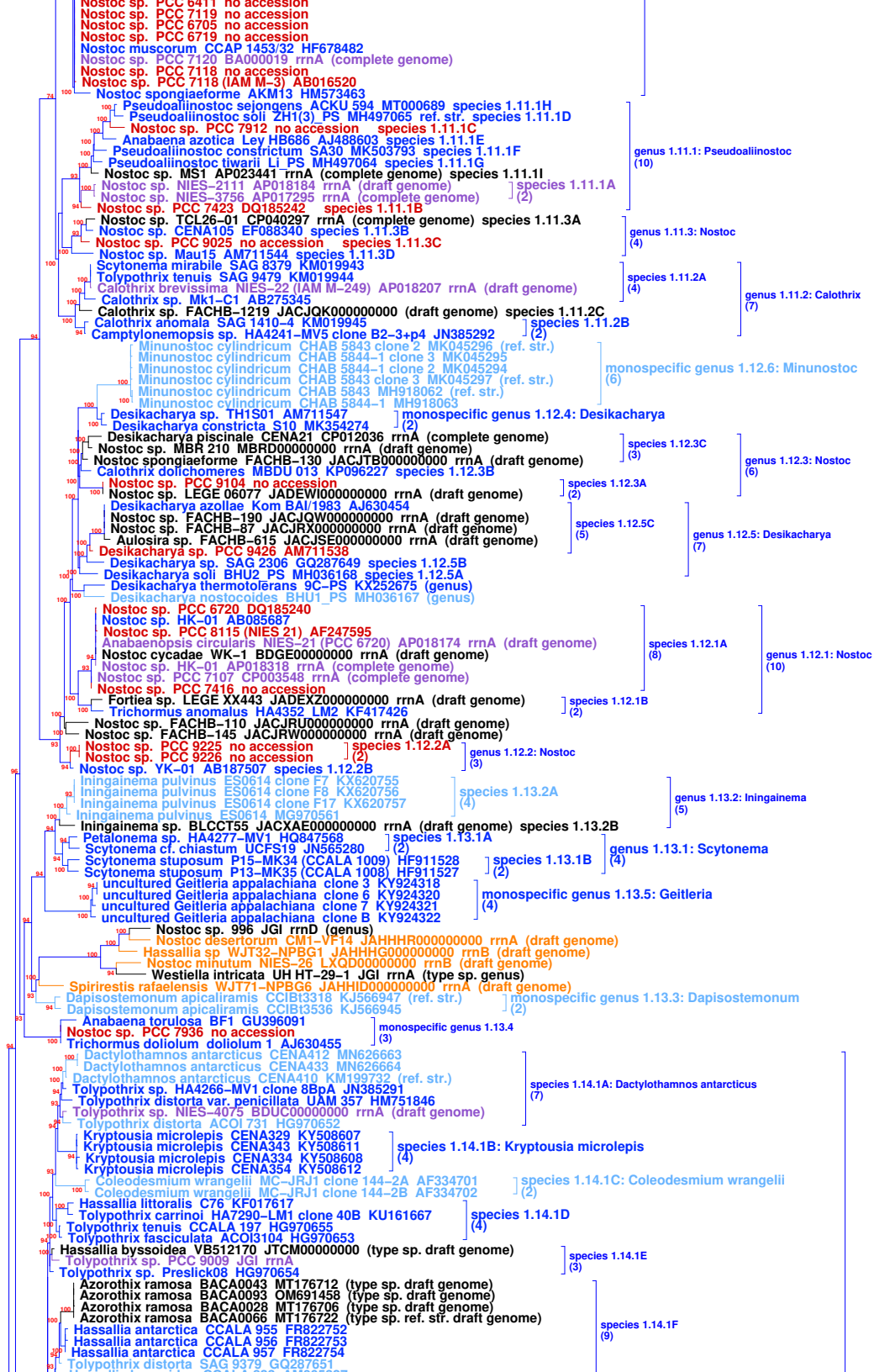


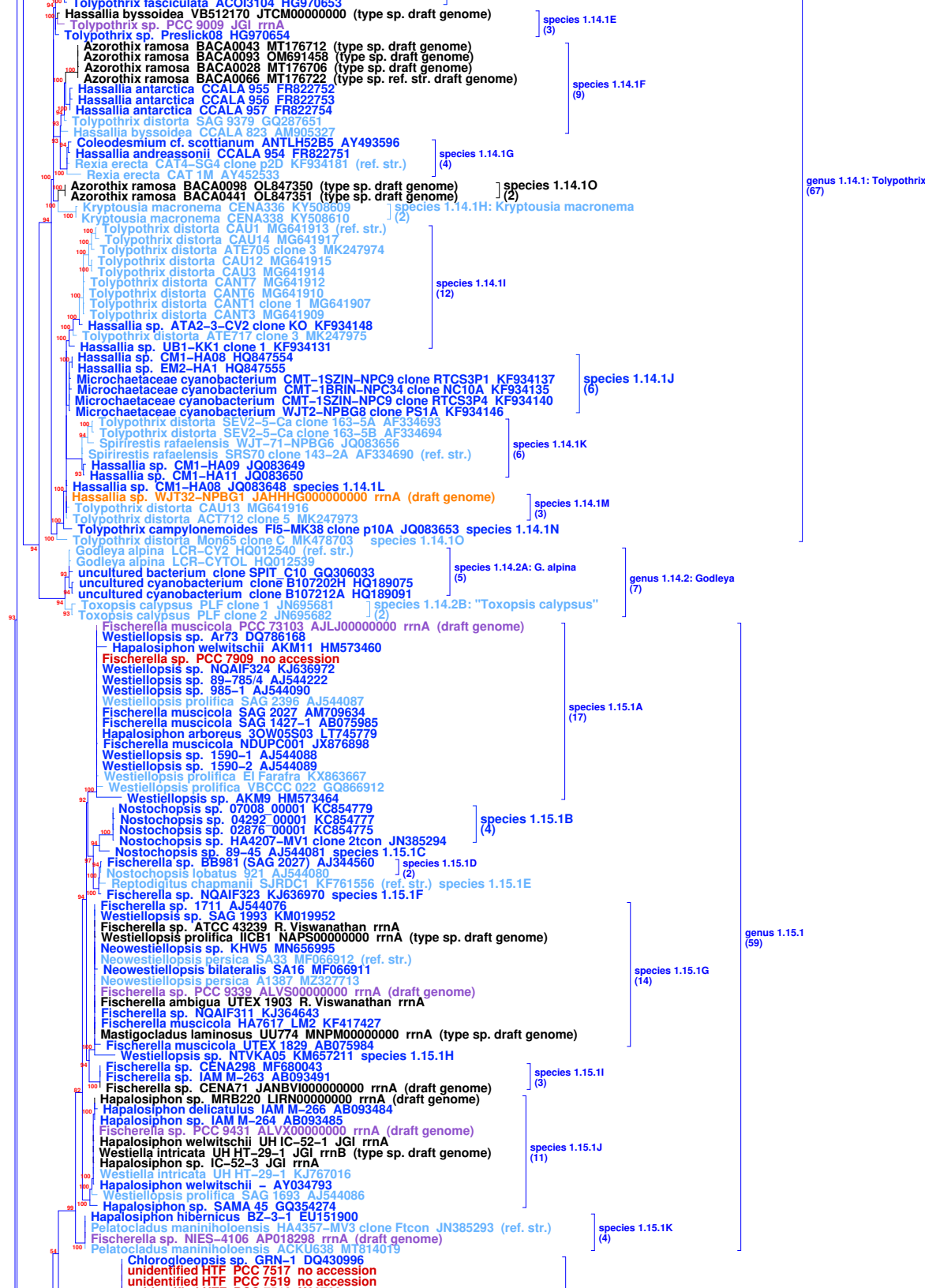
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 Nostoc sp. A11 AM711522 (2)  
 Nostoc punctiforme SAG 6079 GQ287652 species 1.8.1AB  
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 Nostoc sp. PCC 9231 AY742452  
 Desmonostoc sp. PCC 9230 HG004585  
 Nostoc sp. 8984:3 AM711541  
 Nostoc entophyllum IAM M-267 AB093490  
 Nostoc piscinale BF3 GU396093  
 Nostoc linckia z1 LAGX00000000 rrnA (draft genome)  
 Nostoc linckia z7 LAHC00000000 rrnA (draft genome)  
 Nostoc linckia z18 LAHJ00000000 rrnA (draft genome)  
 Nostoc sp. Moss3 JGI rrnA  
 Nostoc linckia z6 LAHB00000000 rrnA (draft genome)  
 Nostoc linckia z2 LAGY00000000 rrnA (draft genome)  
 Nostoc linckia z4 LAHA00000000 rrnA (draft genome)  
 Nostoc linckia z8 LAHD00000000 rrnA (draft genome) species 1.8.2E (26)  
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 Nostoc linckia z3 LAGZ00000000 rrnA (draft genome)  
 Nostoc linckia z14 LAHG00000000 rrnA (draft genome)  
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 Nostoc sp 2RC JACKZU0000000000 rrnA (draft genome)  
 Nostoc punctiforme FACHB-252 JACJTC0000000000 rrnA (draft genome)  
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 Dolichospermum flos-aquae UTEX 2557 DQ234825  
 Dolichospermum flos-aquae UTEX 2391 DQ234824  
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 Nostoc sp. MV6 FJ705808 (2)  
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 Nostoc sp. FACHB-857 JACJTK0000000000 rrnA (draft genome) (2)  
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 Desmonostoc sp. PCC 6302 HG004582  
 Desmonostoc sp. Det1 AM711534  
 Nostoc sp. FACHB-973 JACJS0000000000 rrnA (draft genome)  
 Nostoc insulare SAG 5479 KM019927  
 Desmonostoc muscorum LEGE 12446 JAEXS0000000000 rrnA (type sp. draft genome) species 1.8.2A: D. muscorum (13)  
 Desmonostoc muscorum Lukesova 2/91 AM711524  
 Desmonostoc muscorum I (NIVA-CYA 817) AJ630451  
 Nostoc calcicola SAG 1453-1 KM019926  
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 Desmonostoc muscorum Ind33 HM573462 species 1.8.2B (4)  
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 Anabaena oryzae AKM15 HM573456  
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 Nostoc sp. Cc2 AM711532  
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 Tolypothrix sp. PCC 7504 AM230669  
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 Tolypothrix sp. LEGE 11397 JAEXL0000000000 rrnA (draft genome)  
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 Tolypothrix tenuis MBDU 609 KT818635  
 Aulosira laxa NIES-50 AP018307 rrnA (type sp. draft genome)  
 Tolypothrix tenuis PCC 7101 (NIES-37) AP018248 rrnA (draft genome)  
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 Microchaete diplosiphon CCALA 811 HE797729  
 Nostoc carneum NIES-2107 (IAM M35) AP018180 rrnA (draft genome) species 1.8.4E (2)  
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 Constrictifilum karadense MKW3 MW374468 (ref. str.) species 1.8.4G  
 Calothrae ciliaris CCALA 1012 NR 117712 (ref. str.) species 1.8.4G  
 Calothrix sp. NIES-2100 AP018178 rrnA (draft genome) species 1.8.4D  
 Calochaete sp. UIC 10574 MT174334 species 1.8.4I  
 Nostoc sp. CENA239 MN551906 species 1.8.4H  
 Tolypothrix sp. FACHB-123 JACJRE0000000000 (draft genome) species 1.8.4J  
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 Tolypothrix sp. PCC 6601 no accession  
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 Roholtiella fluviatilis UAM 332 HM751847  
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 Roholtiella fluviatilis RU7 (CCALA 1058) KM268885  
 Roholtiella fluviatilis UAM 334 HM751849  
 Roholtiella fluviatilis UAM 337 HM751851 species 1.8.3A (17)  
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 Roholtiella edaphica JOH4 (CCALA 1062) KM268877  
 Roholtiella edaphica JOH39 (CCALA 1063) KM268878 (ref. str.)  
 Roholtiella edaphica RU1 (CCALA 1055) KM268879  
 Roholtiella bashkiriorum RU6 (CCALA 1057) KM268893  
 Roholtiella bashkiriorum RU9 (CCALA 1059) KM268886  
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 Mojavia sp. AT42-1-KO23 clone F KU161650  
 Mojavia pulchra JT2-VF2 A7077534 (ref. str.)  
 Komarekiella atlantica CCIBT 3487 KX638488  
 Nostoc sp. CENA107 EF088341  
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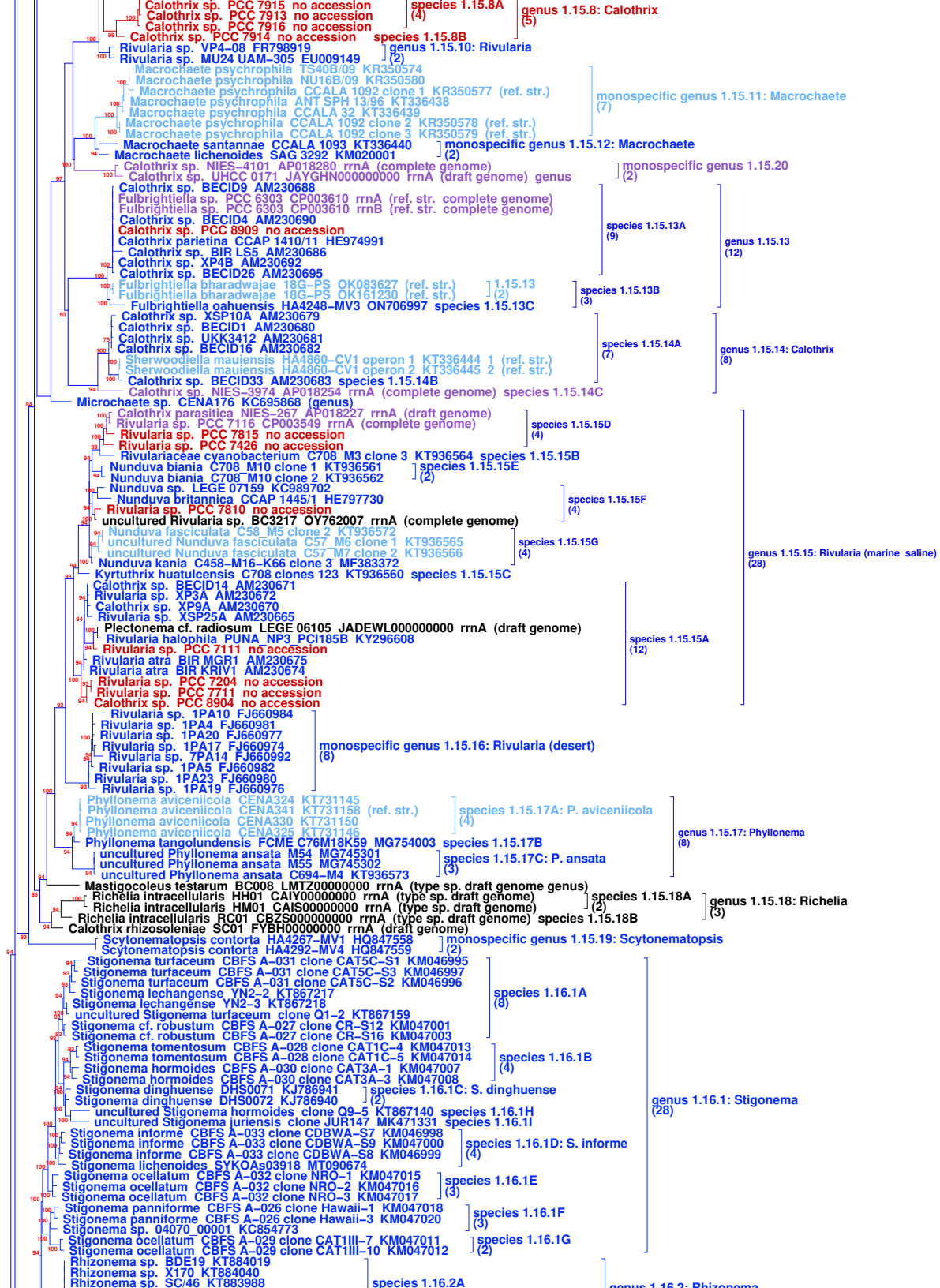


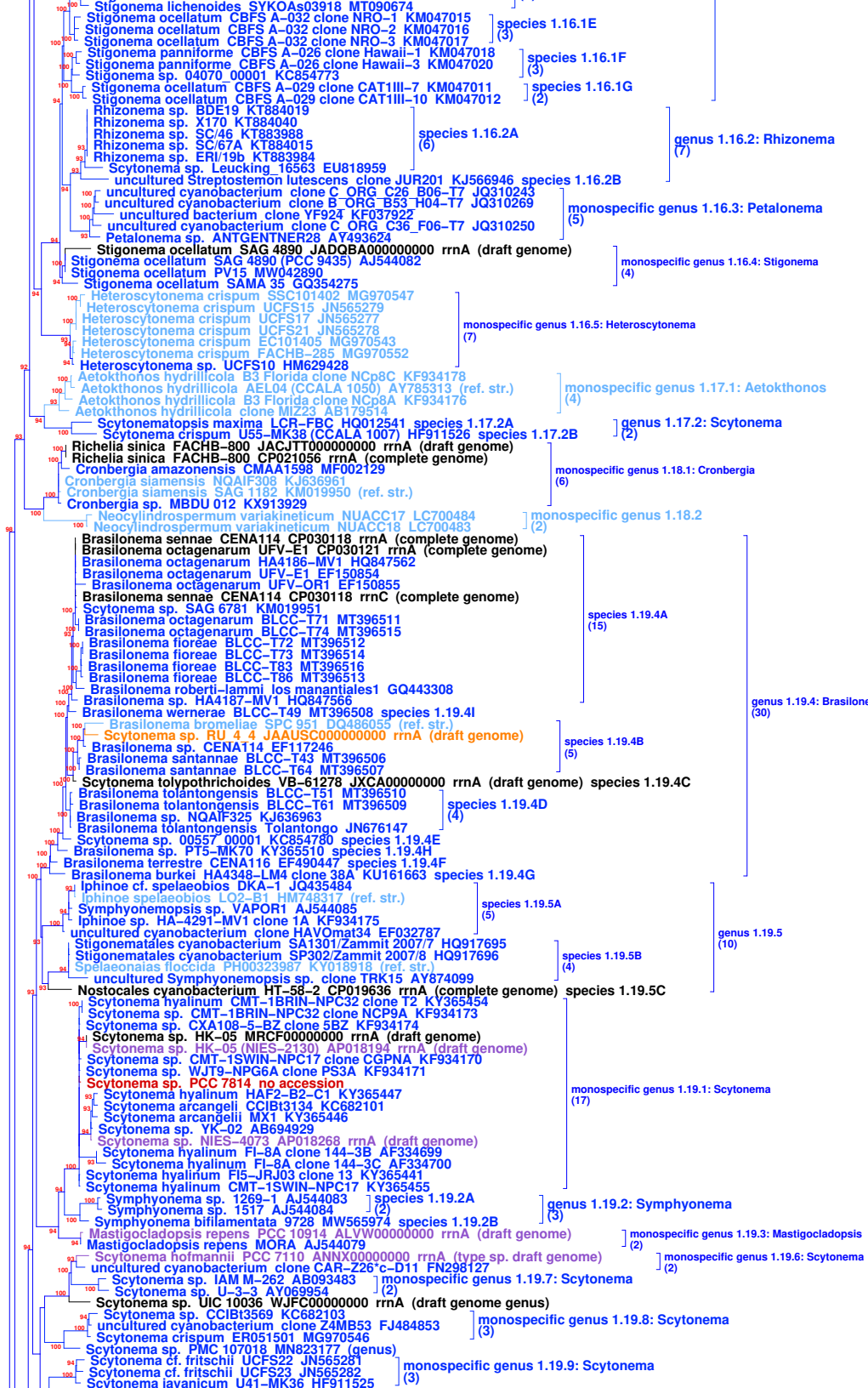














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uncultured cyanobacterium clone Z4MB53 FJ484853 ] monospecific genus 1.19.9: Scytonema

Scytonema cf. fritschii UCF522 JN565281 ] monospecific genus 1.19.9: Scytonema

Scytonema cf. fritschii UCF523 JN565282 ] monospecific genus 1.19.9: Scytonema

Scytonema javanicum U41-MK36 HF911525 ] monospecific genus 1.19.10: Petalonema

Petalonema alatum CBFS A-035 clone SK-11 KM047021 ] monospecific genus 1.19.10: Petalonema

Petalonema alatum CBFS A-035 clone SK-12 KM047022 ] monospecific genus 1.19.10: Petalonema

Scytonema hyalinum HAF2B2c1 clone P11 KY365485 ] monospecific genus 1.19.10: Petalonema

Plasmid 4 Scytonema sp. HK-05 (NIES-2130) plasmid AP018198 rrnE (complete genome)

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Scytonema sp. HAF2-c1 clone p11A HQ847553 ] monospecific genus 1.19.11: Scytonema

Scytonema sp. CMT-1BRIN-NPC39 clone CGSFD1 KF934156 ] monospecific genus 1.19.11: Scytonema

Scytonema hyalinum WJIT9-NPBG6A KY365499 ] monospecific genus 1.19.11: Scytonema

Scytonema sp. CMT-1BRIN-NPC31 clone P11 KF934153 ] monospecific genus 1.19.11: Scytonema

Scytonema sp. WJIT73-NPBGC clone PS12B KF934167 ] monospecific genus 1.19.11: Scytonema

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Scytonema millei VB511283 JTJC00000000 rRNA (draft genome)

Scytonema arcangelii MX1 KY365486 ] monospecific genus 1.19.12: Ewamiania

Ewamiania thermalis TS0513 clone E4 KY781313 (ref. str.) ] monospecific genus 1.19.12: Ewamiania

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Chakia ciliosa CCALA 1015 KC875343 (ref. str.) ] monospecific genus 1.19.13: Chakia

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uncultured cyanobacterium clone B109204H HQ188995 species 2.2.3E ] species 2.2.3B

Crinalium epipsammum PCC 9333 CP003620 rRNA (complete genome) ] species 2.2.3A

Crinalium epipsammum SAG 2289 AB115964 ] species 2.2.3A

Crinalium magnum SAG 3487 AB115965 ] species 2.2.3A

uncultured cyanobacterium clone B108212A HQ189052 ] species 2.2.3A

uncultured bacterium clone SINI971 HM127281 ] species 2.2.3A

Crinalium magnum Hg-6-6 MK211234 ] species 2.2.3C

Hormoscilla cf. pringsheimii Us-s-6-2 MH688842 ] species 2.2.3C

Starria zimbabweensis SAG 7490 AB115962 ] monospecific genus 2.2.4: Starria

uncultured bacterium clone LDXA-109 EU869561 ] monospecific genus 2.2.4: Starria

Ancylothrix terrestris 10PC KT819199 ] monospecific genus 2.2.1: Ancylothrix

Ancylothrix terrestris 12PC KT819201 ] monospecific genus 2.2.1: Ancylothrix

Ancylothrix terrestris 13PC KT819202 ] monospecific genus 2.2.1: Ancylothrix

Ancylothrix sp. D3o JAMXEX00000000 rRNA (draft genome) ] monospecific genus 2.2.1: Ancylothrix

Ancylothrix rivularis 8PC KT819197 (ref. str.) ] monospecific genus 2.2.2: Ancylothrix

Ancylothrix rivularis 9PC KT819198 ] monospecific genus 2.2.2: Ancylothrix

Ancylothrix rivularis 7PC KT819196 ] monospecific genus 2.2.2: Ancylothrix

Microcoleus sp. FACHB-672 JACJOU00000000 (draft genome)

Marmoreocella xerophila CATCB5 MT311247 (ref. str.) ] species 2.1.1A

Chamaesiphon minutus PCC 6605 CP003600 rRNA (complete genome) ] species 2.1.1A

Chamaesiphon sp. PCC 8308 no accession ] species 2.1.1A

Chamaesiphon polymorphus CCALA 037 PVWO00000000 rRNA (draft genome) ] species 2.1.1D

Chamaesiphon polonicus SAG 3287 KM019993 ] species 2.1.1D

Chamaesiphon subglobosus PCC 7430 AY170472 ] species 2.1.1E

Synechocystis sp. PCC 7809 no accession ] species 2.1.1E

Cyanoplacoma regulare UCFM PR KF264594 species 2.1.1C ] species 2.1.1C

Chamaesiphon investiens UAM 386 JQ070061 species 2.1.1B ] species 2.1.1B

uncultured cyanobacterium clone CBS2-75 JQ249823 (genus) ] species 2.1.1B

Komvophoron hindakii clone K9\_3P1 KJ140090 ] monospecific genus 2.1.2: Komvophoron

Komvophoron hindakii clone K9\_3P2 KJ140094 ] monospecific genus 2.1.2: Komvophoron

Komvophoron hindakii clone K9\_3P3 KJ140093 ] monospecific genus 2.1.2: Komvophoron

Komvophoron hindakii clone K9\_3P6 KJ140091 ] monospecific genus 2.1.2: Komvophoron

Komvophoron kgarii Wanggooliba Creek KC342459 (genus) ] monospecific genus 2.1.2: Komvophoron

Synechococcus sp. PCC 7901 no accession ] monospecific genus 2.1.3

Synechococcus sp. PCC 7902 AF216946 ] monospecific genus 2.1.3

Synechocystis sp. PCC 7903 no accession ] monospecific genus 2.1.3

uncultured clone CRYS SPR 10G KC357997 ] monospecific genus 2.1.3

Porphyrosiphon sp. FBCC-A1260 MW880693 ] monospecific genus 2.1.4: Porphyrosiphon

Porphyrosiphon sp. FBCC-A1265 MW880696 ] monospecific genus 2.1.4: Porphyrosiphon

Porphyrosiphon sp. FBCC-A1263 MW880694 ] monospecific genus 2.1.4: Porphyrosiphon

Porphyrosiphon sp. FBCC-A1264 MW880695 ] monospecific genus 2.1.4: Porphyrosiphon

Porphyrosiphon notarisii KHS17 LC331913 ] monospecific genus 2.1.4: Porphyrosiphon

Cyanosarcina radialis HA281-LM2 clone 42A KU161671 (genus)

Pycnacronema brasiliensis 46PC MF581660 ] species 3.1.20A: P. brasiliensis

Pycnacronema brasiliensis 46PC MF581662 ] species 3.1.20A: P. brasiliensis

Pycnacronema sp. B-Tom EU196618 ] species 3.1.20A: P. brasiliensis

Pycnacronema brasiliensis 45PC MF581661 (ref. str.) ] species 3.1.20A: P. brasiliensis

Pycnacronema marmoreum 42PC MF581658 species 3.1.20B ] species 3.1.20A: P. brasiliensis

Pycnacronema rubrum 43PC MF581659 species 3.1.20C ] species 3.1.20A: P. brasiliensis

Pycnacronema savannensis 49PC MF581663 species 3.1.20D ] species 3.1.20A: P. brasiliensis

Pycnacronema conicum 7PC MF581656 species 3.1.20E ] species 3.1.20A: P. brasiliensis

Pycnacronema edaphica CATCA7 MT311244 species 3.1.20G ] species 3.1.20A: P. brasiliensis

Pycnacronema arboriculum 41PC MF581657 ] species 3.1.20F ] species 3.1.20A: P. brasiliensis

Pycnacronema caatingensis CATCC2 MT311243 ] species 3.1.20F ] species 3.1.20A: P. brasiliensis

Microcoleus steenstrupii MOA2-MC2 clone 177-5A AF355389 ] species 3.1.8A: M. steenstrupii

Microcoleus steenstrupii USPC1-MC1 clone 173-1A AF355388 ] species 3.1.8A: M. steenstrupii

Microcoleus steenstrupii MOA1-MC4 clone 177-2A AF355390 ] species 3.1.8A: M. steenstrupii

Microcoleus paludosus SAG 1449-1a EF654090 species 3.1.8B ] species 3.1.8A: M. steenstrupii

Parifilum solicrustae SON57 MT664820 (ref. str. genus) ] species 3.1.8A: M. steenstrupii

Oscillatoriales cyanobacterium CYAN3 MT667356 (genus) ] species 3.1.7C: P. aerugineo-caeruleum

Phormidium aerugineo-caeruleum MED clone 17 JN382234 ] species 3.1.7C: P. aerugineo-caeruleum

Phormidium aerugineo-caeruleum MNZ clone 7 JN382237 ] species 3.1.7C: P. aerugineo-caeruleum

Phormidium aerugineo-caeruleum MED clone 31 JN382235 ] species 3.1.7C: P. aerugineo-caeruleum

Potamolinea aerugineo-caerulea 1PC KX001786 ] species 3.1.7D: P. aerugineo-caeruleum

Potamolinea aerugineo-caerulea 38PC KX001788 ] species 3.1.7D: P. aerugineo-caeruleum

Potamolinea sp. 35PC KX001794 ] species 3.1.7A

Potamolinea sp. 36PC KX001795 ] species 3.1.7A

Potamolinea sp. 34PC KX001793 ] species 3.1.7A

Potamolinea sp. 33PC KX001792 ] species 3.1.7A

Potamolinea magna 47PC KX001789 (ref. str.) species 3.1.7B ] species 3.1.7A

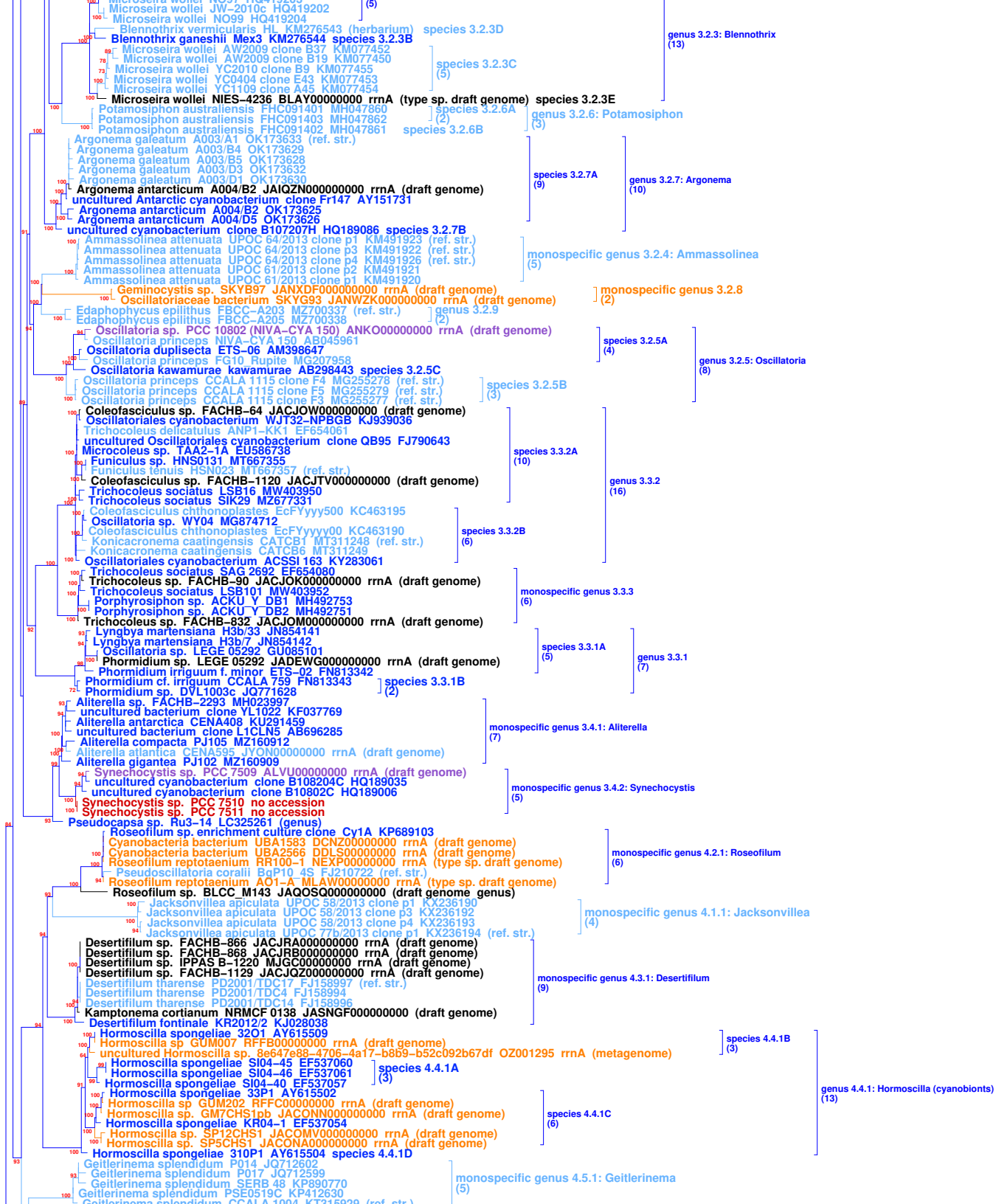
Microcoleus glaciei UTCC475 AF218374 ] species 3.1.7A

Phormidium guttravi ANIPFNDANT2 AY493598 ] species 3.1.7A









genus 3.2.3: *Blennothrix*  
(13)

species 3.2.3C  
(5)

species 3.2.3E

species 3.2.6: *Potamosiphon*  
(3)

species 3.2.6B

species 3.2.7A

genus 3.2.7: *Argonema*  
(10)

monospecific genus 3.2.4: *Ammassolinea*  
(5)

monospecific genus 3.2.8

genus 3.2.9

species 3.2.5A  
(4)

genus 3.2.5: *Oscillatoria*  
(8)

species 3.2.5B  
(3)

species 3.3.2A  
(10)

genus 3.3.2  
(16)

species 3.3.2B  
(6)

monospecific genus 3.3.3  
(6)

species 3.3.1A  
(5)

genus 3.3.1  
(7)

monospecific genus 3.4.1: *Aliterella*  
(7)

monospecific genus 3.4.2: *Synechocystis*  
(5)

monospecific genus 4.2.1: *Roseofilum*  
(6)

monospecific genus 4.1.1: *Jacksonvillea*  
(4)

monospecific genus 4.3.1: *Desertifilum*  
(9)

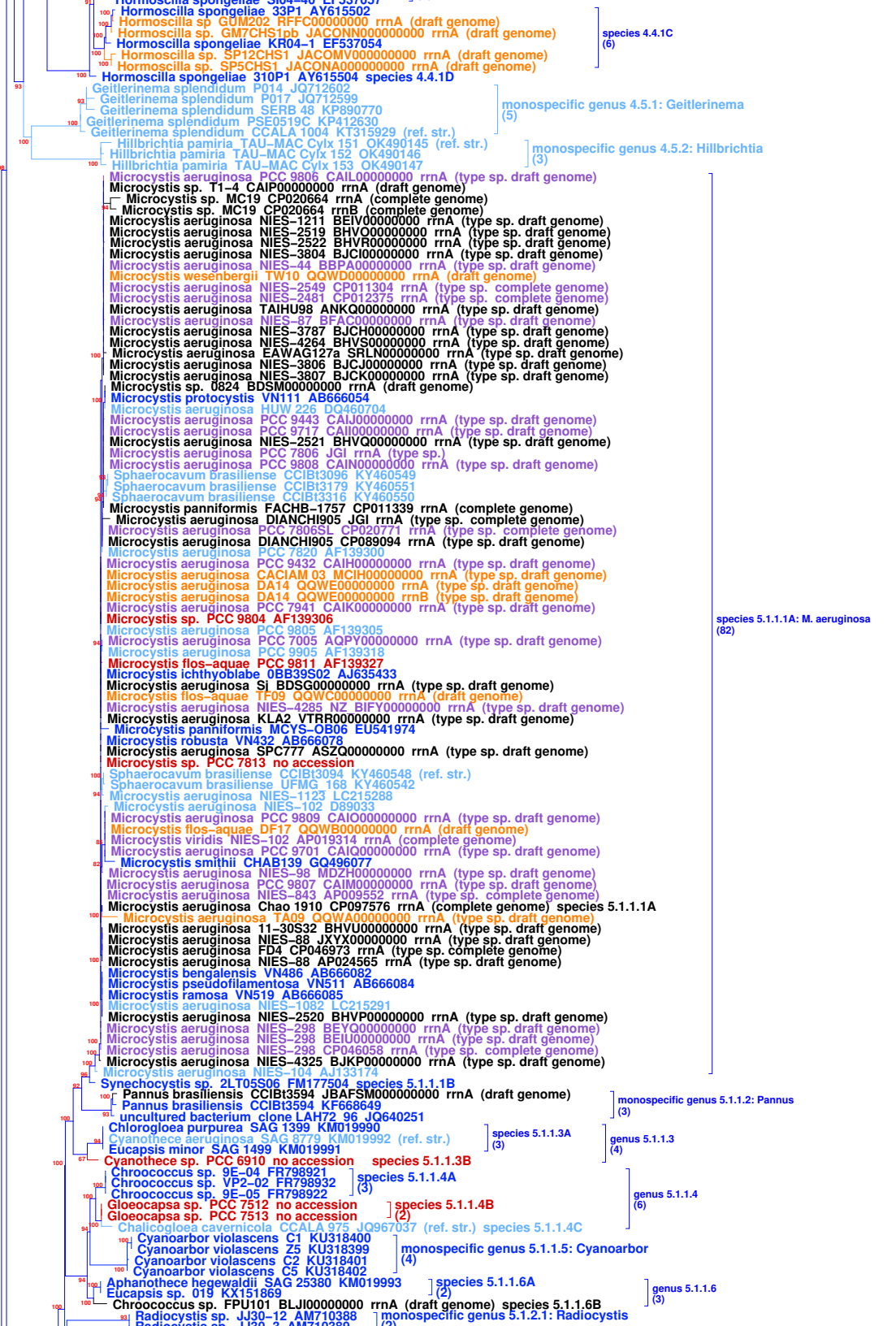
species 4.4.1B  
(3)

species 4.4.1A  
(3)

species 4.4.1C  
(6)

genus 4.4.1: *Hormoscilla* (cyanobionts)  
(13)

monospecific genus 4.5.1: *Geitlerinema*  
(5)



genus 4.4.1: *Hormosira* (cyanobionts) (13)

species 4.4.1C (6)

monospecific genus 4.5.1: *Geitlerinema* (5)

monospecific genus 4.5.2: *Hillbrichtia* (3)

species 5.1.1.1A: *M. aeruginosa* (82)

genus 5.1.1.1: *Microcystis* (83)

monospecific genus 5.1.1.2: *Pannus* (3)

species 5.1.1.3A (3)

genus 5.1.1.3 (4)

species 5.1.1.4A (3)

genus 5.1.1.4 (6)

species 5.1.1.4B (2)

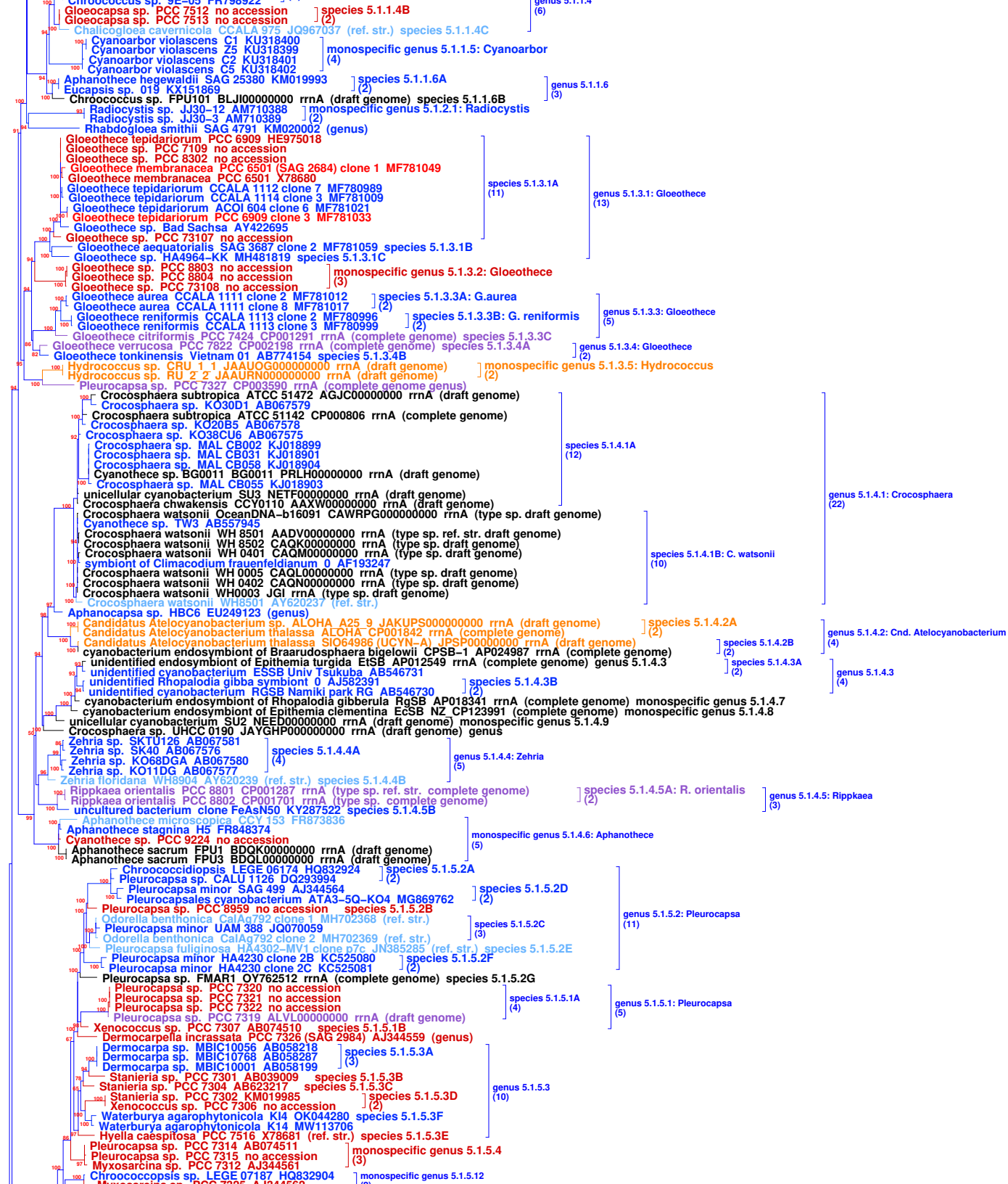
species 5.1.1.4C

monospecific genus 5.1.1.5: *Cyanoarbor* (4)

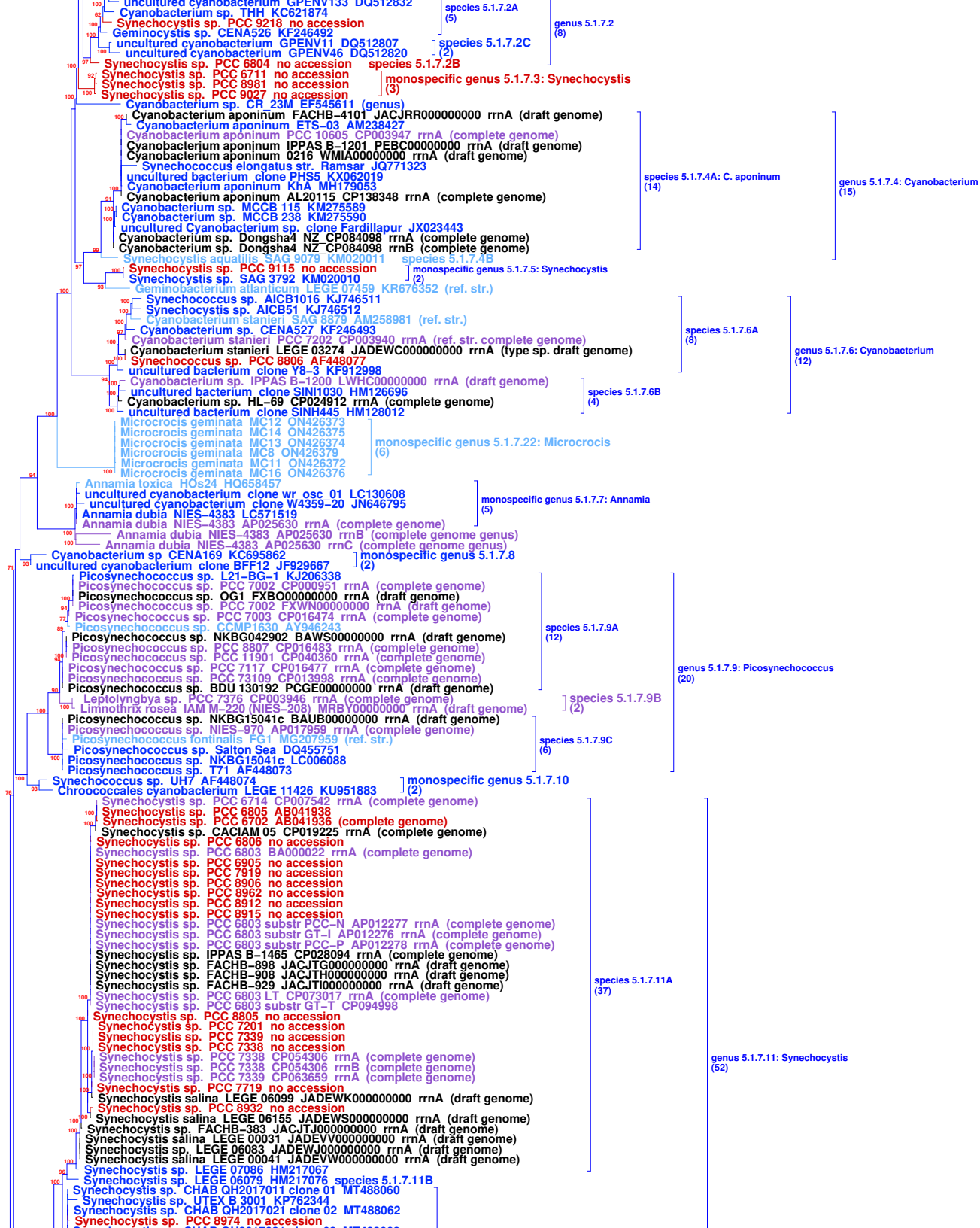
species 5.1.1.6A (2)

genus 5.1.1.6 (3)

monospecific genus 5.1.2.1: *Radiocystis*







uncultured cyanobacterium GPENV133 DQ512822  
Cyanobacterium sp. THH KC521874  
Synechocystis sp. PCC 9218 no accession  
Geminocystis sp. CENA526 KF246492  
uncultured cyanobacterium GPENV11 DQ512807  
uncultured cyanobacterium GPENV46 DQ512820  
Synechocystis sp. PCC 6804 no accession  
Synechocystis sp. PCC 6711 no accession  
Synechocystis sp. PCC 6981 no accession  
Synechocystis sp. PCC 9027 no accession

species 5.1.7.2A (5)  
species 5.1.7.2B (8)  
species 5.1.7.2C (2)  
species 5.1.7.2B (2)  
monospecific genus 5.1.7.3: Synechocystis (3)

Cyanobacterium sp. CR 23M EF545611 (genus)  
Cyanobacterium apoininum FACHB-4101 JACJRR000000000 rrnA (draft genome)  
Cyanobacterium apoininum ETS-03 AM238427  
Cyanobacterium apoininum PCC 10605 CP003947 rrnA (complete genome)  
Cyanobacterium apoininum IPPAS B-1201 PEB-C000000000 rrnA (draft genome)  
Cyanobacterium apoininum 0216 WMAI000000000 rrnA (draft genome)  
Synechococcus elongatus str. Ramsar JQ771323  
uncultured bacterium clone PH55 KX062019  
Cyanobacterium apoininum Kha MH179053  
Cyanobacterium apoininum AL20115 CP138348 rrnA (complete genome)

species 5.1.7.4A: C. apoininum (14)

genus 5.1.7.4: Cyanobacterium (15)

Cyanobacterium sp. MCCB 115 KM275589  
Cyanobacterium sp. MCCB 238 KM275590  
uncultured Cyanobacterium sp. clone Fardillapur JX023443  
Cyanobacterium sp. Dongsha4 NZ\_CP084098 rrnA (complete genome)  
Cyanobacterium sp. Dongsha4 NZ\_CP084098 rrnB (complete genome)  
Synechocystis aquatilis SAG 9079 KM020011  
Synechocystis sp. SAG 3792 KM020010  
Synechocystis sp. SAG 3792 KM020010  
Geminobacterium atlanticum LEGE 07459 KR676352 (ref. str.)  
Synechococcus sp. AICB1016 KJ746511  
Synechocystis sp. AICB51 KJ746512  
Cyanobacterium stanieri SAG 8879 AM258981 (ref. str.)  
Cyanobacterium sp. CENA527 KF246493  
Cyanobacterium stanieri PCC 7202 CP003940 rrnA (ref. str. complete genome)  
Cyanobacterium stanieri LEGE 03274 JADEVC000000000 rrnA (type sp. draft genome)  
Synechococcus sp. PCC 8806 AF448077  
uncultured bacterium clone Y8-3 KF912998  
Cyanobacterium sp. IPPAS B-1200 LWHC000000000 rrnA (draft genome)  
uncultured bacterium clone SIN1030 HM126696  
Cyanobacterium sp. HL-69 CP024912 rrnA (complete genome)  
uncultured bacterium clone SINH445 HM128012

species 5.1.7.4B (2)  
monospecific genus 5.1.7.5: Synechocystis (2)  
species 5.1.7.6A (8)

genus 5.1.7.6: Cyanobacterium (12)

Microcroccis geminata MC12 ON426373  
Microcroccis geminata MC14 ON426375  
Microcroccis geminata MC13 ON426374  
Microcroccis geminata MC8 ON426379  
Microcroccis geminata MC11 ON426372  
Microcroccis geminata MC16 ON426376

species 5.1.7.6B (4)

monospecific genus 5.1.7.22: Microcroccis (6)

Annamia toxica HOs24 HQ658457  
uncultured cyanobacterium clone wr osc 01 LC130608  
uncultured cyanobacterium clone W4359-20 JN646795  
Annamia dubia NIES-4383 LC571519  
Annamia dubia NIES-4383 AP025630 rrnA (complete genome)  
Annamia dubia NIES-4383 AP025630 rrnB (complete genome genus)  
Annamia dubia NIES-4383 AP025630 rrnC (complete genome genus)  
Cyanobacterium sp. CENA169 KG695662  
uncultured cyanobacterium clone BFF12 JF929667  
Picosynechococcus sp. L21-BG-1 KJ206338  
Picosynechococcus sp. PCC 7002 CP000951 rrnA (complete genome)  
Picosynechococcus sp. OG1 FXBO000000000 rrnA (draft genome)  
Picosynechococcus sp. PCC 7002 FXWN000000000 rrnA (draft genome)  
Picosynechococcus sp. PCC 7003 CP016474 rrnA (complete genome)  
Picosynechococcus sp. COMP1530 AY949493  
Picosynechococcus sp. NKBG042902 BAW500000000 rrnA (draft genome)  
Picosynechococcus sp. PCC 8807 CP016483 rrnA (complete genome)  
Picosynechococcus sp. PCC 11901 CP040360 rrnA (complete genome)  
Picosynechococcus sp. PCC 7117 CP016477 rrnA (complete genome)  
Picosynechococcus sp. PCC 73109 CP013998 rrnA (complete genome)  
Picosynechococcus sp. BDU 130192 PCGE000000000 rrnA (draft genome)  
Leptolyngbya sp. PCC 7316 CP003946 rrnA (complete genome)  
Limnolobus rosea IAM M-200 (NIES-208) NIES 000000000 rrnA (draft genome)  
Picosynechococcus sp. NKBG15041c BAUB000000000 rrnA (draft genome)  
Picosynechococcus sp. NIES-970 AP017959 rrnA (complete genome)  
Picosynechococcus fontinalis FG1 MG207959 (ref. str.)  
Picosynechococcus sp. Salton Sea DQ455751  
Picosynechococcus sp. NKBG15041c LC006088  
Picosynechococcus sp. T71 AF448073  
Synechococcus sp. UH7 AF448074  
Chroococcales cyanobacterium LEGE 11426 KU951883

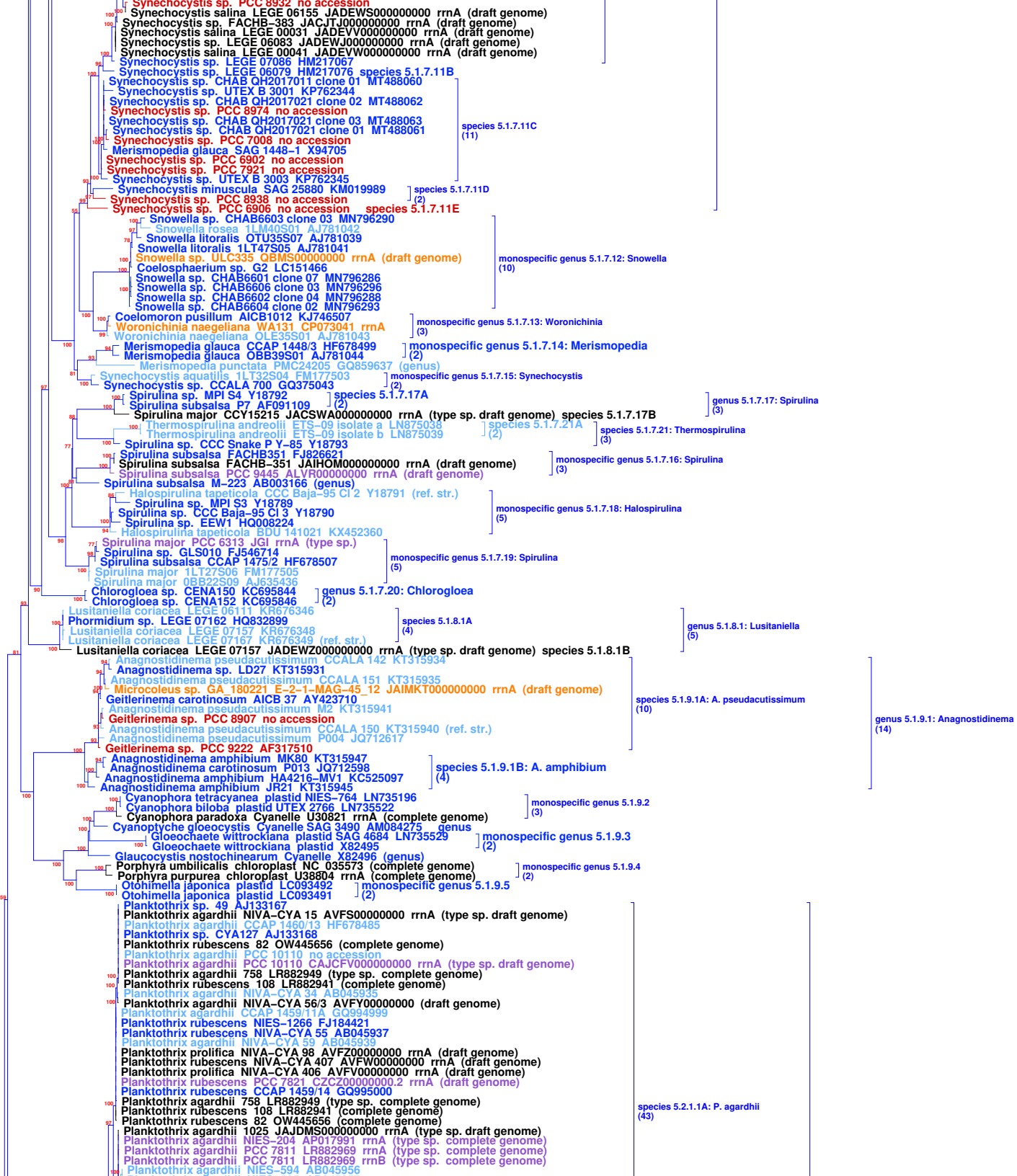
monospecific genus 5.1.7.7: Annamia (5)  
monospecific genus 5.1.7.8 (2)

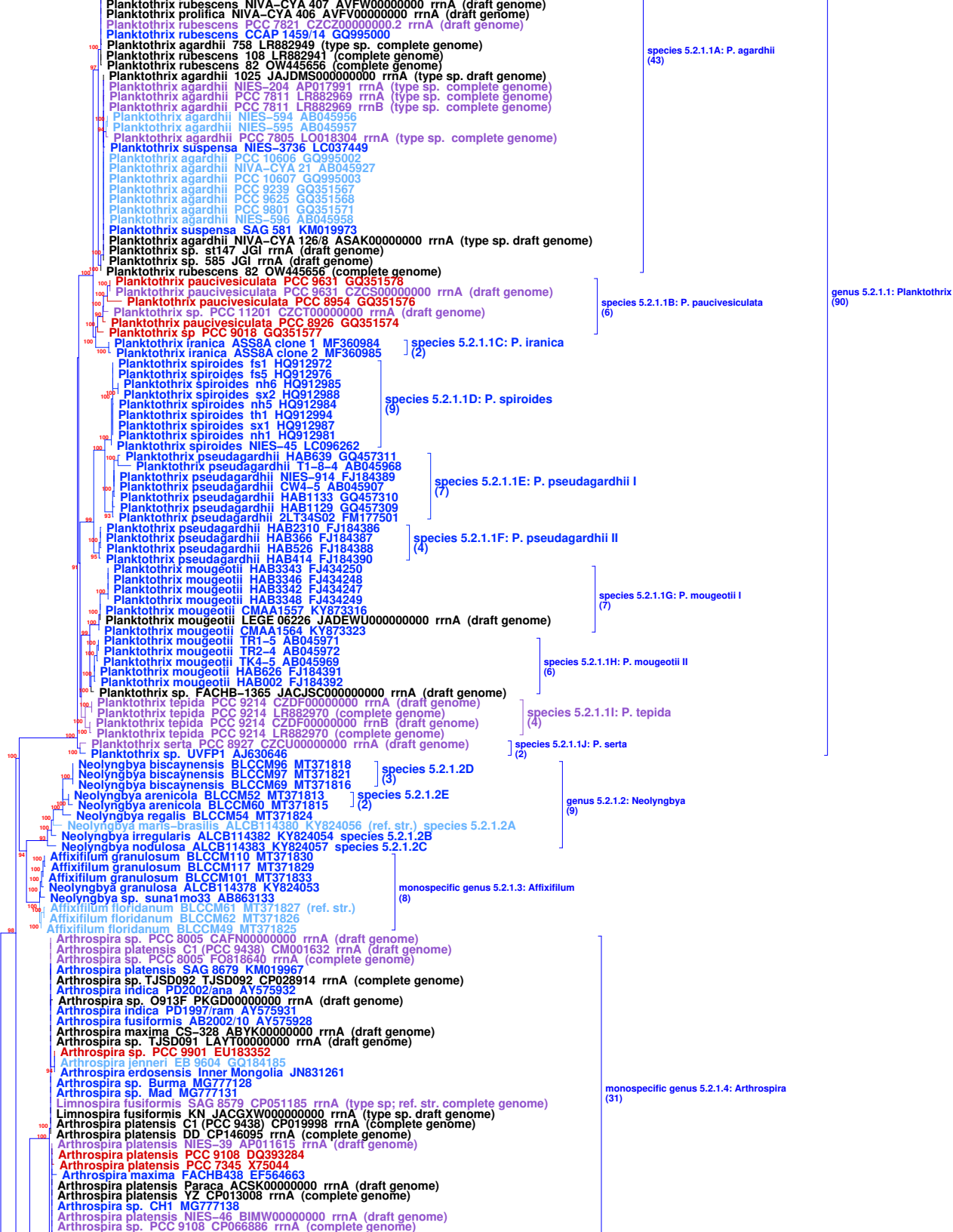
species 5.1.7.9A (12)  
genus 5.1.7.9: Picosynechococcus (20)  
species 5.1.7.9B (2)  
species 5.1.7.9C (6)

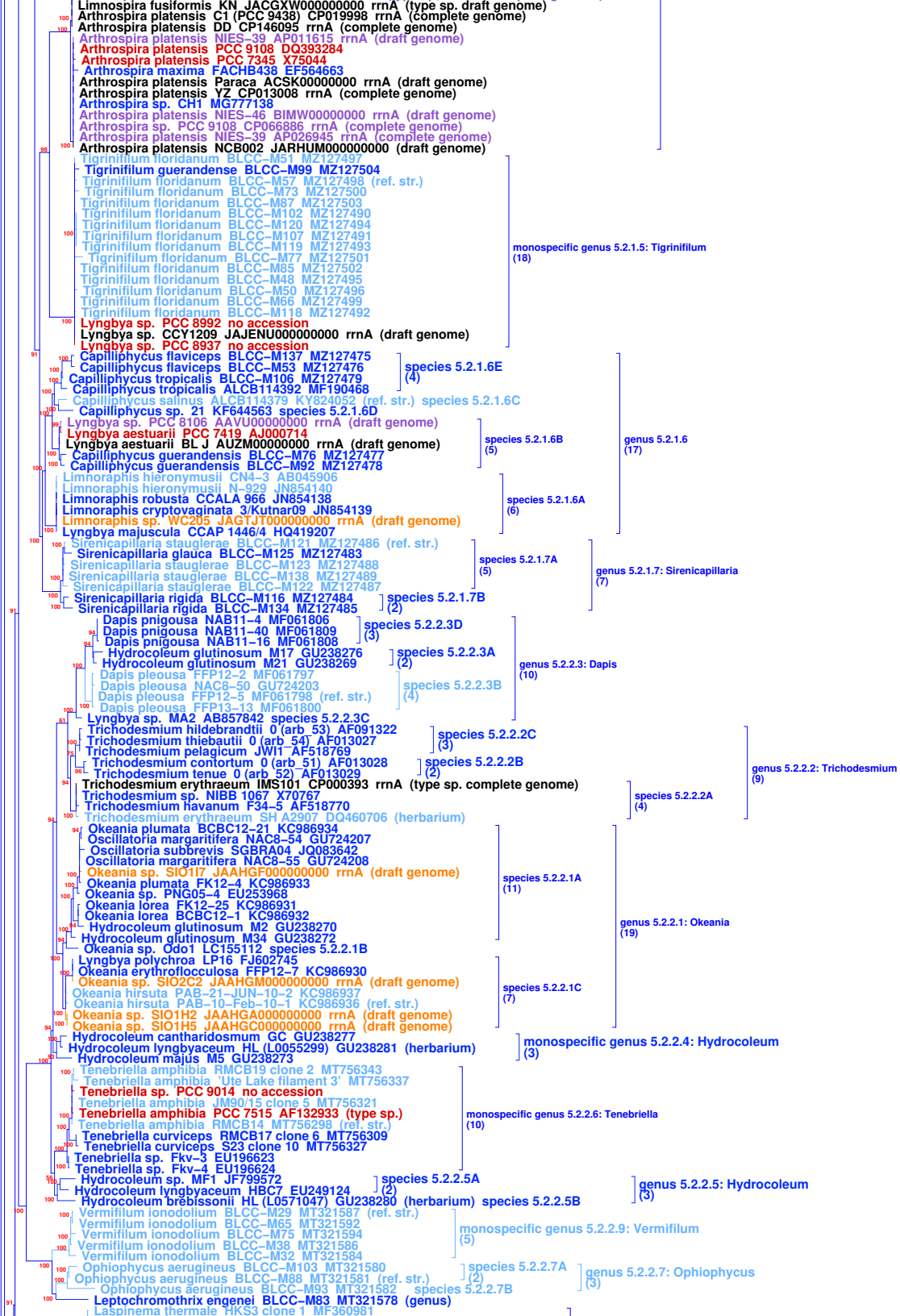
Synechocystis sp. PCC 6714 CP007542 rrnA (complete genome)  
Synechocystis sp. PCC 6805 AB041938  
Synechocystis sp. PCC 6702 AB041936 (complete genome)  
Synechocystis sp. CACIAM 05 CP019225 rrnA (complete genome)  
Synechocystis sp. PCC 6806 no accession  
Synechocystis sp. PCC 6803 BA000022 rrnA (complete genome)  
Synechocystis sp. PCC 6905 no accession  
Synechocystis sp. PCC 7919 no accession  
Synechocystis sp. PCC 8906 no accession  
Synechocystis sp. PCC 8962 no accession  
Synechocystis sp. PCC 8912 no accession  
Synechocystis sp. PCC 8919 no accession  
Synechocystis sp. PCC 6803 substr PCC-N AP012277 rrnA (complete genome)  
Synechocystis sp. PCC 6803 substr GT-I AP012276 rrnA (complete genome)  
Synechocystis sp. PCC 6803 substr PCC-P AP012278 rrnA (complete genome)  
Synechocystis sp. IPPAS B-1465 CP028094 rrnA (complete genome)  
Synechocystis sp. FACHB-898 JACJTG000000000 rrnA (draft genome)  
Synechocystis sp. FACHB-908 JACJTH000000000 rrnA (draft genome)  
Synechocystis sp. FACHB-929 JACJTI000000000 rrnA (draft genome)  
Synechocystis sp. PCC 6803 LT CP073017 rrnA (complete genome)  
Synechocystis sp. PCC 6803 substr GT-T CP094998  
Synechocystis sp. PCC 8805 no accession  
Synechocystis sp. PCC 7201 no accession  
Synechocystis sp. PCC 7339 no accession  
Synechocystis sp. PCC 7338 no accession  
Synechocystis sp. PCC 7338 CP054306 rrnA (complete genome)  
Synechocystis sp. PCC 7338 CP054306 rrnB (complete genome)  
Synechocystis sp. PCC 7339 CP063659 rrnA (complete genome)  
Synechocystis sp. PCC 7719 no accession  
Synechocystis salina LEGE 06099 JADEWK000000000 rrnA (draft genome)  
Synechocystis sp. PCC 892 no accession  
Synechocystis salina LEGE 06165 JADEWS000000000 rrnA (draft genome)  
Synechocystis sp. FACHB-383 JACJTJ000000000 rrnA (draft genome)  
Synechocystis salina LEGE 00031 JADEVW000000000 rrnA (draft genome)  
Synechocystis sp. LEGE 06083 JADEWJ000000000 rrnA (draft genome)  
Synechocystis salina LEGE 00041 JADEVW000000000 rrnA (draft genome)  
Synechocystis sp. LEGE 07086 HM217067  
Synechocystis sp. LEGE 06079 HM217076 species 5.1.7.11B  
Synechocystis sp. CHAB QH2017011 clone 01 MT488060  
Synechocystis sp. UTEX B 3001 KP762344  
Synechocystis sp. CHAB QH2017021 clone 02 MT488062  
Synechocystis sp. PCC 8974 no accession

species 5.1.7.11A (37)

genus 5.1.7.11: Synechocystis (52)



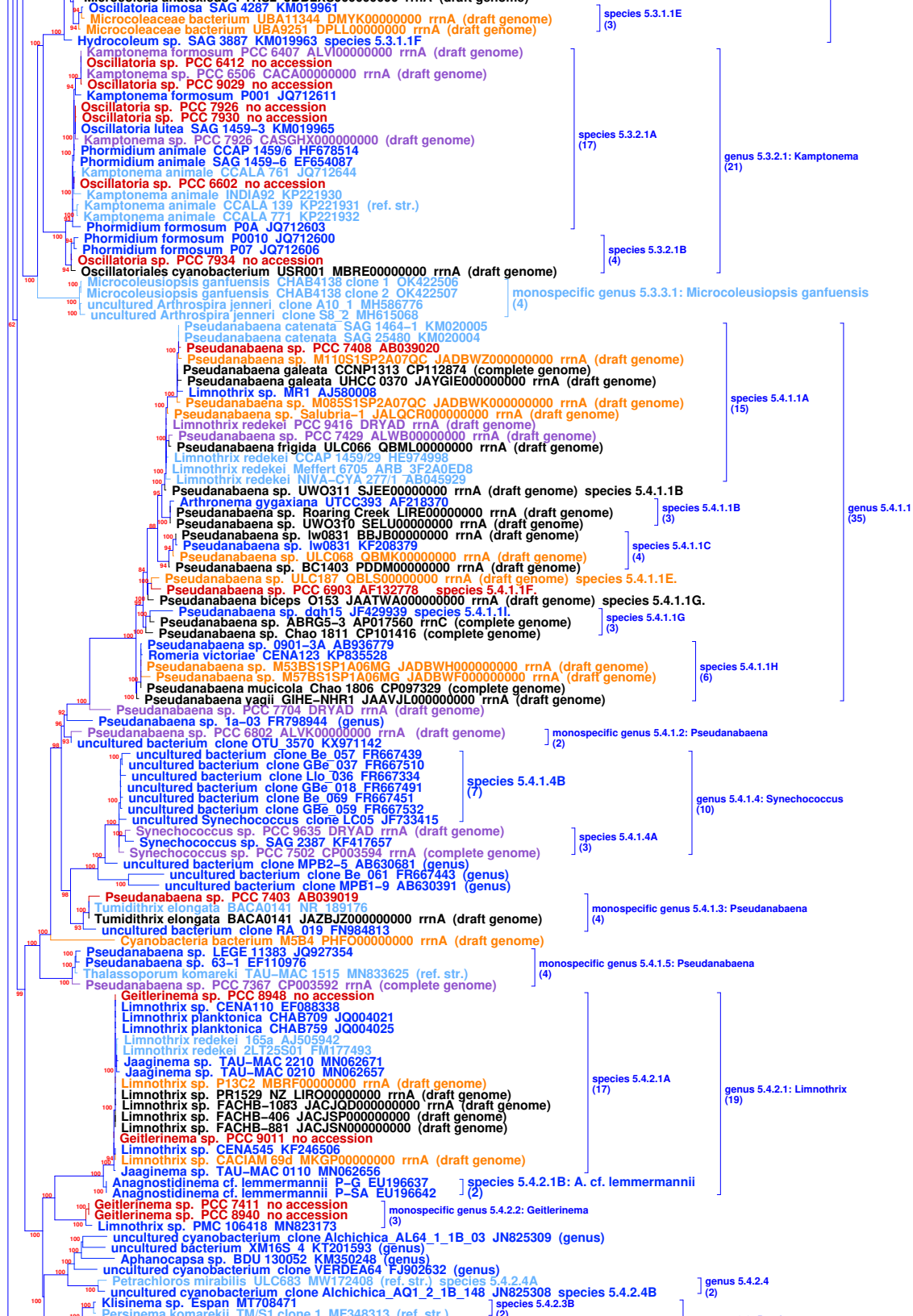


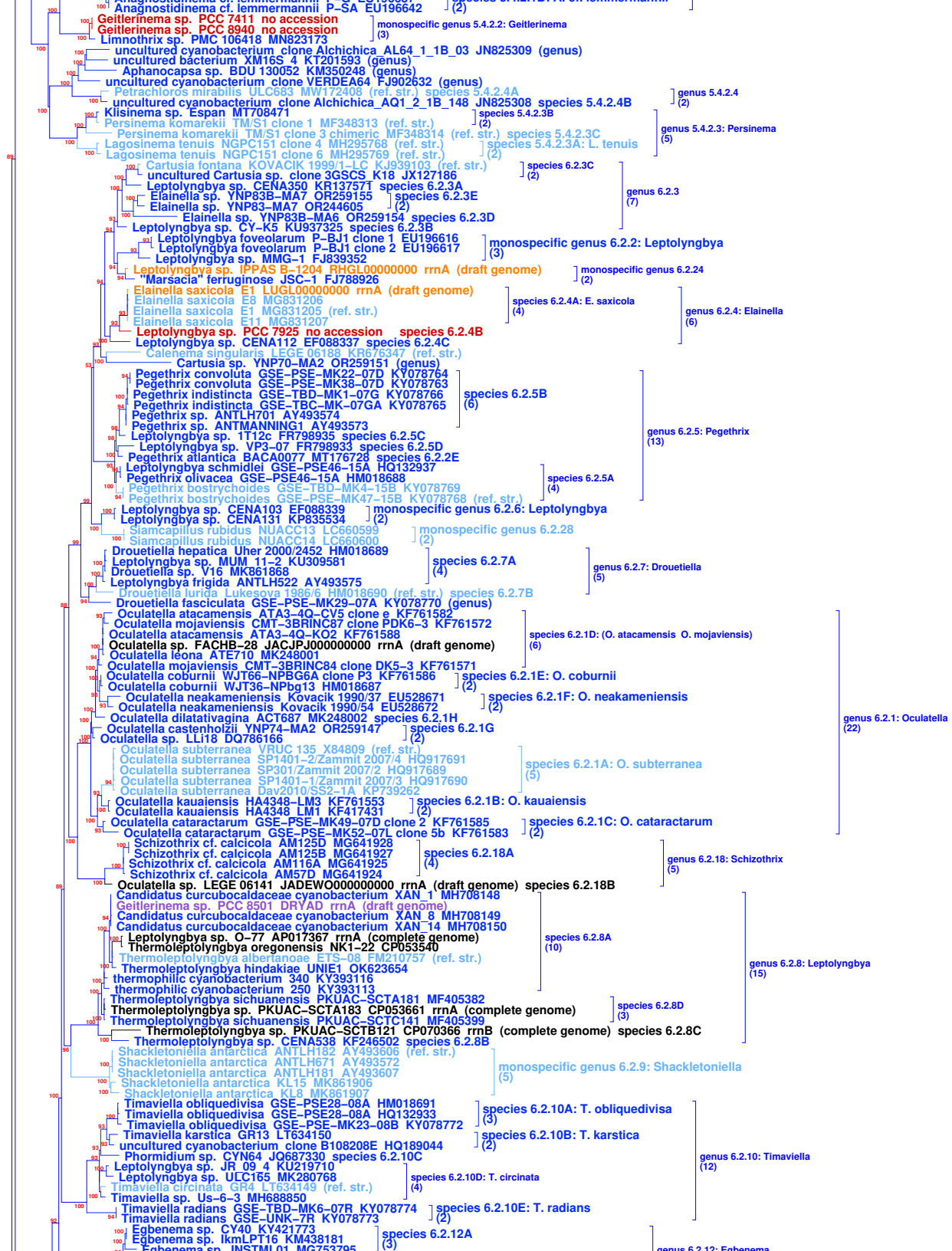


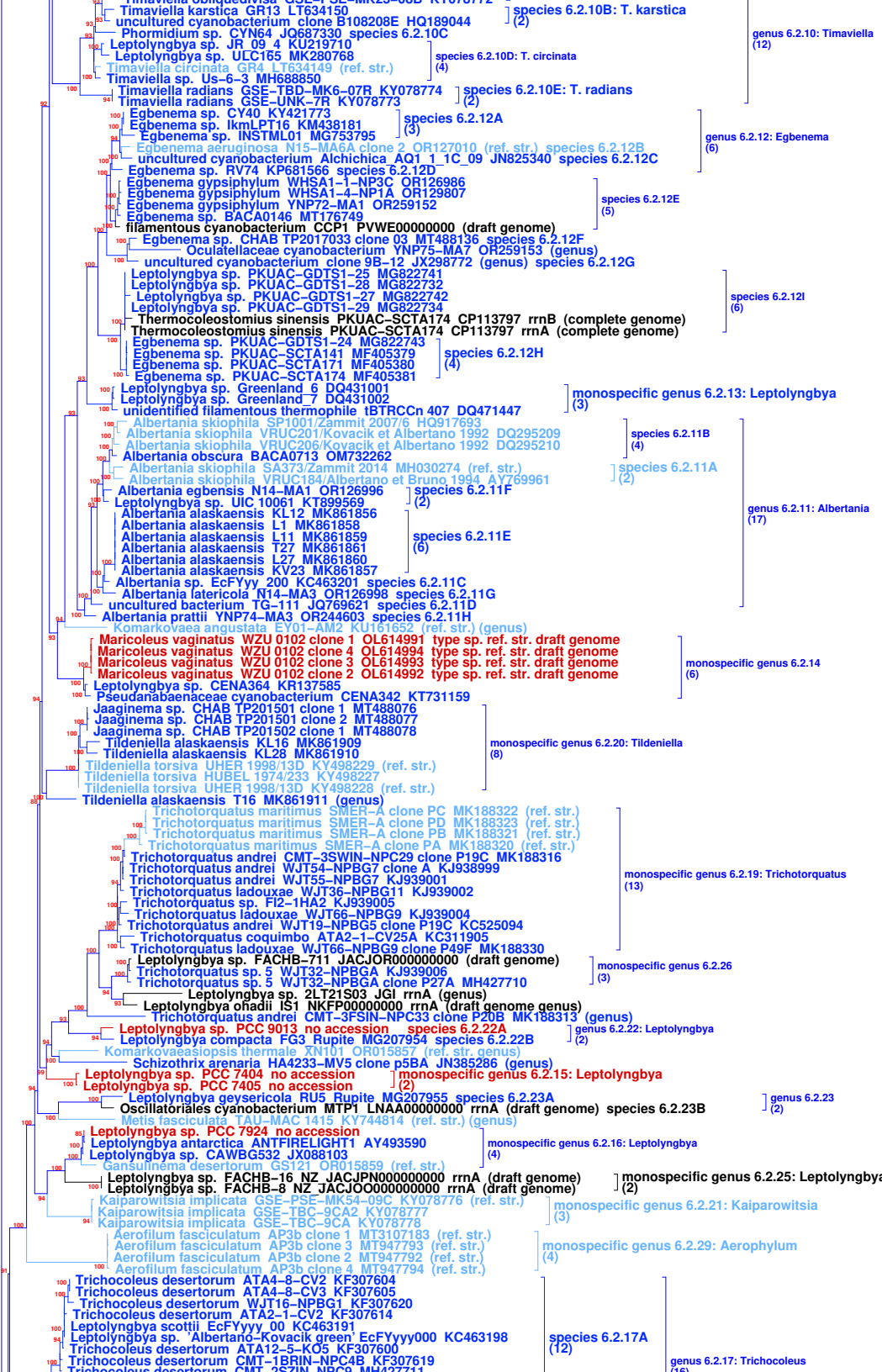












genus 6.2.10: Timaviella  
(12)

species 6.2.12A  
(3)

genus 6.2.12: Egbenema  
(6)

species 6.2.12E  
(5)

species 6.2.12I  
(6)

species 6.2.12H  
(4)

monospecific genus 6.2.13: Leptolyngbya  
(3)

species 6.2.11B  
(4)

species 6.2.11A  
(2)

species 6.2.11F  
(2)

species 6.2.11E  
(6)

species 6.2.11C  
(2)

species 6.2.11G  
(2)

species 6.2.11D  
(2)

species 6.2.11H  
(2)

species 6.2.11I  
(2)

species 6.2.11J  
(2)

species 6.2.11K  
(2)

species 6.2.11L  
(2)

species 6.2.11M  
(2)

species 6.2.11N  
(2)

species 6.2.11O  
(2)

species 6.2.11P  
(2)

species 6.2.11Q  
(2)

species 6.2.11R  
(2)

species 6.2.11S  
(2)

species 6.2.11T  
(2)

species 6.2.11U  
(2)

species 6.2.11V  
(2)

species 6.2.11W  
(2)

genus 6.2.11: Albertania  
(17)

monospecific genus 6.2.14  
(6)

monospecific genus 6.2.20: Tildenella  
(8)

monospecific genus 6.2.19: Trichotorquatus  
(13)

monospecific genus 6.2.26  
(3)

genus 6.2.22: Leptolyngbya  
(2)

genus 6.2.15: Leptolyngbya  
(2)

genus 6.2.23  
(2)

monospecific genus 6.2.16: Leptolyngbya  
(4)

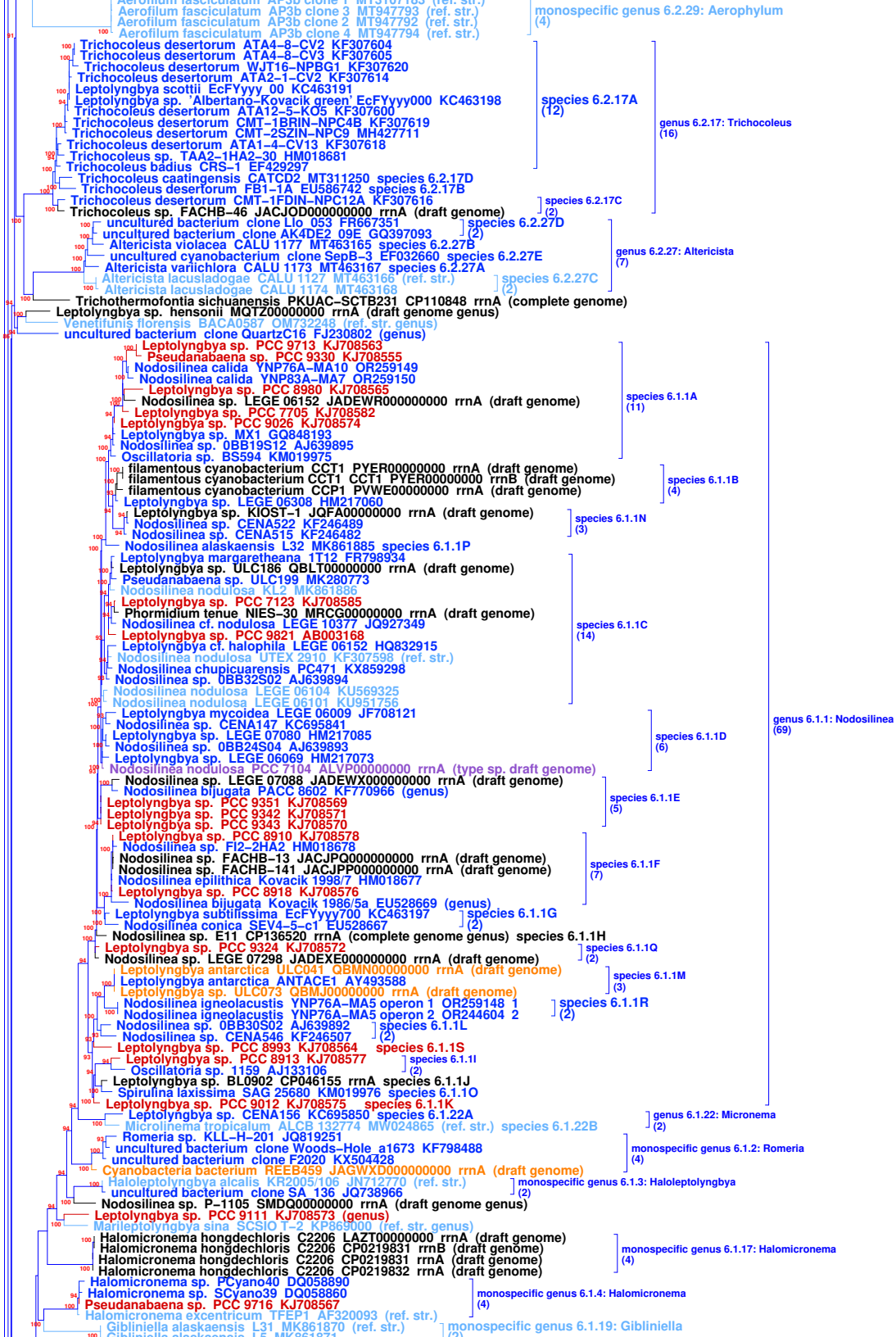
monospecific genus 6.2.25: Leptolyngbya  
(2)

monospecific genus 6.2.21: Kaiparowitsia  
(3)

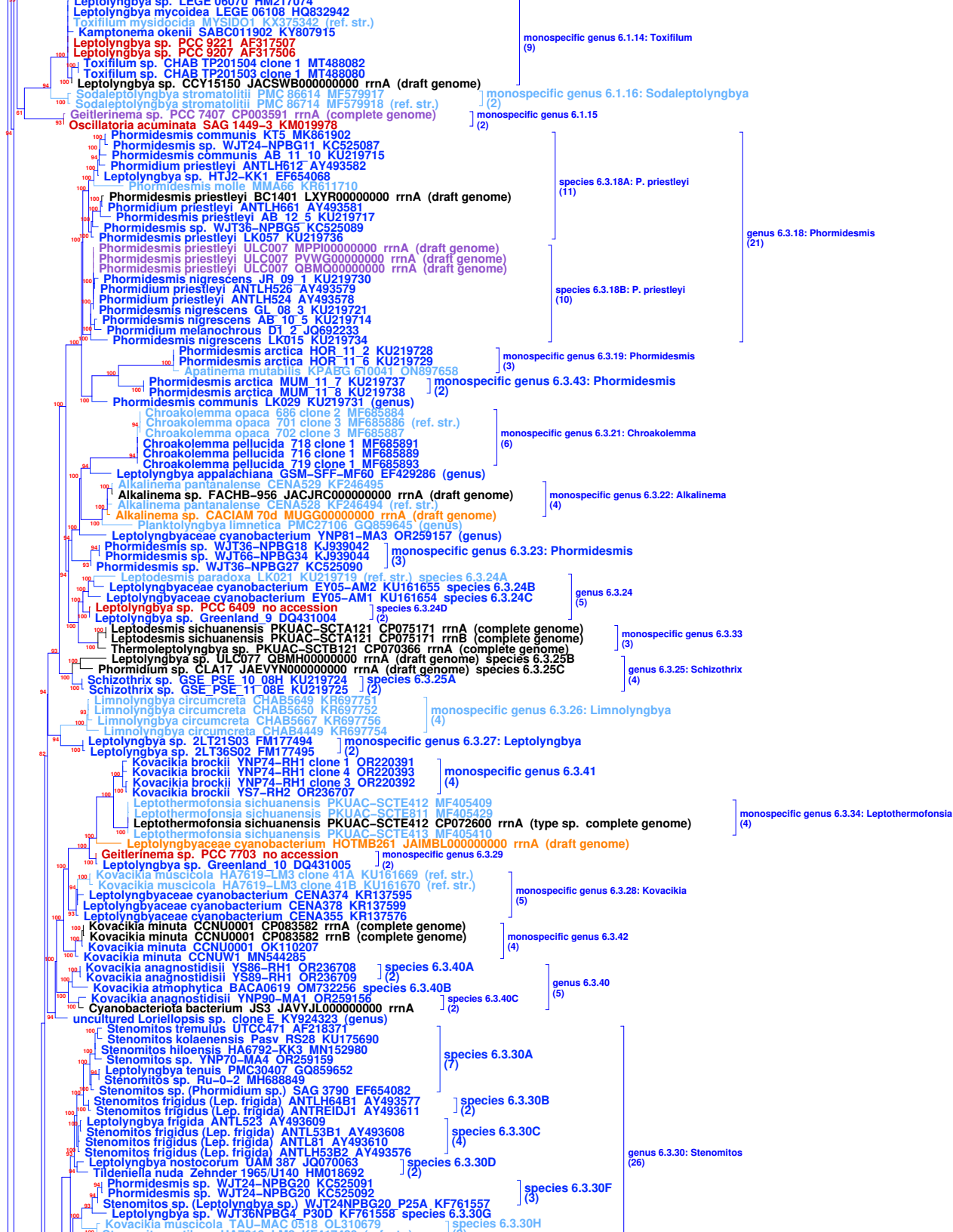
monospecific genus 6.2.29: Aerophilum  
(4)

species 6.2.17A  
(12)

genus 6.2.17: Trichocoleus



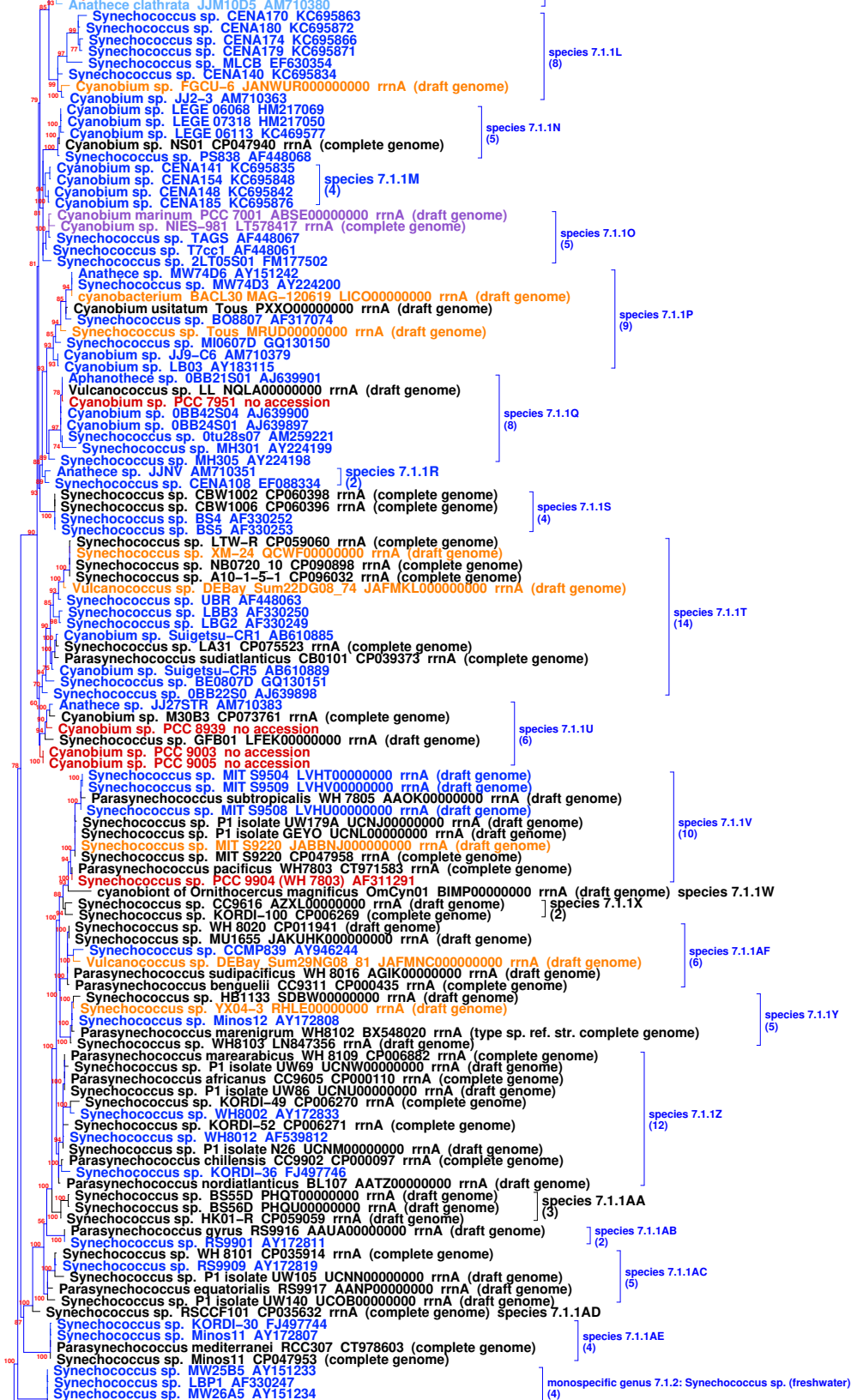












genus 7.1.1: *Parasynechococcus* (184)

species 7.1.1L (8)

species 7.1.1N (5)

species 7.1.1M (4)

species 7.1.1O (5)

species 7.1.1P (9)

species 7.1.1Q (6)

species 7.1.1S (4)

species 7.1.1T (14)

species 7.1.1U (6)

species 7.1.1V (10)

species 7.1.1W (2)

species 7.1.1AF (6)

species 7.1.1Y (5)

species 7.1.1Z (12)

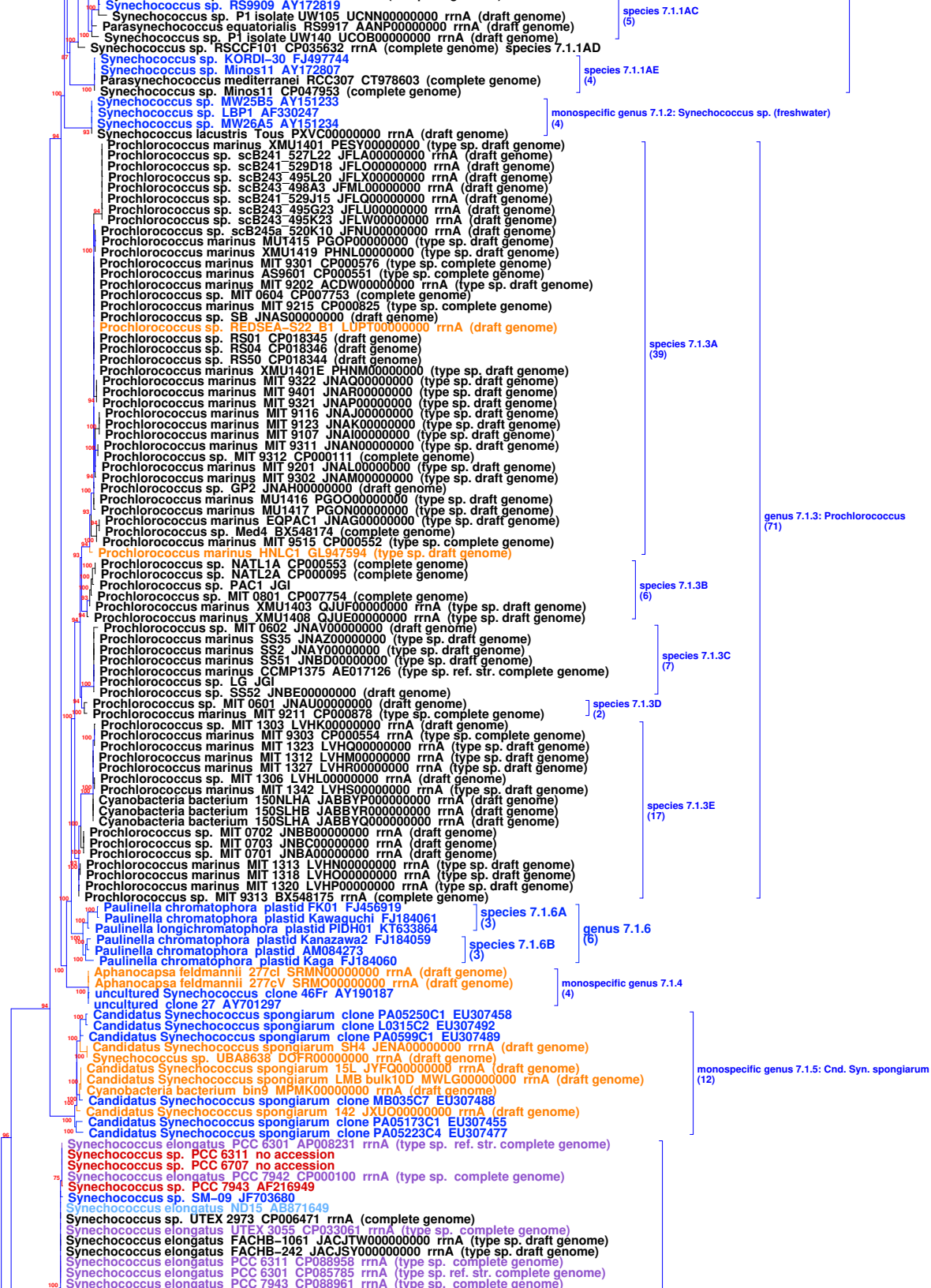
species 7.1.1AA (3)

species 7.1.1AB (2)

species 7.1.1AC (5)

species 7.1.1AE (4)

monospecific genus 7.1.2: *Synechococcus* sp. (freshwater) (4)



species 7.1.A-C  
(5)

species 7.1.1AE  
(4)

monospecific genus 7.1.2: Synechococcus sp. (freshwater)  
(4)

species 7.1.3A  
(39)

genus 7.1.3: Prochlorococcus  
(71)

species 7.1.3B  
(6)

species 7.1.3C  
(7)

species 7.1.3D  
(2)

species 7.1.3E  
(17)

species 7.1.6A  
(3)

species 7.1.6B  
(3)

monospecific genus 7.1.4  
(4)

monospecific genus 7.1.5: Cnd. Syn. spongiarium  
(12)





