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SUPPLEMENTARY MATERIAL

A comparative study of the metabolic profiles of common nuisance cyanobacteria in southern perialpine lakes

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Supplementary Fig. 1. Venn diagrams showing the distribution of the compounds found in the untargeted metabolic analysis among the different cyanobacterial strains. Aflos, *Aphanizomenon flos-aquae*; Dlemm, *Dolichospermum lemmermannii*; Micro, *Microcystis aeruginosa*; Prube, *Planktothrix rubescens*; Tbour, *Tychonema bourrellyi*.

Supplementary material. Tab. S1. List of metabolites founds in the investigated strains of Aflos, *Aphanizomenon flos-aquae*; Dlemm, *Dolichospermum lemmermannii*; Micro, *Microcystis aeruginosa*; Prube, *Planktothrix rubescens*; Tbour, *Tychonema bourrellyi*.

calculated molecular mass	observed m/z	rt	producing strains
501.4	502.4	4.92	MicroC2
503.4	504.4	7.59	MicroC2, Tbour05
505.4	506.4	6.85	Dlemm21
506.2	507.2	5.21	Prube17
507.3	508.3	7.36	Dlemm14
509.3	510.3	7.15	Tbour04
511.3	512.3	6.46	Dlemm16, Dlemm14
511.3	512.3	0.67	Dlemm16
526.2	527.2	0.52	Tbour05
527.3	528.3	7.79	Prube23, Dlemm14
528.4	529.4	6.13	Dlemm16, Aflos01
532.3	533.3	6.04	Aflos01, Aflos03
535.1	536.1	2.40	Aflos04
539.3	540.3	1.11	Dlemm21
542.4	543.4	6.27	Dlemm14
543.4	544.4	7.93	Aflos03, MicroC2
544.3	545.3	0.56	Aflos01, Aflos03, Aflos04
546.3	547.3	7.64	Dlemm21, Dlemm16
554.2	555.2	0.56	Prube23
554.2	555.2	1.76	MicroC2
556.2	557.2	1.10	MicroC2
557.2	558.2	3.31	Dlemm16
559.3	560.3	1.16	Tbour05
562.3	563.3	4.01	Aflos03, Tbour05
562.3	563.3	3.34	Dlemm21, Dlemm16, Aflos01
562.3	563.3	3.37	Tbour05
562.3	563.3	0.52	Aflos03
562.3	563.3	3.31	Aflos03, Aflos04, Tbour04, Prube23
563.5	564.5	0.80	Prube11
568.2	569.2	1.98	MicroC2
573.3	574.3	3.55	Dlemm14
575.4	576.4	3.28	MicroC1
586.1	587.1	0.99	MicroC2
586.3	587.3	2.67	Dlemm16
590.3	591.3	4.65	Tbour05, Aflos03
592.3	593.3	1.37	Prube17, Prube11
599.4	600.4	0.82	Tbour02
604.1	605.1	2.09	MicroC2
608.3	609.3	0.86	Prube11
609.1	610.1	0.70	Tbour02
609.1	610.1	3.09	Tbour02
609.2	610.2	6.38	Dlemm14
616.3	617.3	3.31	Tbour04
616.3	617.3	1.59	Prube17, Prube11

622.1	623.1	0.83	MicroC2
628.2	629.2	0.50	Prube23
631.4	632.4	4.82	Dlemm14
632.3	633.3	0.55	Prube17
638.3	639.3	6.33	Dlemm14
642.4	643.4	4.89	Dlemm16, Tbour05
647.3	648.3	6.22	Prube17
650.4	651.4	1.92	Prube11, Prube23
652.2	653.2	0.58	Tbour05
665.3	666.3	6.83	Aflos04, Dlemm14
667.4	668.4	3.19	Dlemm16
680.4	681.4	0.76	Dlemm21
683.1	684.1	1.92	Tbour04
684.3	685.3	0.92	Aflos03
691.4	692.4	6.85	Dlemm16
693.2	694.2	6.16	Tbour05, Aflos03
695.5	696.5	0.97	Prube11
698.3	699.3	0.83	Tbour04, MicroC2
700.3	701.3	0.78	Prube23
712.3	713.3	6.10	Tbour05
713.4	714.4	7.41	Dlemm16
714.3	715.3	1.23	Prube23, Prube17
714.3	715.3	3.84	Prube23
721.2	722.2	6.86	Tbour05
744.4	745.4	7.95	Prube17
745.3	746.3	1.39	Tbour05
751.2	752.2	0.61	Prube23, Prube11, Tbour04
757.2	758.2	4.24	Tbour04
764.3	765.3	0.72	Tbour04
780.3	781.3	0.89	Tbour04
800.3	801.3	6.65	Prube23, Prube17, Prube11
813.3	814.3	3.45	MicroC1
816.3	817.3	4.82	Prube17, Prube23, Prube11
825.3	826.3	3.95	Prube23, Prube11
830.3	831.3	1.09	MicroC1
836.4	837.4	1.25	Prube11
842.4	843.4	1.08	Prube11, Prube17
844.4	845.4	1.49	MicroC2
846.4	847.4	4.86	MicroC2
850.4	851.4	1.57	Prube23, Prube17
851.4	852.4	3.89	Tbour05
855.3	856.3	5.03	MicroC2
857.3	858.3	4.64	Prube23, Prube11, Prube17
860.4	861.4	0.99	Prube17, Prube11, Prube23
869.4	870.4	5.79	MicroC1
873.3	874.3	4.21	Prube17
876.4	877.4	4.26	MicroC2
883.4	884.4	6.44	MicroC2
931.5	932.5	7.89	Tbour02
933.3	934.3	5.52	MicroC2
949.4	950.4	3.65	MicroC2
957.4	958.4	7.50	Prube17

967.4	968.4	5.86	MicroC2
969.4	970.4	3.09	MicroC2, MicroC1
971.4	972.4	4.01	MicroC1
973.4	974.4	6.16	Prube11
980.4	981.4	4.71	Prube17
980.5	981.5	2.77	MicroC1, MicroC2
980.5	981.5	4.77	Prube11
983.4	984.4	4.06	MicroC1, MicroC2
985.5	986.5	3.48	Dlemm16
987.5	988.5	7.54	Prube11
991.7	496.9	0.56	Tbour04
994.6	995.6	4.75	MicroC2, MicroC1
996.5	997.5	3.21	Prube17
997.4	998.4	4.61	MicroC1, MicroC2
1007.4	1008.4	0.62	Tbour04, Prube11
1008.5	1009.5	5.17	MicroC1, MicroC2, Prube23
1010.6	506.8	5.41	MicroC2, MicroC1
1016.5	1017.5	4.14	Prube11, MicroC2, MicroC1
1023.5	1024.5	1.98	Prube17, Prube23, Prube11
1025.5	1026.5	4.42	MicroC2
1030.5	1031.5	5.91	Prube11
1036.4	1037.4	2.88	Prube11
1039.5	520.7	4.20	MicroC2
1039.6	520.8	0.83	Prube17
1040.5	1041.5	6.25	Prube23
1043.4	1044.4	4.59	Prube23, Prube11
1060.5	1061.5	5.50	MicroC1
1068.3	1069.3	0.63	Aflos03
1068.5	1069.5	5.84	Prube23
1079.4	1080.4	1.75	Prube11
1091.5	1092.5	5.43	Prube17
1092.3	1093.3	2.62	Tbour05
1093.5	1094.5	2.53	Prube23, Prube17
1107.5	554.8	3.60	Prube17, Prube11, Prube23
1108.9	555.4	2.14	Aflos01
1121.6	561.8	4.18	Prube23, Prube11
1123.7	562.8	3.04	Prube17
1148.6	575.3	5.37	Prube17
1149.6	575.8	3.45	Prube23, Prube11
1165.5	583.8	2.31	Prube17
1179.5	590.8	3.40	Prube11, Prube17
1182.7	592.4	0.88	MicroC2
