

Supplementary Information

Chemical diversity of cyanobacterial natural products

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Introduction

This review covers cyanobacterial metabolites reported between 2010 and 2023. Selected compounds are described in the main text. A comprehensive list of metabolites is provided in this Supplementary Information (SI) document, along with the habitat of the producing organism, taxonomy, reference publication DOI, and chemical structures. *All* structures are shown in the SI. Sections in the SI were separated according to a chemical classification of the metabolites. Metabolites of mixed biosynthetic origin were included in sections according to their predominant chemical features or were added to the miscellaneous compounds section.

Abbreviations and symbols

The following abbreviations and symbols are used in Tables S1-S5:

#: number of the chemical structure

*: molecules with low similarity in the similarity network ('isolated nodes')

M: marine

F: freshwater/terrestrial

B: brackish

O: other

n.r.: non-repor

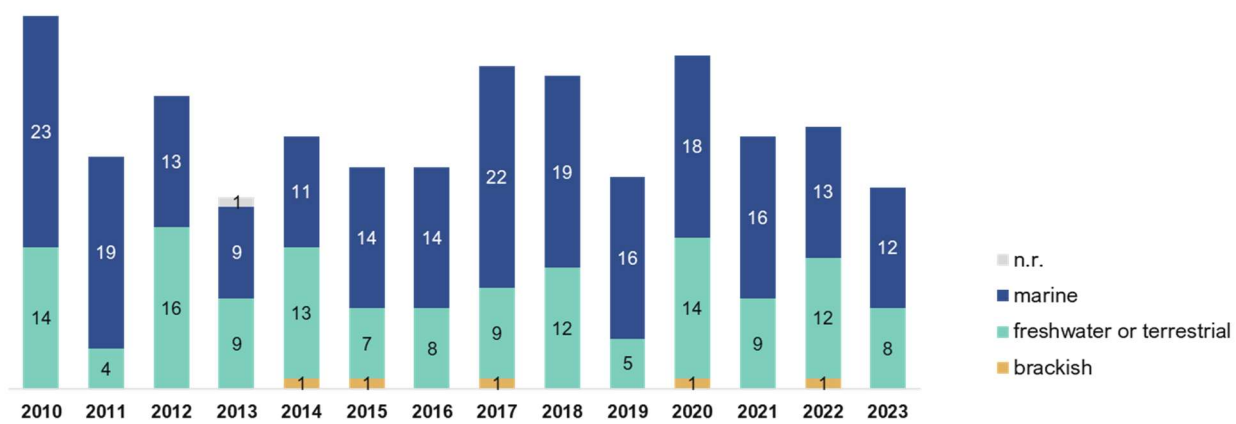


Figure S1. Number of articles reporting new cyanobacterial natural products per year and environmental source (2010-2023).

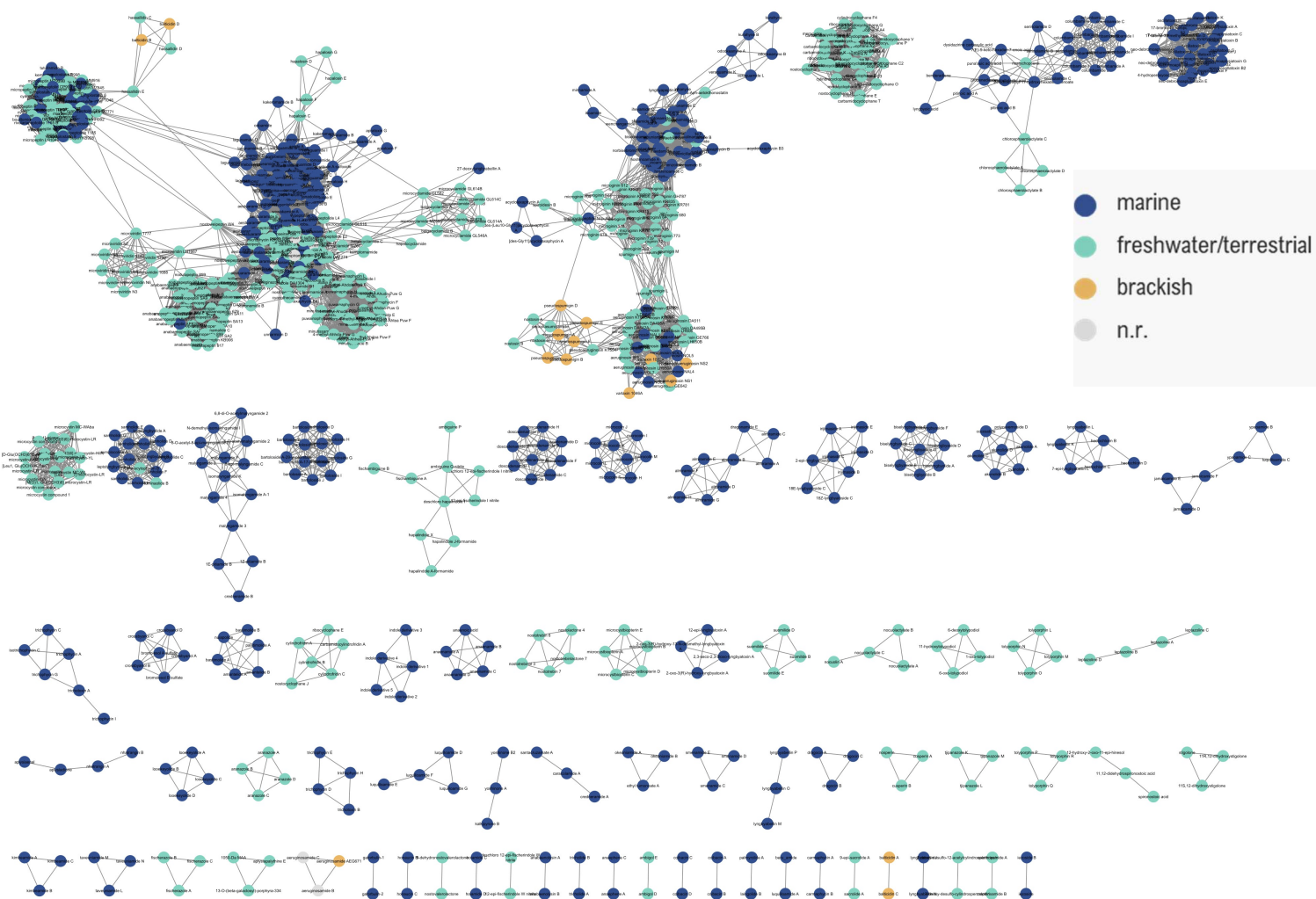


Figure S2. Similarity network of the cyanobacterial metabolites reported between 2010 and 2023 with compound labels. Nodes are color coded according to the environmental source of the producing cyanobacteria.

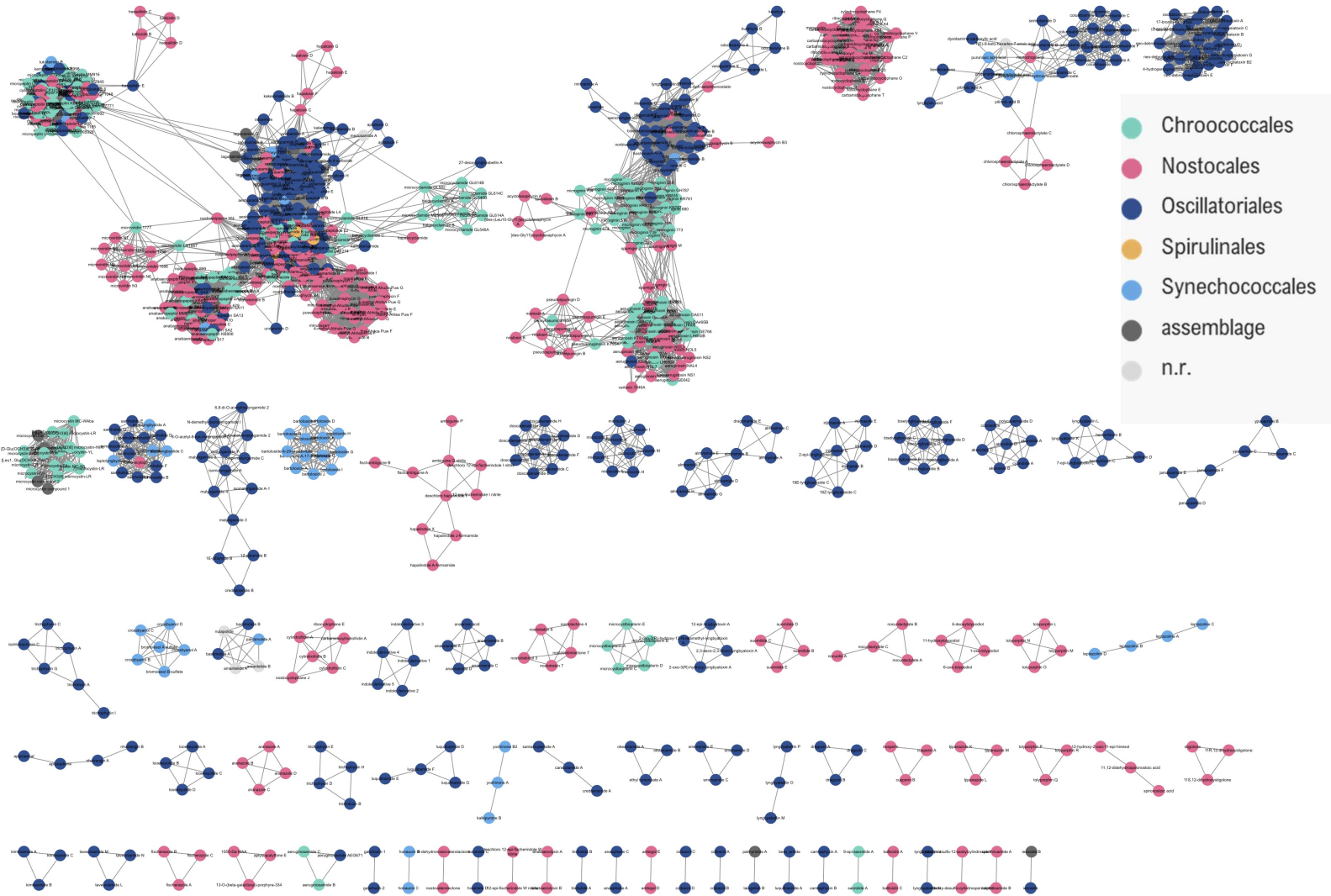
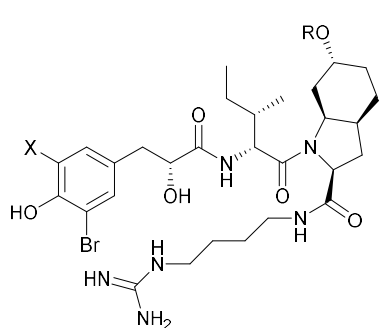


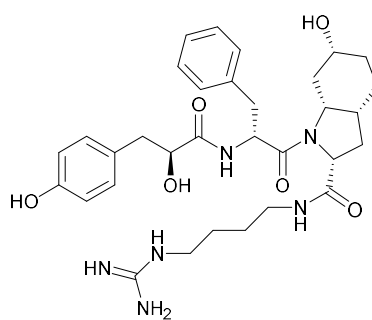
Figure S3. Similarity network of the cyanobacterial metabolites reported between 2010 and 2023 with compound labels. Nodes are color coded according to the taxonomic order of the producing cyanobacteria.

Table S1. Peptides and lipopeptides from cyanobacteria (2010-2023)

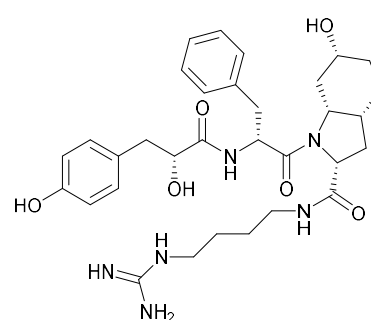
#	Compound	Habitat	Producing organism	DOI
1	aeruginosin GE686	F	<i>Microcystis aeruginosa</i>	10.1021/np3005612
2	aeruginosin GE766	F	<i>Microcystis aeruginosa</i>	10.1021/np3005612
3	aeruginosin GE730	F	<i>Microcystis aeruginosa</i>	10.1021/np3005612
4	aeruginosin GE810	F	<i>Microcystis aeruginosa</i>	10.1021/np3005612
5	aeruginosin GE642	F	<i>Microcystis aeruginosa</i>	10.1021/np3005612
6	aeruginosin KT608A	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x
7	aeruginosin KT608B	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x
8	aeruginosin KT650	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x
9	aeruginosin GH553	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x



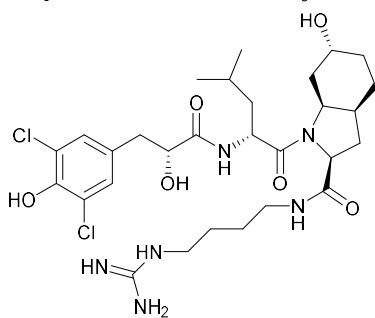
1 aeruginosin GE686 R = H X = Cl
 2 aeruginosin GE766 R = SO₃H X = Cl
 3 aeruginosin GE730 R = H X = Br
 4 aeruginosin GE810 R = SO₃H X = Br



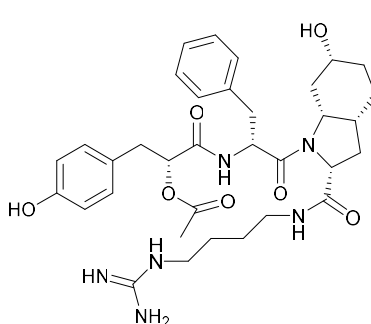
6 aeruginosin KT608A



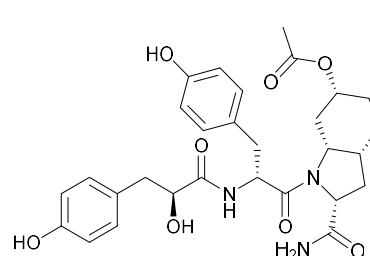
7 aeruginosin KT608B



5 aeruginosin GE642



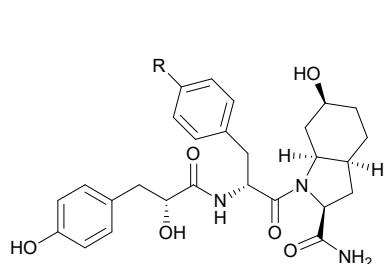
8 aeruginosin KT650



9 aeruginosin GH553

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
10	aeruginosin DA495A	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
11	aeruginosin DA511	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
12	aeruginosin DA642A	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
13	aeruginosin DA642B	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
14	aeruginosin DA688	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
15	aeruginosin DA722	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
16	aeruginosin DA495B	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
17	aeruginosin IN608	F	<i>Microcystis aeruginosa</i>	10.1021/np4001152
18	aeruginosin IN652	F	<i>Microcystis aeruginosa</i>	10.1021/np4001152
19	aeruginosin LH650A	F	<i>Microcystis</i> sp.	10.1016/j.tet.2014.07.057
20	aeruginosin LH650B	F	<i>Microcystis</i> sp.	10.1016/j.tet.2014.07.057

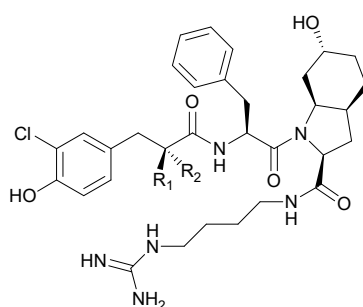


10 aeruginosin DA495A

R = H

11 aeruginosin DA511

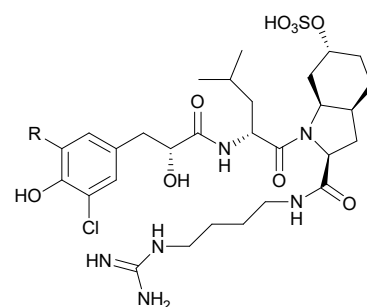
R = OH



12 aeruginosin DA642A

R₁ = OHR₂ = H

13 aeruginosin DA642B

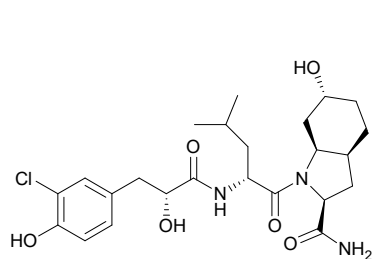
R₁ = HR₂ = OH

14 aeruginosin DA688

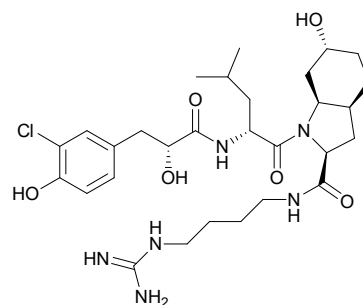
R = H

15 aeruginosin DA722

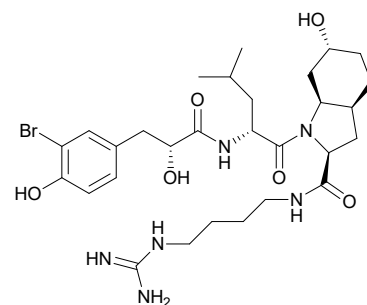
R = Cl



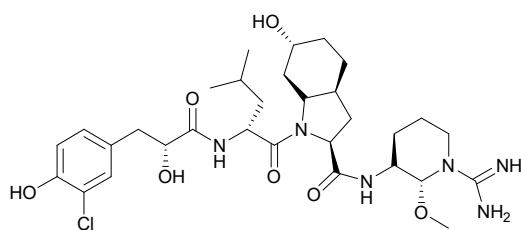
16 aeruginosin DA495B



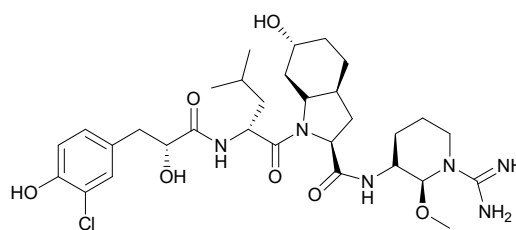
17 aeruginosin IN608



18 aeruginosin IN652



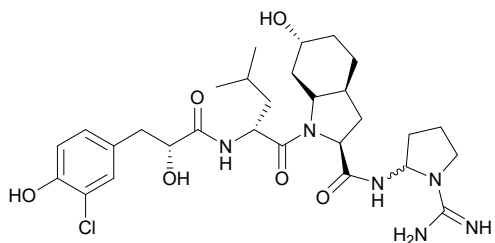
19 aeruginosin LH650A



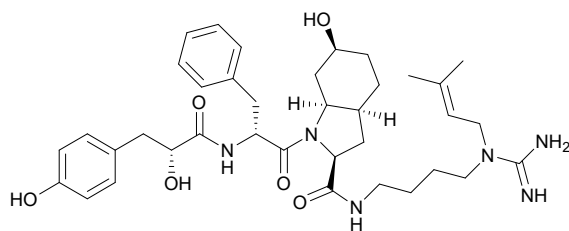
20 aeruginosin LH650B

Table S1. (continued)

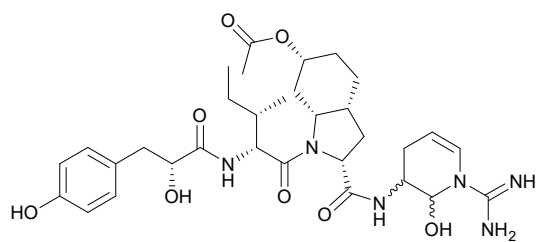
#	Compound	Habitat	Producing organism	DOI
21	aeruginosin LH606	F	<i>Microcystis</i> sp.	10.1016/j.tet.2014.07.057
22	aeruginosin KB676	F	<i>Microcystis</i> spp.	10.3390/md13042347
23	aeruginosin TR642	F	<i>Microcystis</i> sp.	10.3390/md15120371
24	aeruginosin 828A	F	<i>Planktothrix</i> sp.	10.1016/j.hal.2014.07.003
25	aeruginosin 865	F	<i>Nostoc</i> sp.	10.1002/cbic.201300246



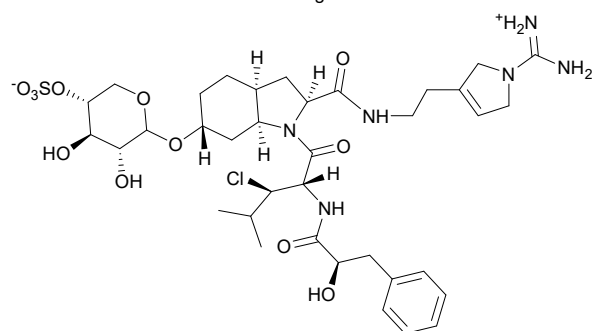
21 aeruginosin LH606



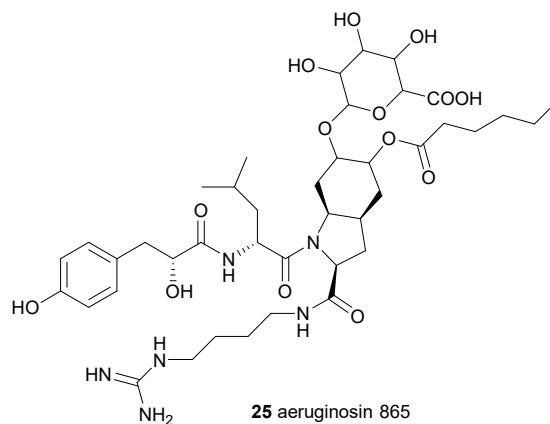
22 aeruginosin KB676



23 aeruginosin TR642



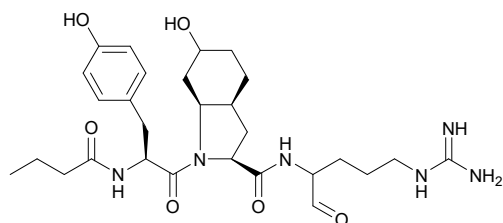
24 aeruginosin 828 A



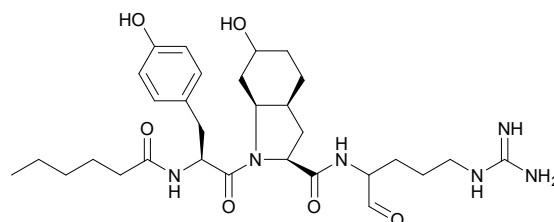
25 aeruginosin 865

Table S1. (continued)

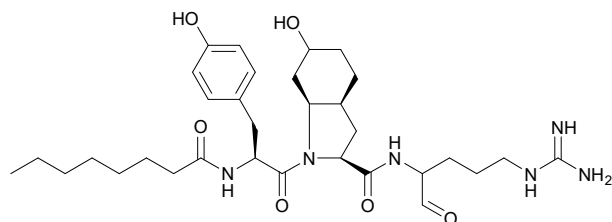
#	Compound	Habitat	Producing organism	DOI
26	aeruginosin NAL1	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
27	aeruginosin NAL2	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
28	aeruginosin NAL3	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
29	aeruginosin NAL4	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
30	aeruginosin NOL1	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
31	aeruginosin NOL2	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
32	aeruginosin NOL3	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
33	aeruginosin NOL4	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618



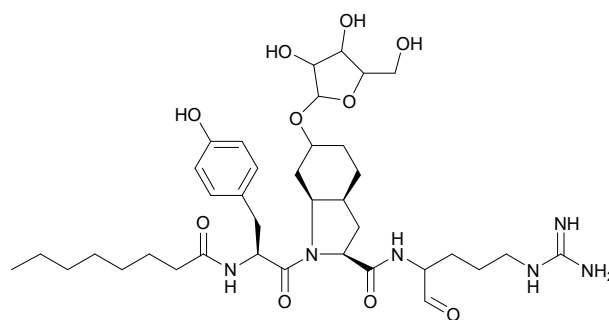
26 aeruginosin NAL1



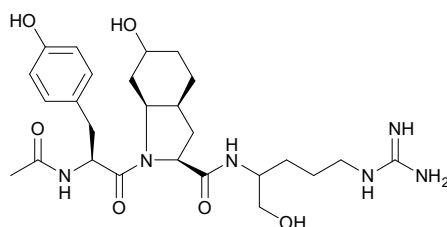
27 aeruginosin NAL2



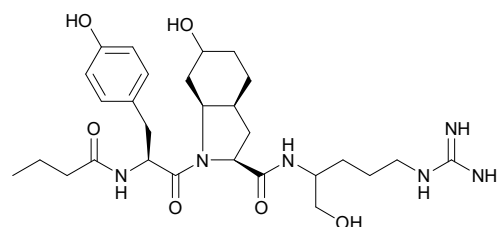
28 aeruginosin NAL3



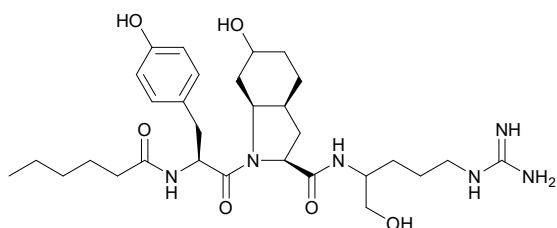
29 aeruginosin NAL4



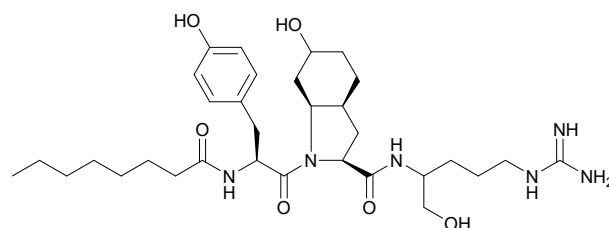
30 aeruginosin NOL1



31 aeruginosin NOL2



32 aeruginosin NOL3



33 aeruginosin NOL4

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
34	aeruginosin NOL5	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
35	aeruginosin NOL6	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
36	aeruginosin NOL7	M	<i>Nodularia spumigena</i>	10.1371/journal.pone.0073618
37	varlaxin 1046A	B	<i>Nostoc</i> sp.	10.1039/D1OB02454J
38	varlaxin 1022A	B	<i>Nostoc</i> sp.	10.1039/D1OB02454J

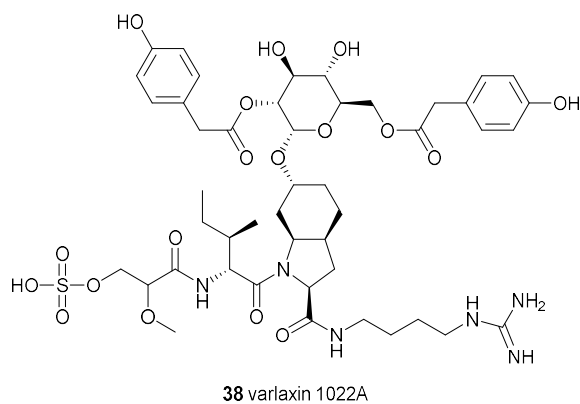
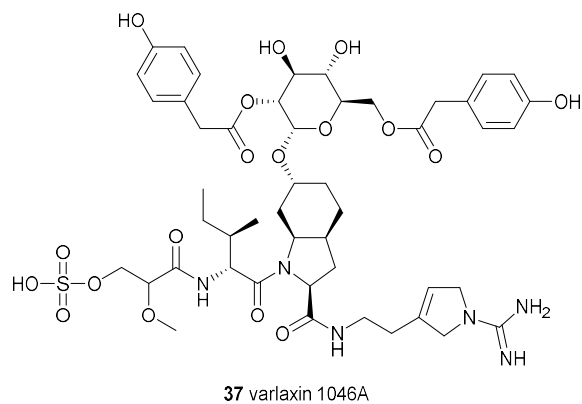
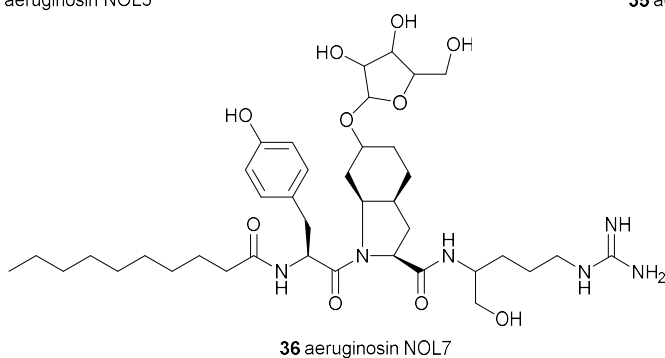
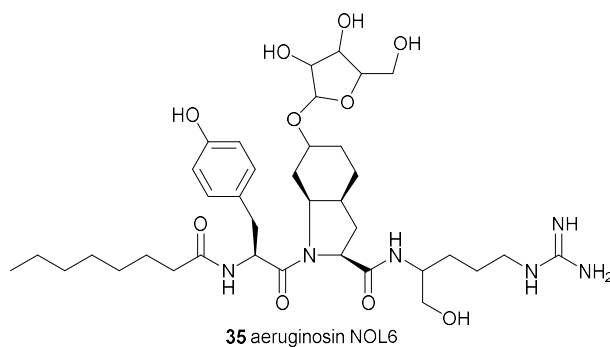
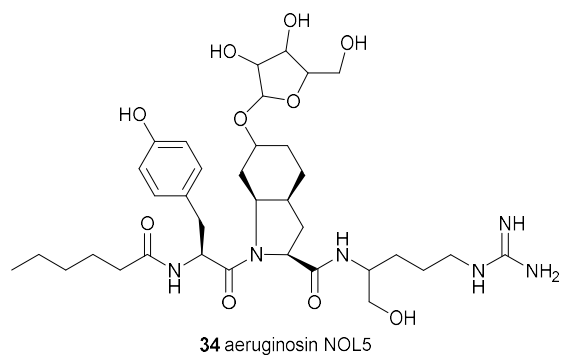
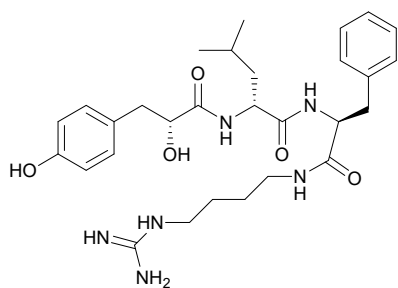
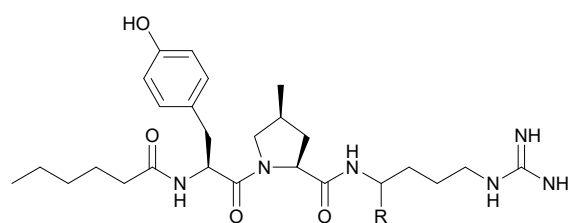


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
39	pseudoaeruginosin KT554	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x
40	pseudoaeruginosin NS1	O	<i>Nodularia spumigena</i>	10.1021/cb5004306
41	pseudoaeruginosin NS2	O	<i>Nodularia spumigena</i>	10.1021/cb5004306
42	suomilide B	F	<i>Nostoc</i> sp.	10.3389/fmicb.2023.1130018
43	suomilide C	F	<i>Nostoc</i> sp.	10.3389/fmicb.2023.1130018
44	suomilide D	F	<i>Nostoc</i> sp.	10.3389/fmicb.2023.1130018
45	suomilide E	F	<i>Nostoc</i> sp.	10.3389/fmicb.2023.1130018
46	spumigin J	F	<i>Anabaena compacta</i>	10.1021/np300282a
47	spumigin K	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/acs.jnatprod.7b00370
48	spumigin L	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/acs.jnatprod.7b00370
49	spumigin M	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/acs.jnatprod.7b00370
50	spumigin N	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/acs.jnatprod.7b00370

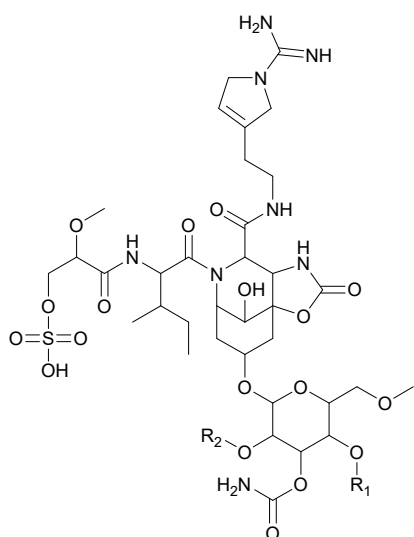


39 Pseudoaeruginosin KT554

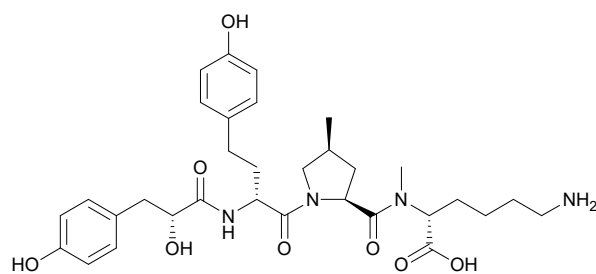


40 pseudoaeruginosin NS1 R1 CHO

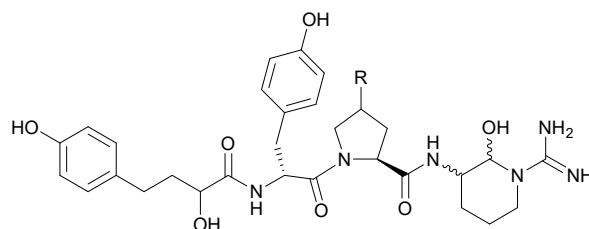
41 pseudoaeruginosin NS2 R1 CH2OH



42 suomilide B R₁ hexanoic acid R₂ butyric acid
 43 suomilide C R₁ H R₂ butyric acid
 44 suomilide D R₁ H R₂ hexanoic acid
 45 suomilide E R₁ butyric acid R₂ butyric acid



46 spumigin J

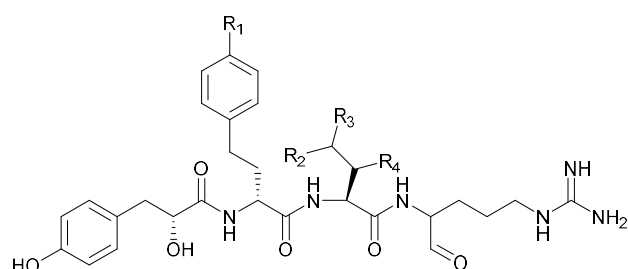
47 spumigin K R CH₃ D-Argal48 spumigin L R CH₃ L-Argal

49 spumigin M R H D-Argal

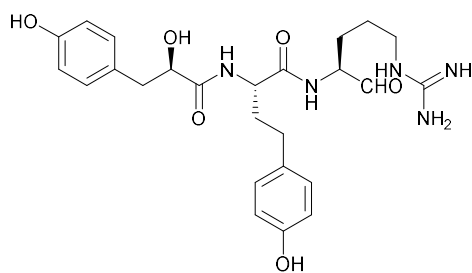
50 spumigin N R H L-Argal

Table S1. (continued)

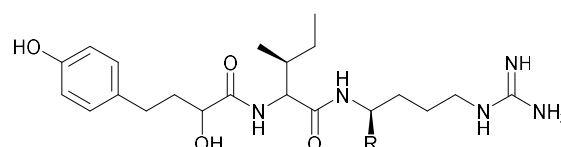
#	Compound	Habitat	Producing organism	DOI
51	pseudospumigin A	B	<i>Nostoc</i> sp.	10.3389/fmicb.2017.01963
52	pseudospumigin B	B	<i>Nostoc</i> sp.	10.3389/fmicb.2017.01963
53	pseudospumigin C	B	<i>Nostoc</i> sp.	10.3389/fmicb.2017.01963
54	pseudospumigin D	B	<i>Nostoc</i> sp.	10.3389/fmicb.2017.01963
55	pseudospumigin E	B	<i>Nostoc</i> sp.	10.3389/fmicb.2017.01963
56	pseudospumigin F	B	<i>Nostoc</i> sp.	10.3389/fmicb.2017.01963
57	nostosin G	F	<i>Dolichospermum</i> sp.	10.1021/acs.jnatprod.2c00382
58	nostosin A	F	<i>Nostoc</i> sp.	10.1021/np500106w
59	nostosin B	F	<i>Nostoc</i> sp.	10.1021/np500106w
60	spiroidesin B	F	<i>Dolichospermum</i> sp.	10.1021/acs.jnatprod.2c00382
61*	microguanidine KT636	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x
62*	microguanidine DA368	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844



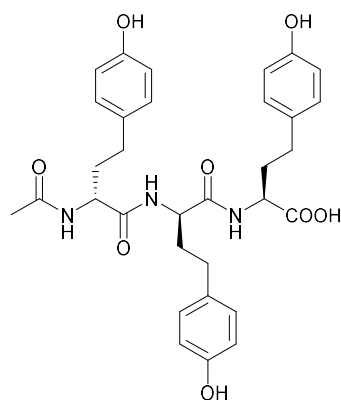
51 pseudospumigin A	R ₁	OH	R ₂	Ile
52 pseudospumigin B	R ₁	OH	R ₂	Leu
53 pseudospumigin C	R ₁	OH	R ₂	Val
54 pseudospumigin D	R ₁	H	R ₂	Ile
55 pseudospumigin E	R ₁	H	R ₂	Leu
56 pseudospumigin F	R ₁	H	R ₂	Val



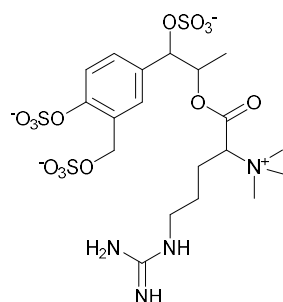
57 nostosin G



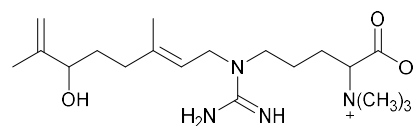
58 nostosin A	R	-CHO
59 nostosin B	R	-CH ₂ OH



60 spiroidesin B



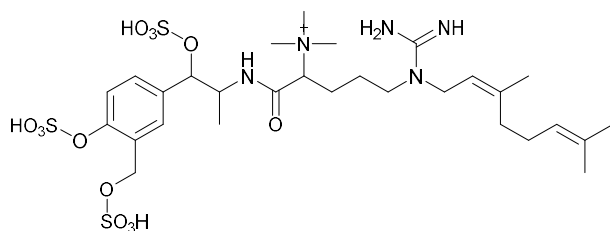
61* microguanidine KT636



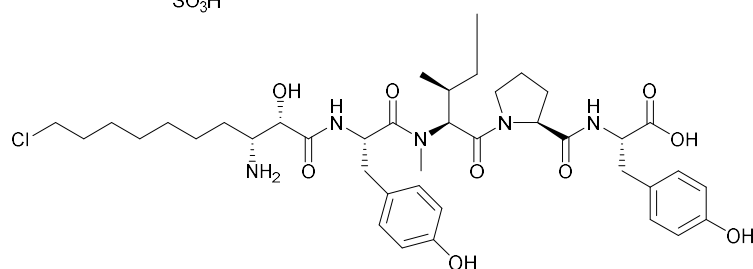
62* microguanidine DA368

Table S1. (continued)

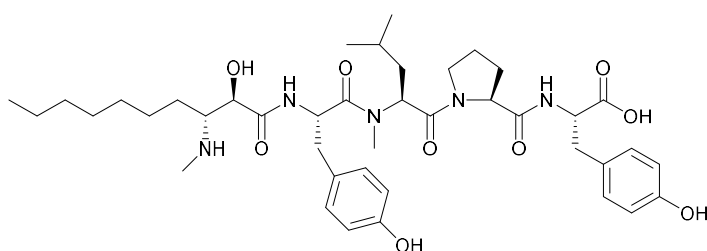
#	Compound	Habitat	Producing organism	DOI
63*	microguanidine amide 771	F	<i>Microcystis aeruginosa</i>	10.1021/acschembio.8b00918
64	microginin GH787	F	<i>Microcystis</i> sp.	10.1016/j.tet.2011.04.042
65	microginin KR767	F	<i>Microcystis</i> sp.	10.3390/md16030078
66	microginin KR801	F	<i>Microcystis</i> sp.	10.3390/md16030078
67	microginin KR835	F	<i>Microcystis</i> sp.	10.3390/md16030078



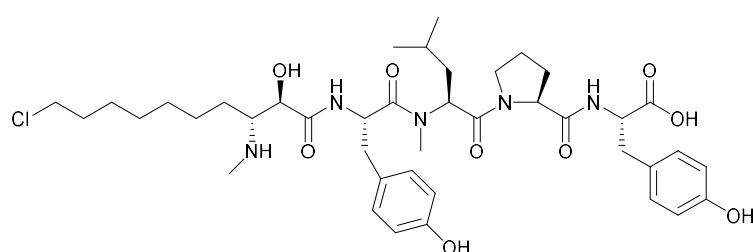
63* microguanidine amide 771



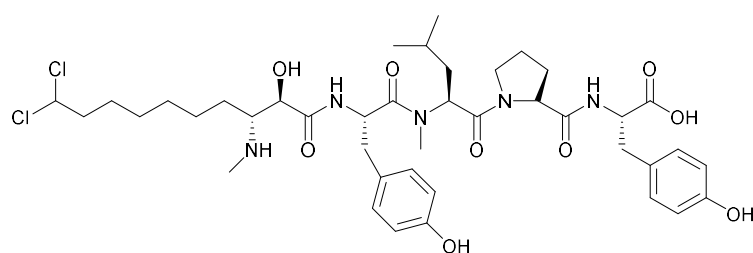
64 microginin GH787



65 microginin KR767



66 microginin KR801



67 microginin KR835

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
67	microginin KR835	F	<i>Microcystis</i> sp.	10.3390/md16030078
68	microginin KR787	F	<i>Microcystis</i> sp.	10.3390/md16030078
69	microginin KR604	F	<i>Microcystis</i> sp.	10.3390/md16030078
70	microginin KR638	F	<i>Microcystis</i> sp.	10.3390/md16030078
71	microginin KR781	F	<i>Microcystis</i> sp.	10.3390/md16030078
72	microginin KR815	F	<i>Microcystis</i> sp.	10.3390/md16030078
73	microginin FR3	F	<i>Microcystis</i> sp.	10.3390/md16030078
74	microginin FR4	F	<i>Microcystis</i> sp.	10.3390/md16030078

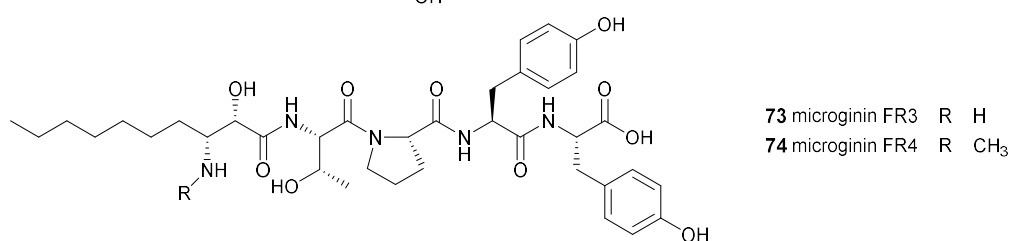
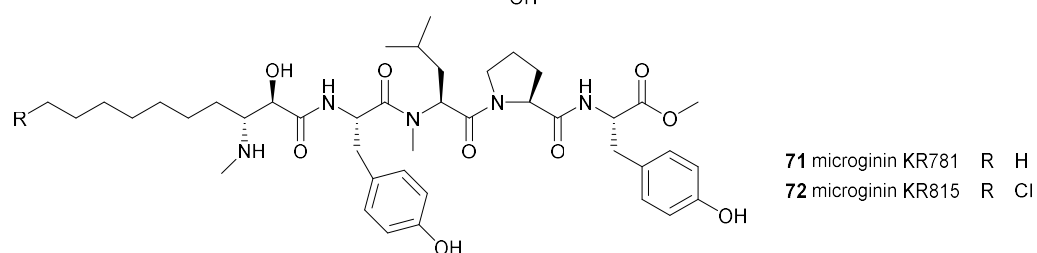
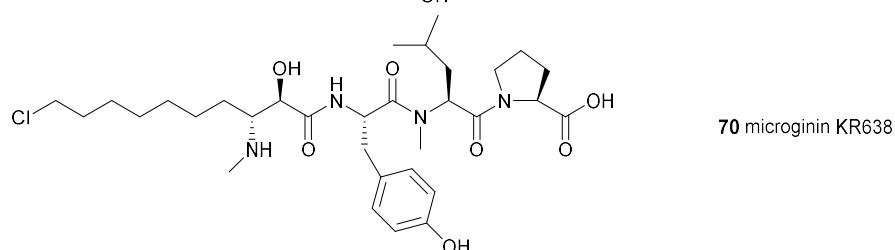
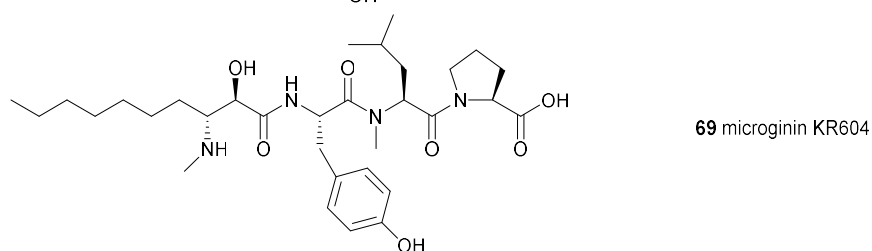
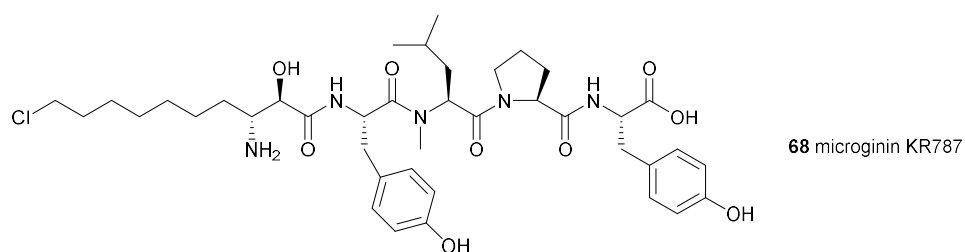


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
75	microginin 680	F	<i>Microcystis aeruginosa</i>	10.1016/j.tetlet.2016.03.039
76	microginin 646	F	<i>Microcystis aeruginosa</i>	10.1016/j.tetlet.2016.03.039
77	microginin 612	F	<i>Microcystis aeruginosa</i>	10.1016/j.tetlet.2016.03.039
78	microginin 674	F	<i>Microcystis aeruginosa</i>	10.1021/acs.jnatprod.7b00829
79	microginin 690	F	<i>Microcystis aeruginosa</i>	10.1021/acs.jnatprod.7b00829
80	microginin 704	F	<i>Microcystis aeruginosa</i>	10.1021/acs.jnatprod.7b00829
81	microginin 527	F	<i>Microcystis aeruginosa</i>	10.1021/acs.jnatprod.7b00829
82	microginin 511	F	<i>Microcystis aeruginosa</i>	10.1021/acs.jnatprod.7b00829

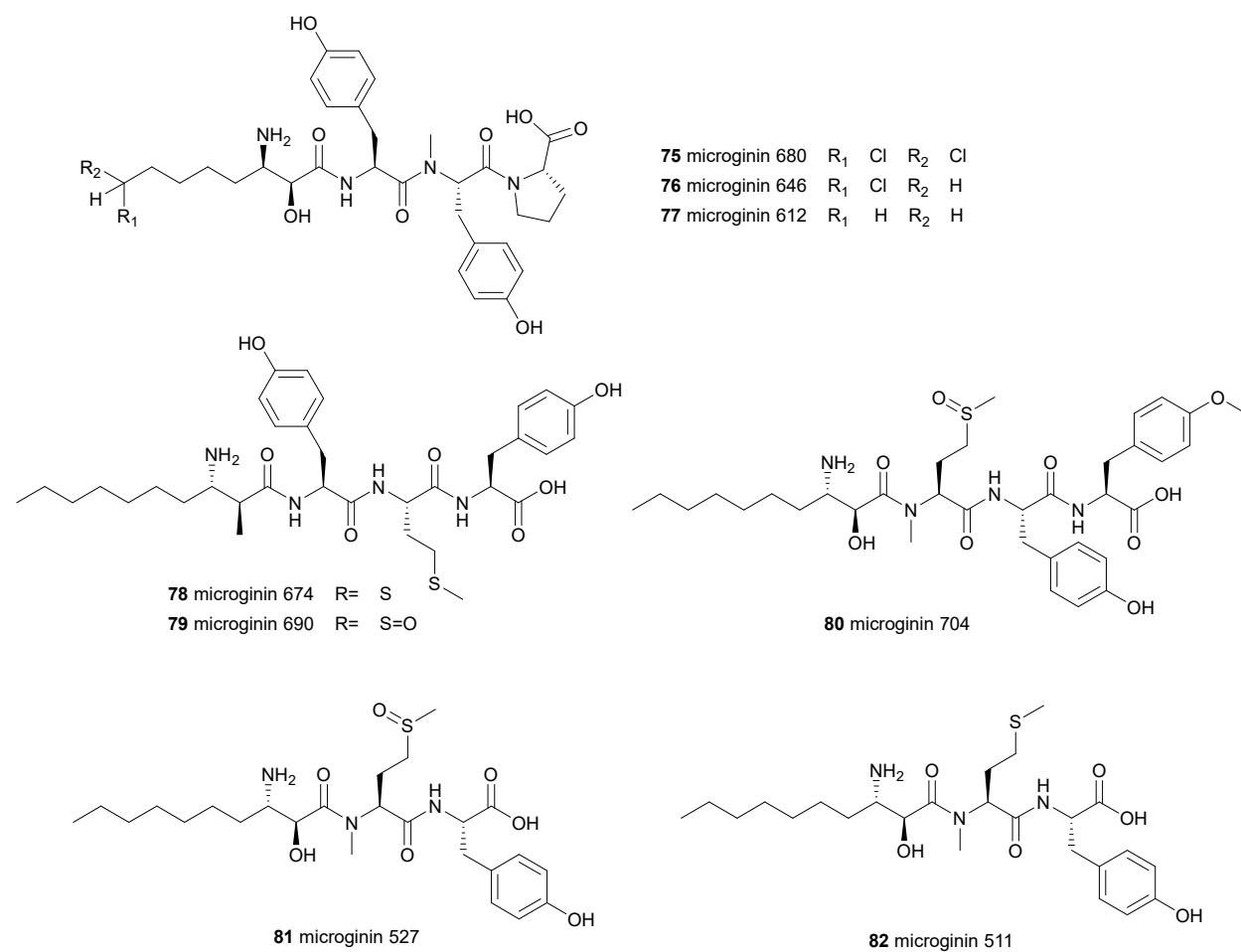
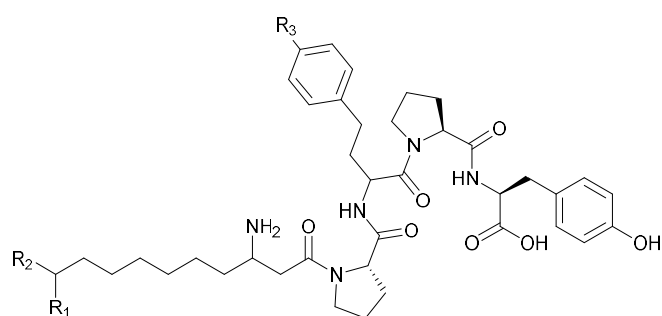
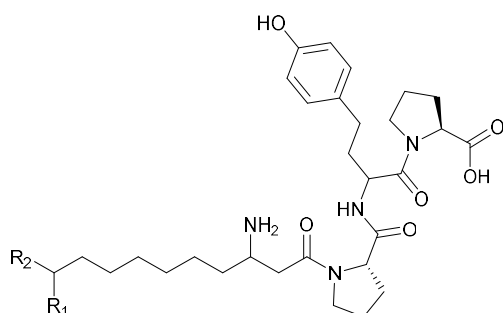


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
83	microginin 789	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
84	microginin 755	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
85	microginin 721	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
86	microginin 773	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
87	microginin 739	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
88	microginin 705	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
89	microginin 626	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
90	microginin 592	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389
91	microginin 558	F	<i>Microcystis aeruginosa</i>	10.1021/acssynbio.2c00389



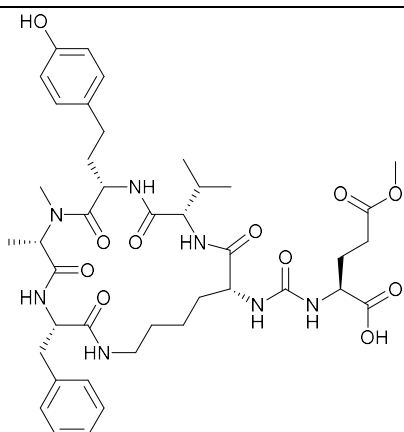
83	microginin 789	R ₁	Cl	R ₂	Cl	R ₃	OH
84	microginin 755	R ₁	Cl	R ₂	H	R ₃	OH
85	microginin 721	R ₁	H	R ₂	H	R ₃	OH
86	microginin 773	R ₁	Cl	R ₂	Cl	R ₃	H
87	microginin 739	R ₁	Cl	R ₂	H	R ₃	H
88	microginin 705	R ₁	H	R ₂	H	R ₃	H



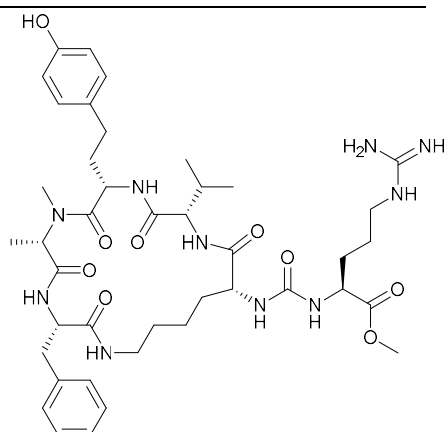
89	microginin 626	R ₁	H	R ₂	H
90	microginin 592	R ₁	Cl	R ₂	H
91	microginin 558	R ₁	Cl	R ₂	Cl

Table S1. (continued)

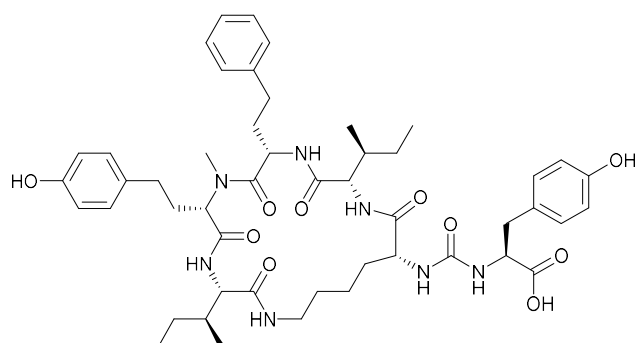
#	Compound	Habitat	Producing organism	DOI
92	anabaenopeptin MM823	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
93	anabaenopeptin MM850	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
94	anabaenopeptin MM913	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
95	anabaenopeptin DA850	F	<i>Microcystis aeruginosa</i>	10.1021/np4006844
96	anabaenopeptin KB906	F	<i>Microcystis</i> spp.	10.3390/md13042347
97	anabaenopeptin KB899	F	<i>Microcystis</i> spp.	10.3390/md13042347



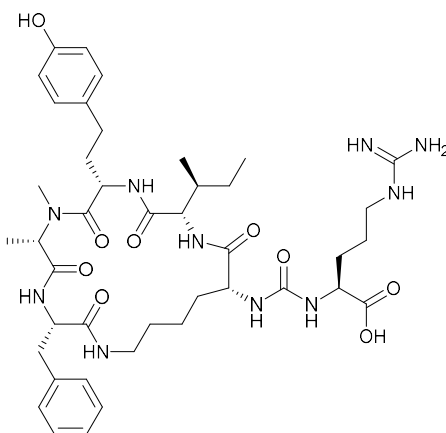
92 anabaenopeptin MM823



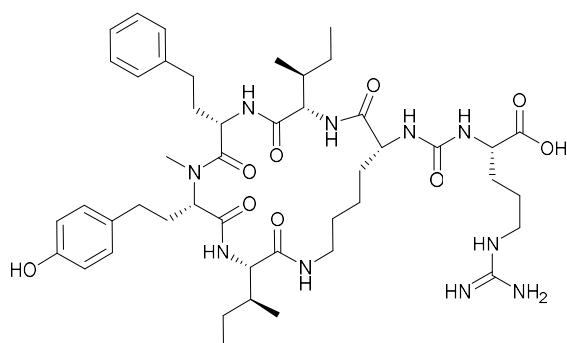
93 anabaenopeptin MM850



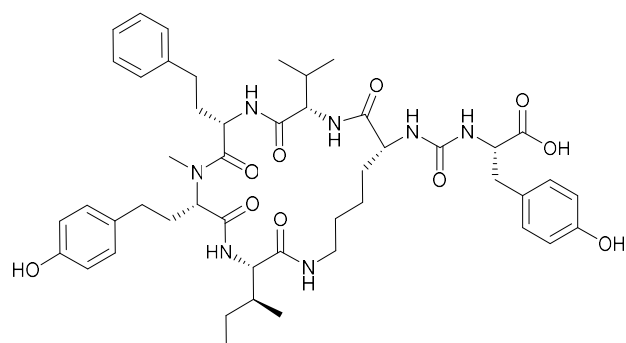
94 anabaenopeptin MM913



95 anabaenopeptin DA850



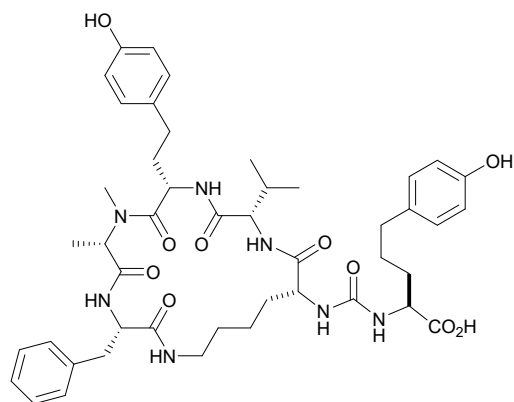
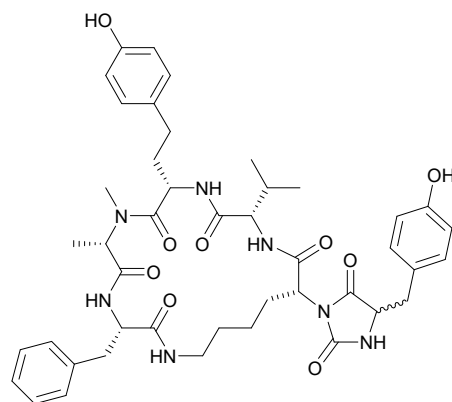
96 anabaenopeptin KB906



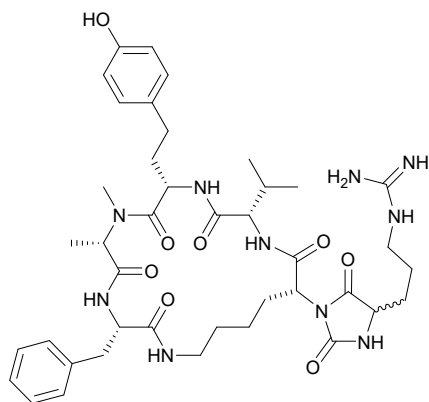
97 anabaenopeptin KB899

Table S1. (continued)

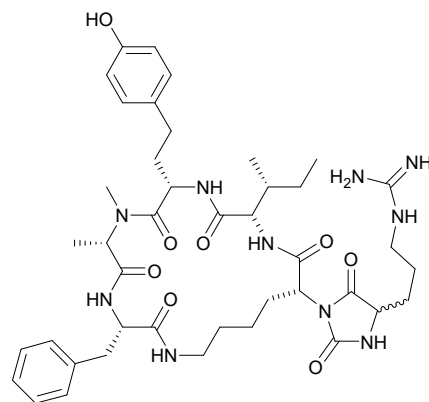
#	Compound	Habitat	Producing organism	DOI
98	¹ [Dht]-anabaenopeptin A	F	<i>Microcystis aeruginosa</i>	10.3390/md21070401
99	hydantoanabaenopeptin A	F	<i>Microcystis aeruginosa</i>	10.3390/md21070401
100	hydantoanabaenopeptin B	F	<i>Microcystis aeruginosa</i>	10.3390/md21070401
101	hydantoanabaenopeptin F	F	<i>Microcystis aeruginosa</i>	10.3390/md21070401
102	hydanto-oscillamide Y	F	<i>Microcystis aeruginosa</i>	10.3390/md21070401
103	¹ [Dht]-hydantoanabaenopeptin A	F	<i>Microcystis aeruginosa</i>	10.3390/md21070401

98 ¹[Dht]-Anabaenopeptin A

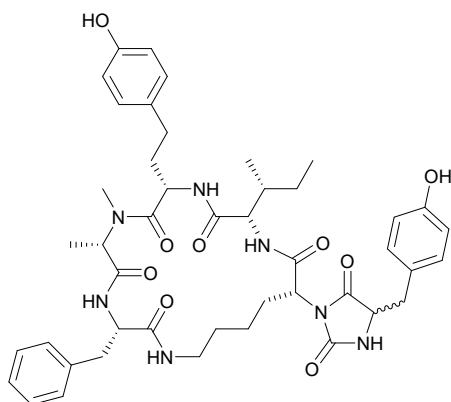
99 hydantoanabaenopeptin A



100 hydantoanabaenopeptin B



101 hydantoanabaenopeptin F



102 hydanto-oscillamide Y

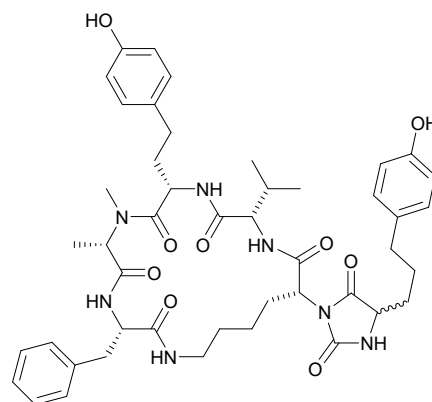
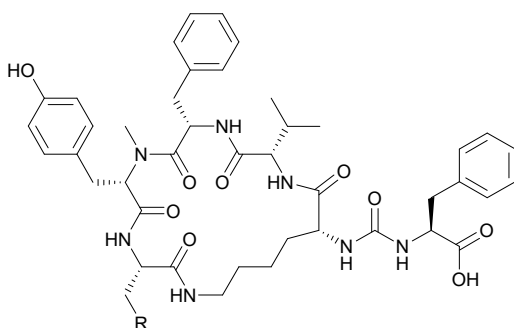
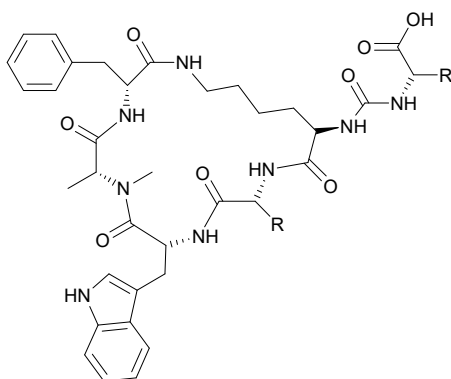
103 ¹[Dht]-Hydantoanabaenopeptin A

Table S1. (continued)

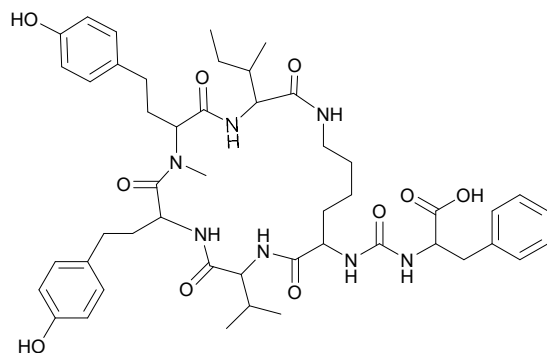
#	Compound	Habitat	Producing organism	DOI
104	nodulapeptin 901	F	<i>Nodularia spumigena</i>	10.1016/j.tet.2011.11.056
105	nodulapeptin 917	F	<i>Nodularia spumigena</i>	10.1016/j.tet.2011.11.056
106	nodulapeptin 899	F	<i>Nodularia spumigena</i>	10.1016/j.tet.2011.11.056
107	anabaenopeptin 788	F	<i>Brasilonema</i> sp.	10.3390/molecules25173786
108	anabaenopeptin 802 (2a)	F	<i>Brasilonema</i> sp.	10.3390/molecules25173786
109	anabaenopeptin 802 (2b)	F	<i>Brasilonema</i> sp.	10.3390/molecules25173786
110	anabaenopeptin 816	F	<i>Brasilonema</i> sp.	10.3390/molecules25173786
111	anabaenopeptin 899	F	<i>Woronichinia naegeliana</i>	10.1080/09670262.2020.1813809
112	anabaenopeptin AP820Ne	M	<i>Nostoc edaphicum</i>	10.3390/ijerph191912346



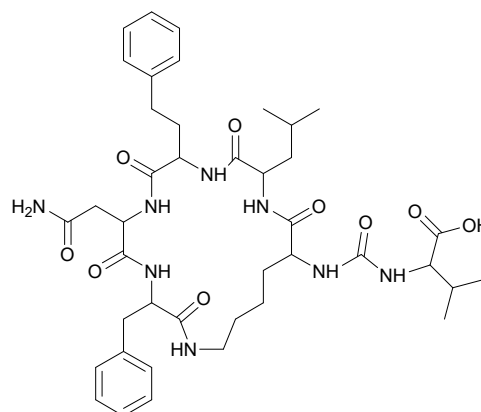
- 104** Nodulapeptin 901 R = CH₂SCH₃
105 Nodulapeptin 917 R = CH₂S(=O)CH₃
106 Nodulapeptin 899 R = OAc



- 107** anabaenopeptin 788 R₁ CH-(CH₃)₂ R₂ CH-(CH₃)₂
108 anabaenopeptin 802 (2a) R₁ CH-(CH₃)₂ R₂ HC-CH(CH₃)-CH₃
109 anabaenopeptin 802 (2b) R₁ CH-(CH₃)₂ R₂ CH₂-CH-(CH₃)₂
110 anabaenopeptin 816 R₁ CH-CH₂-(CH₃)₂ R₂ CH-CH₂-(CH₃)₂



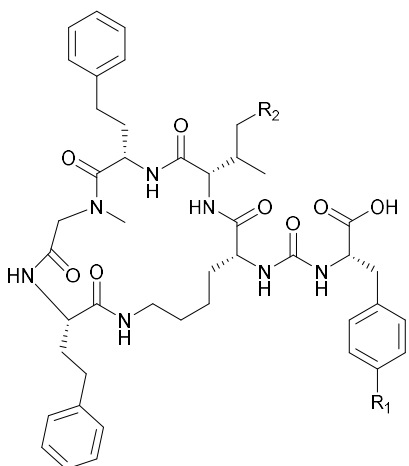
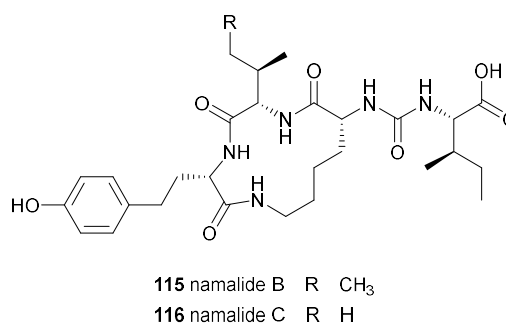
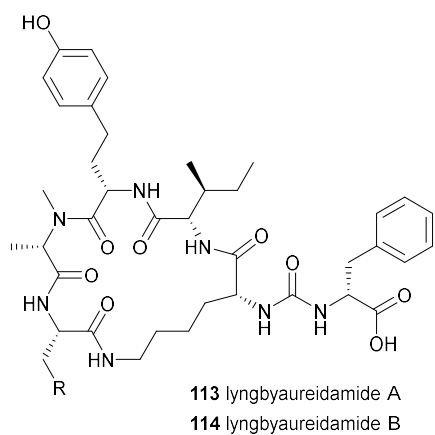
111 anabaenopeptin 899



112 anabaenopeptin AP820Ne

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
113	lyngbyaureidamide A	F	<i>Lyngbya</i> sp.	10.1016/j.phytochem.2011.09.017
114	lyngbyaureidamide B	F	<i>Lyngbya</i> sp.	10.1016/j.phytochem.2011.09.017
115	namalide B	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/acs.jnatprod.7b00370
116	namalide C	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/acs.jnatprod.7b00370
117	anabaenopeptin KVJ827	F	<i>Nostoc punctiforme</i>	10.1128/AEM.01510-17
118	anabaenopeptin KVJ841	F	<i>Nostoc punctiforme</i>	10.1128/AEM.01510-17
119	anabaenopeptin KVJ811	F	<i>Nostoc punctiforme</i>	10.1128/AEM.01510-17
120	anabaenopeptin 679	F	assemblage	10.1016/j.bmcl.2016.09.008



- 117 anabaenopeptin KVJ827 R₁ OH R₂ H
118 anabaenopeptin KVJ827 R₁ OH R₂ Me
119 anabaenopeptin KVJ827 R₁ H R₂ H

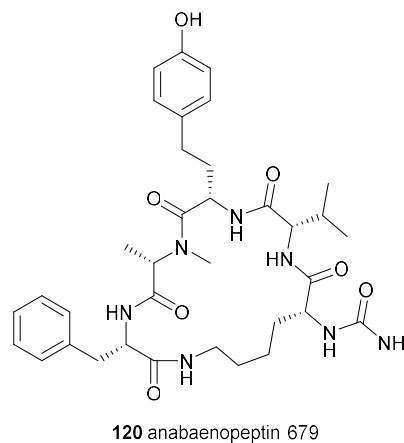


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
121	anabaenopeptin SA1	F	<i>Nostoc calcicola</i>	10.1038/srep32958
122	anabaenopeptin SA2	F	<i>Planktothrix rubescens</i>	10.1038/srep32958
123	anabaenopeptin SA3	F	<i>Planktothrix rubescens</i>	10.1038/srep32958
124	anabaenopeptin SA4	F	<i>Nostoc insulare</i>	10.1038/srep32958
125	anabaenopeptin SA5	F	<i>Nostoc insulare</i>	10.1038/srep32958
126	anabaenopeptin SA6	F	<i>Nostoc</i> sp.	10.1038/srep32958

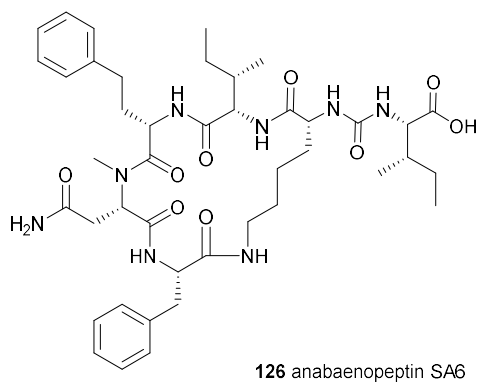
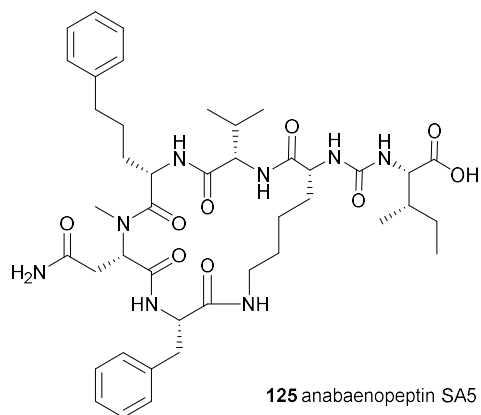
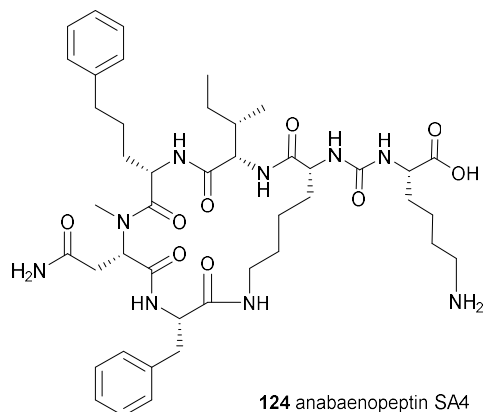
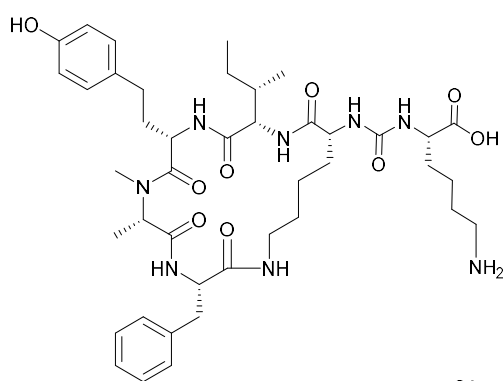
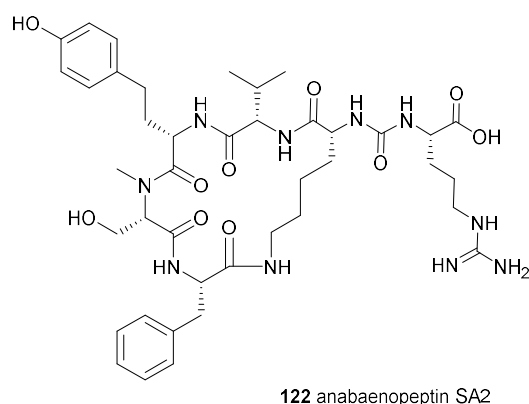
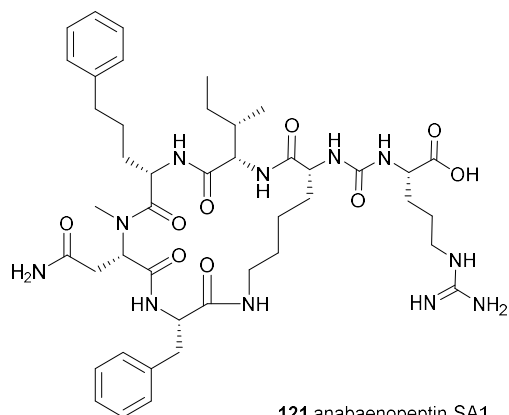


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
127	anabaenopeptin SA7	F	<i>Nostoc calcicola</i>	10.1038/srep32958
128	anabaenopeptin SA8	F	<i>Nostoc calcicola</i>	10.1038/srep32958
129	anabaenopeptin SA9	F	<i>Nostoc</i> sp.	10.1038/srep32958
130	anabaenopeptin SA10	F	<i>Nostoc</i> sp.	10.1038/srep32958
131	anabaenopeptin SA11	F	<i>Nostoc</i> sp.	10.1038/srep32958
132	anabaenopeptin SA12	F	<i>Nostoc</i> sp.	10.1038/srep32958

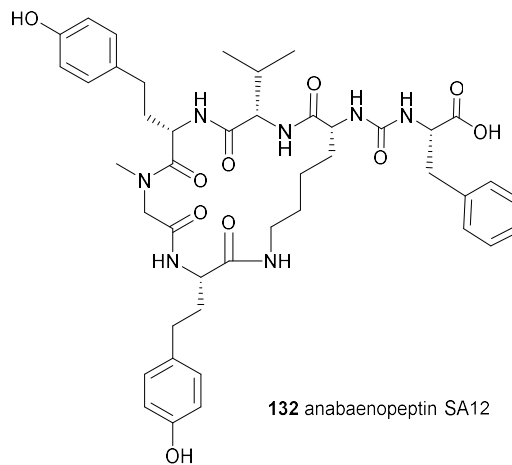
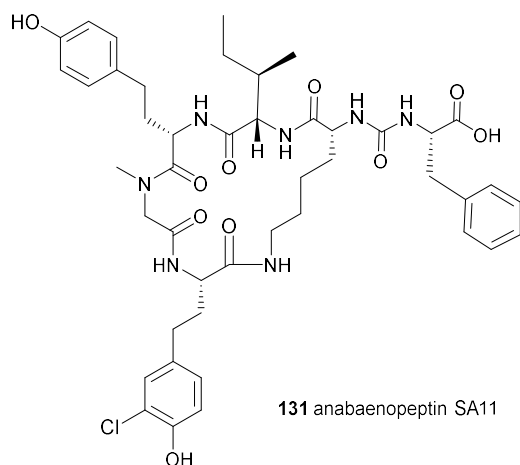
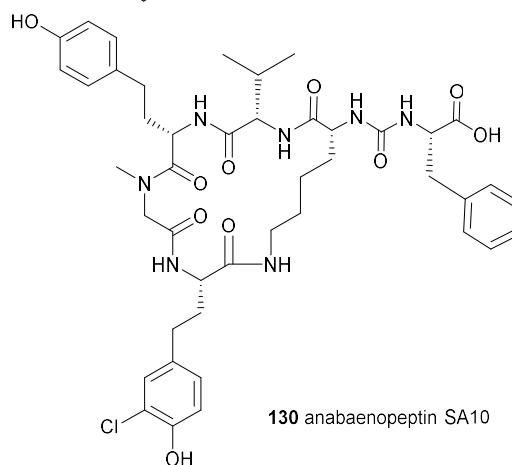
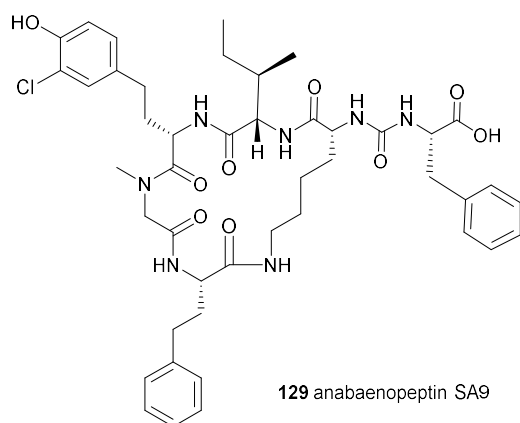
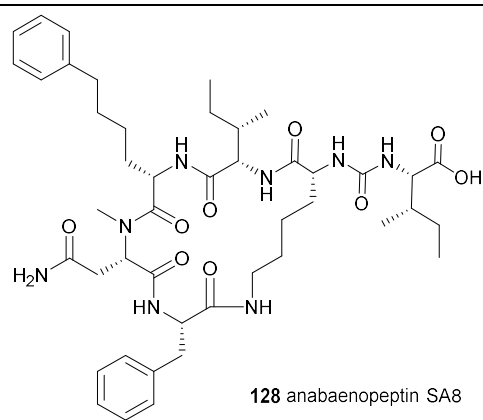
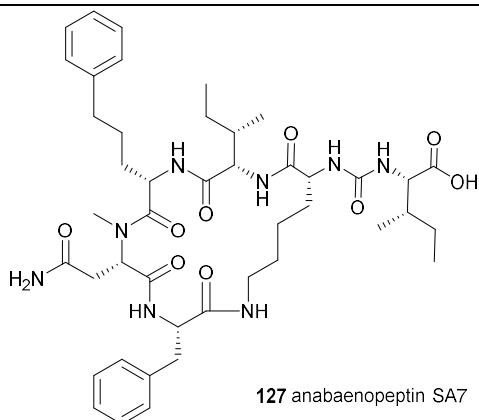
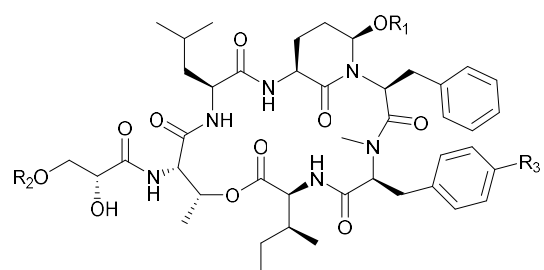
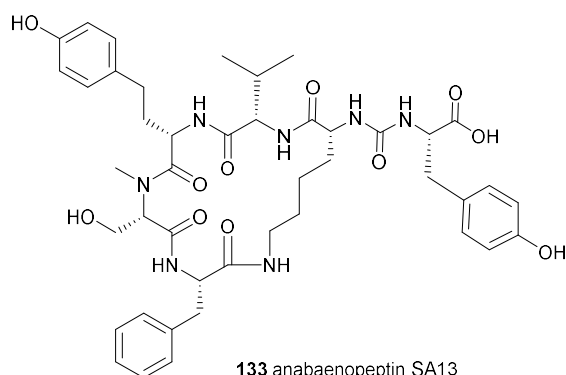
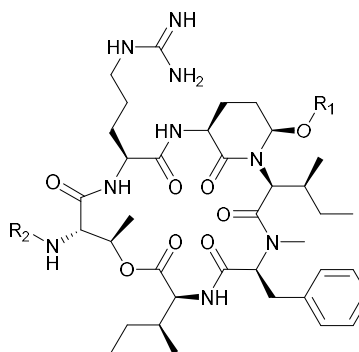
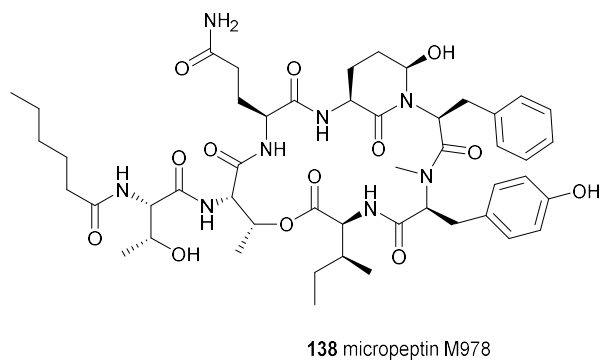


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
133	anabaenopeptin SA13	F	<i>Planktothrix rubescens</i>	10.1038/srep32958
134	micropeptin MM836	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
135	micropeptin MM850	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
136	micropeptin MM916	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
137	micropeptin MM932	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
138	micropeptin MM978	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.09.067
139	micropeptin MZ845	F	<i>Microcystis</i> sp.	10.1021/np900546u
140	micropeptin MZ859	F	<i>Microcystis</i> sp.	10.1021/np900546u
141	micropeptin MZ939A	F	<i>Microcystis</i> sp.	10.1021/np900546u
142	micropeptin MZ925	F	<i>Microcystis</i> sp.	10.1021/np900546u
143	micropeptin MZ939B	F	<i>Microcystis</i> sp.	10.1021/np900546u
144	micropeptin MZ1019	F	<i>Microcystis</i> sp.	10.1021/np900546u
145	micropeptin MZ771	F	<i>Microcystis</i> sp.	10.1021/np900546u



134 micropeptin MM836	R ₁	H	R ₂	H	R ₃	H
135 micropeptin MM850	R ₁	CH ₃	R ₂	H	R ₃	H
136 micropeptin MM916	R ₁	H	R ₂	SO ₃ ⁻	R ₃	H
137 micropeptin MM932	R ₁	H	R ₂	SO ₃ ⁻	R ₃	OH



139 micropeptin MZ845	R ₁	H	R ₂	W
140 micropeptin MZ859	R ₁	Me	R ₂	W
141 micropeptin MZ939A	R ₁	Me	R ₂	X
142 micropeptin MZ925	R ₁	H	R ₂	Y
143 micropeptin MZ939B	R ₁	Me	R ₂	Y
144 micropeptin MZ1019	R ₁	Me	R ₂	Z
145 micropeptin MZ771	R ₁	Me	R ₂	H

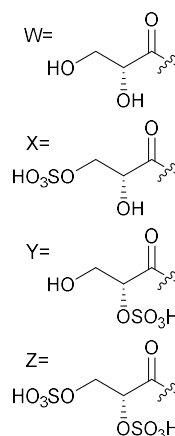


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
146	micropeptin DR1056	F	<i>Microcystis aeruginosa</i>	10.1016/j.tet.2010.06.071
147	micropeptin DR1060	F	<i>Microcystis aeruginosa</i>	10.1016/j.tet.2010.06.071
148	micropeptin DR1006	F	<i>Microcystis aeruginosa</i>	10.1016/j.tet.2010.06.071
149	micropeptin GH979	F	<i>Microcystis</i> sp.	10.1016/j.tet.2011.04.042
150	micropeptin HM978	F	<i>Microcystis</i> sp.	10.1016/j.tet.2011.04.042
151	micropeptin HA983	F	<i>Microcystis</i> sp.	10.1016/j.tet.2011.04.042
152	micropeptin KT1042	F	<i>Microcystis aeruginosa</i>	10.1021/np200909x

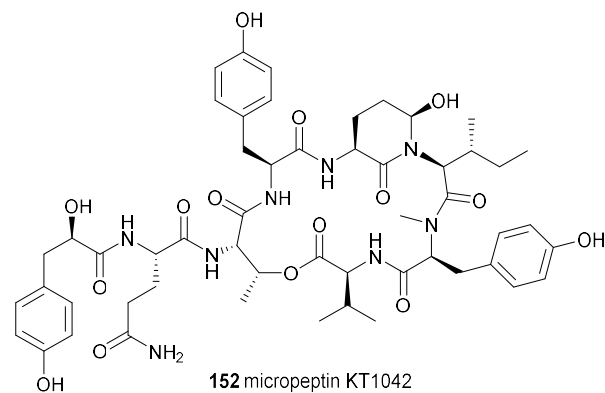
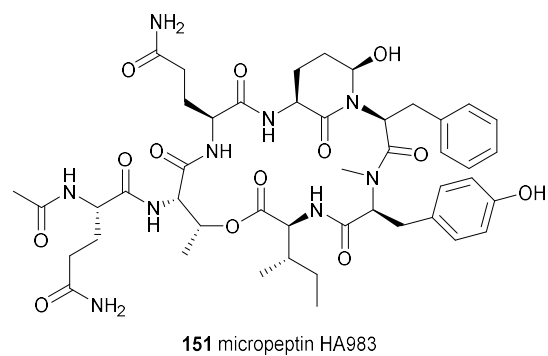
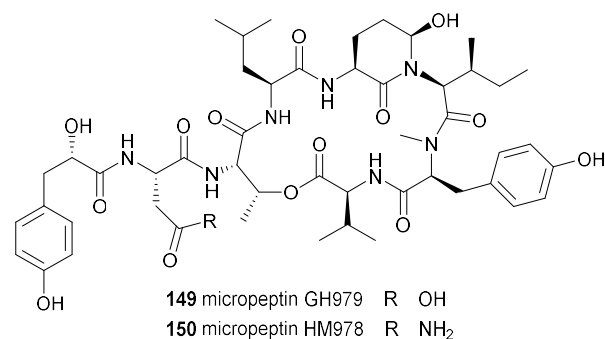
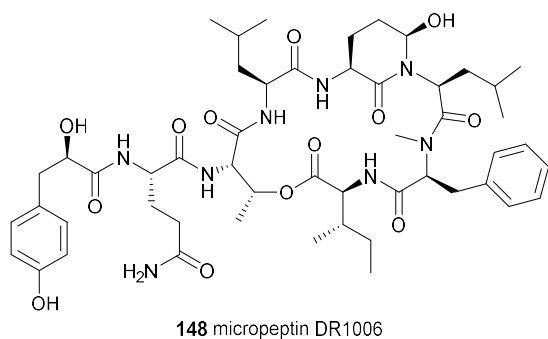
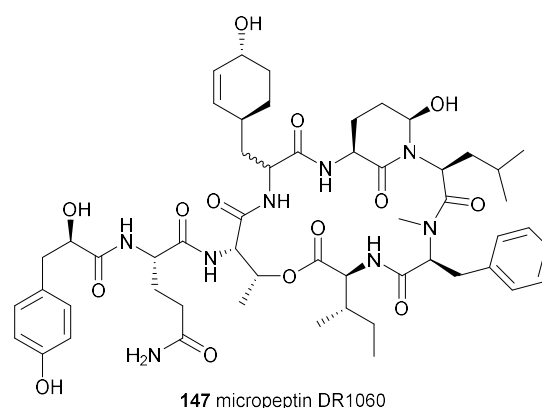
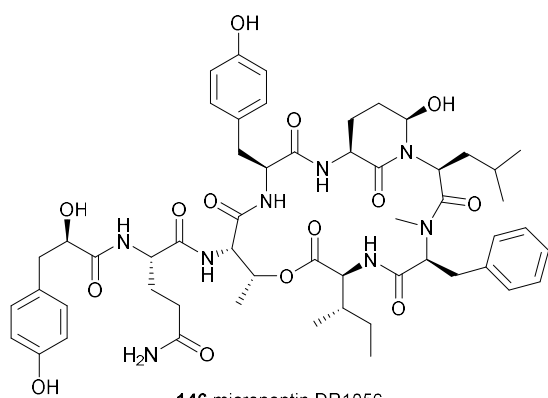
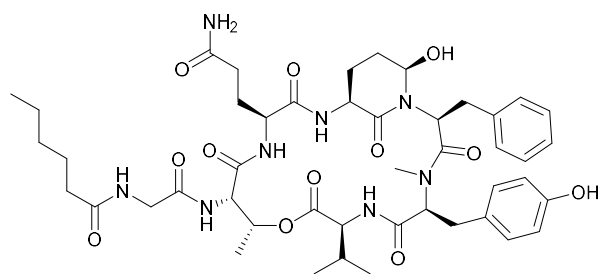
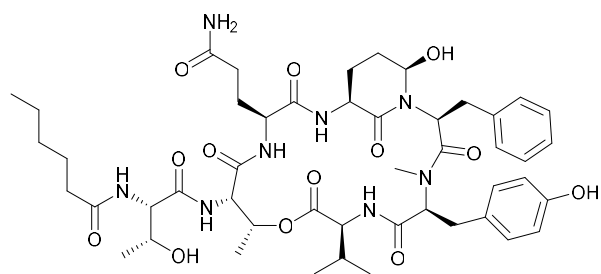


Table S1. (continued)

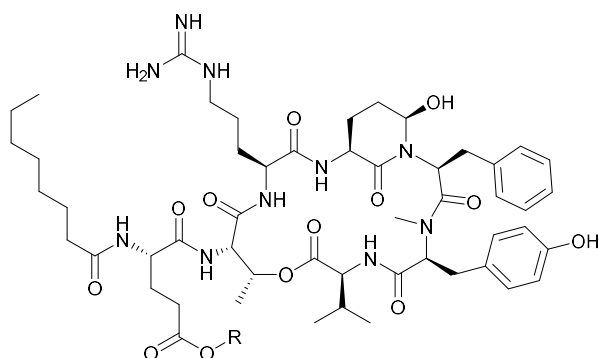
#	Compound	Habitat	Producing organism	DOI
153	micropeptin LH920	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
154	micropeptin LH1021	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
155	micropeptin LH1048	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
156	micropeptin LH1062	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
157	micropeptin LH911A	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
158	micropeptin LH911B	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
169	micropeptin LH911C	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054
160	micropeptin LH925	F	<i>Microcystis</i> spp.	10.1016/j.tet.2013.09.054



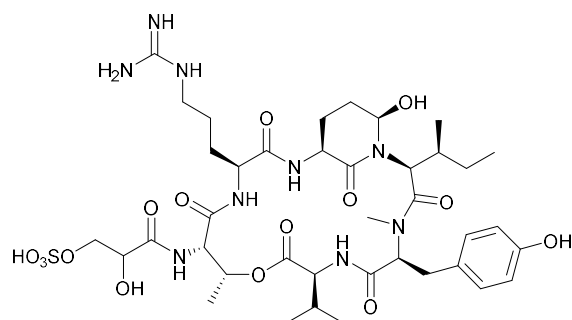
153 micropeptin LH920



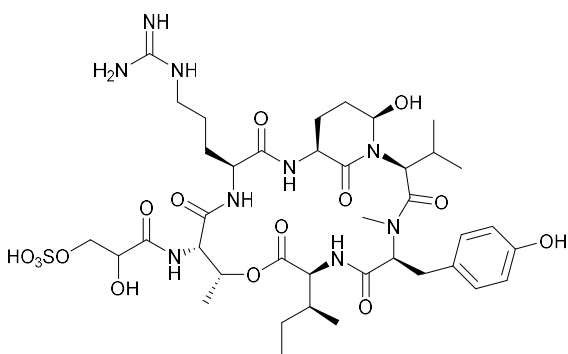
154 micropeptin LH1021



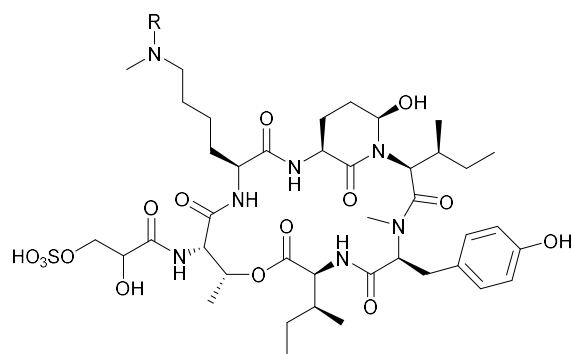
155 micropeptin LH1048 R H

156 micropeptin LH1062 R CH₃

157 micropeptin LH911A



158 micropeptin LH911B



159 micropeptin LH911C R H

160 micropeptin LH925 R CH₃

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
161	micropeptin HH978	F	<i>Microcystis aeruginosa</i>	10.1021/np400281q
162	micropeptin HH960	F	<i>Microcystis aeruginosa</i>	10.1021/np400281q
163	micropeptin HH992	F	<i>Microcystis aeruginosa</i>	10.1021/np400281q
164	micropeptin 1106	F	<i>Microcystis aeruginosa</i>	10.1016/j.hal.2013.09.010
165	micropeptin 1120	F	<i>Microcystis aeruginosa</i>	10.1016/j.hal.2013.09.010
166	micropeptin KR1030	F	<i>Microcystis</i> sp.	10.1016/j.tet.2013.12.009
167	micropeptin KR1002	F	<i>Microcystis</i> sp.	10.1016/j.tet.2013.12.009
168	micropeptin KR998	F	<i>Microcystis</i> sp.	10.1016/j.tet.2013.12.009

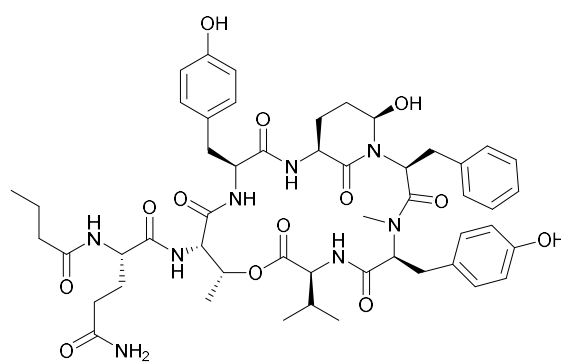
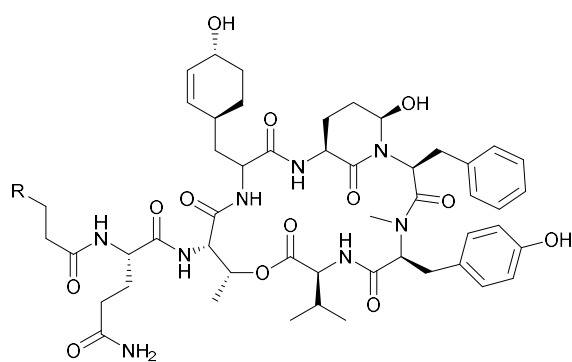
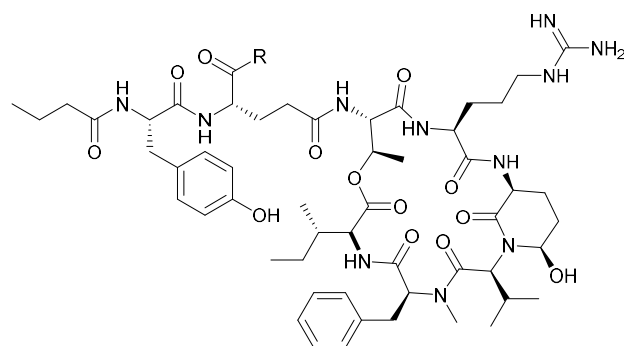
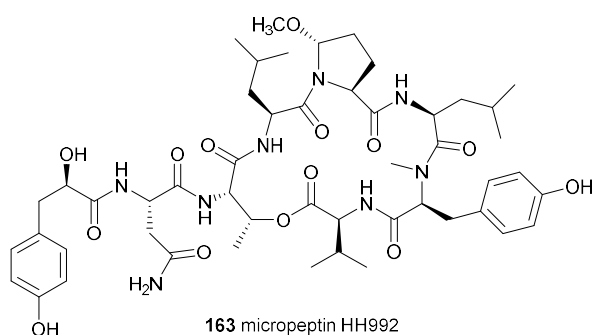
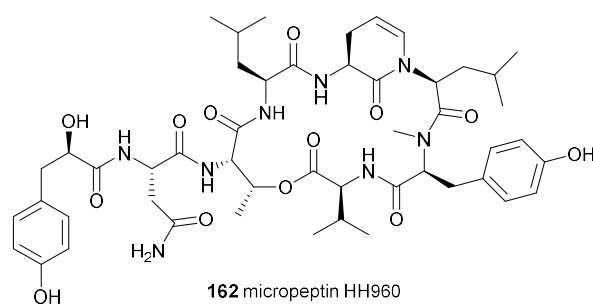
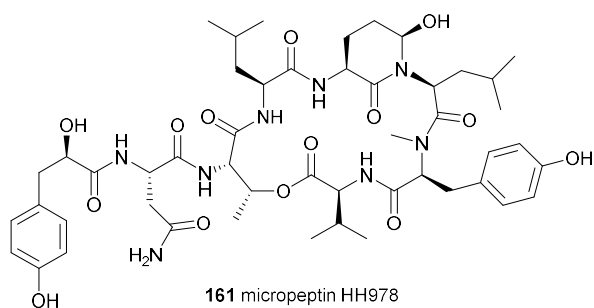
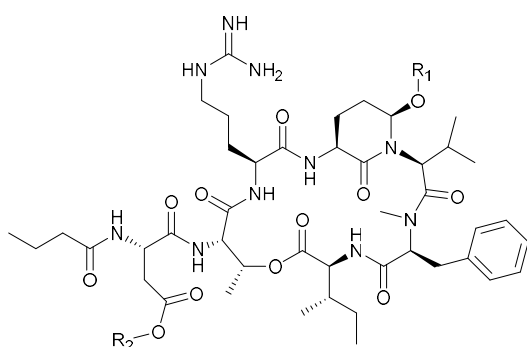
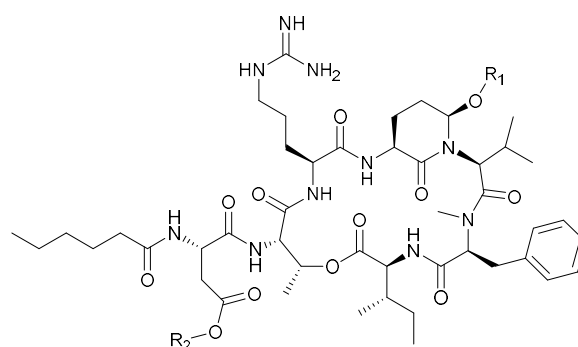


Table S1. (continued)

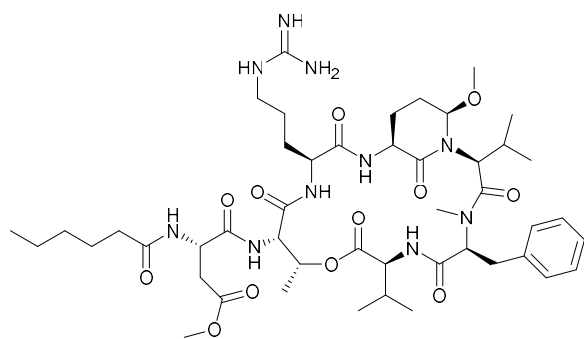
#	Compound	Habitat	Producing organism	DOI
169	micropeptin KB928	F	<i>Microcystis</i> spp.	10.3390/md13042347
170	micropeptin KB956	F	<i>Microcystis</i> spp.	10.3390/md13042347
171	micropeptin KB970A	F	<i>Microcystis</i> spp.	10.3390/md13042347
172	micropeptin KB970B	F	<i>Microcystis</i> spp.	10.3390/md13042347
173	micropeptin KB984	F	<i>Microcystis</i> spp.	10.3390/md13042347
174	micropeptin KB970C	F	<i>Microcystis</i> spp.	10.3390/md13042347
175	micropeptin KB1048	F	<i>Microcystis</i> spp.	10.3390/md13042347
176	micropeptin KB992	F	<i>Microcystis</i> spp.	10.3390/md13042347
177	micropeptin KB1046	F	<i>Microcystis</i> spp.	10.3390/md13042347



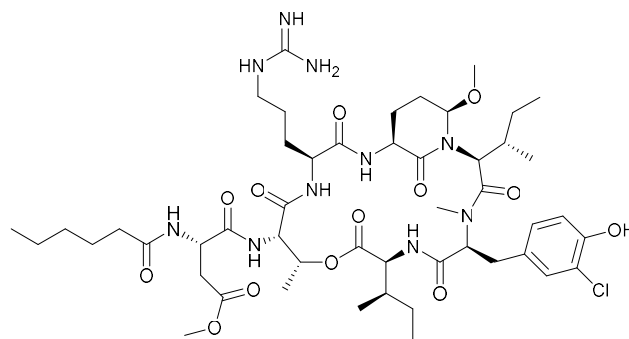
169 micropeptin KB928 R₁ H R₂ H
 170 micropeptin KB956 R₁ CH₃ R₂ CH₃



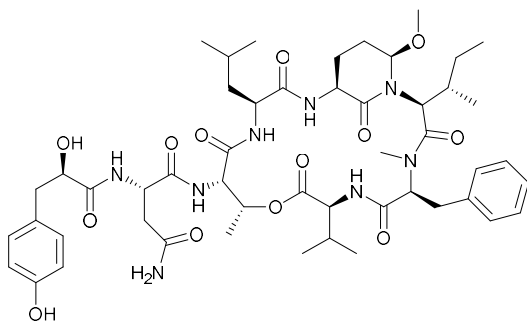
171 micropeptin KB970A R₁ H R₂ CH₃
 172 micropeptin KB970B R₁ CH₃ R₂ H
 173 micropeptin KB984 R₁ CH₃ R₂ CH₃



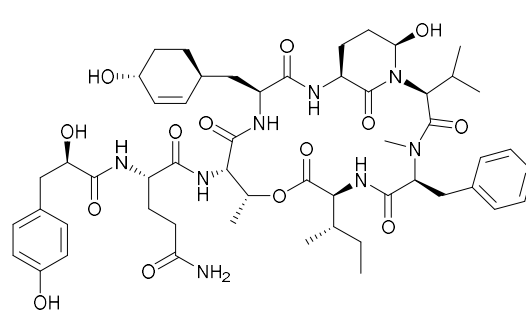
174 micropeptin KB970C



175 micropeptin KB1048



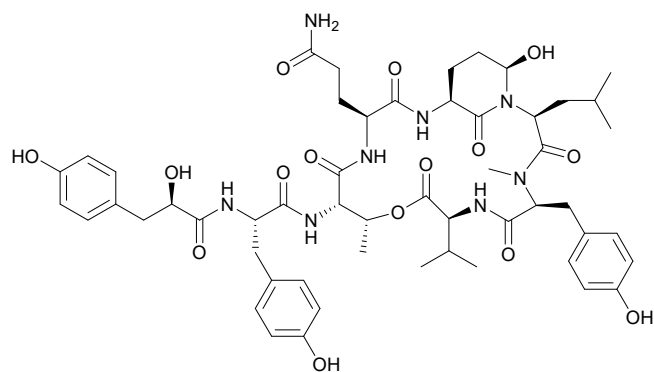
176 micropeptin KB992



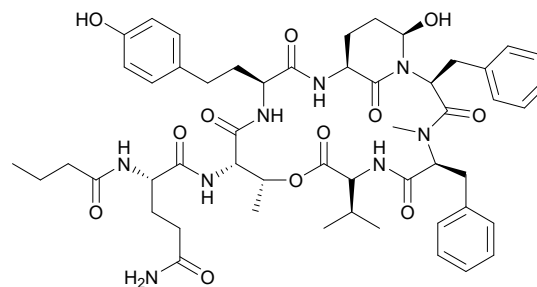
177 micropeptin KB1046

Table S1. (continued)

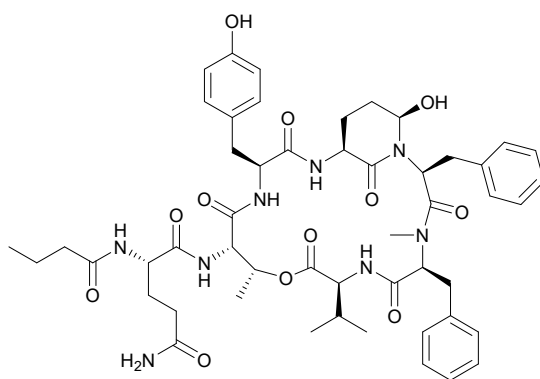
#	Compound	Habitat	Producing organism	DOI
178	micropeptin TR1058	F	<i>Microcystis</i> sp.	10.3390/md15120371
179	micropeptin 996	F	<i>Microcystis aeruginosa</i>	10.1016/j.tetlet.2018.01.087
180	micropeptin 982	F	assemblage	10.1021/acsomega.1c02025
181	micropeptin 957	F	assemblage	10.1021/acsomega.1c02025



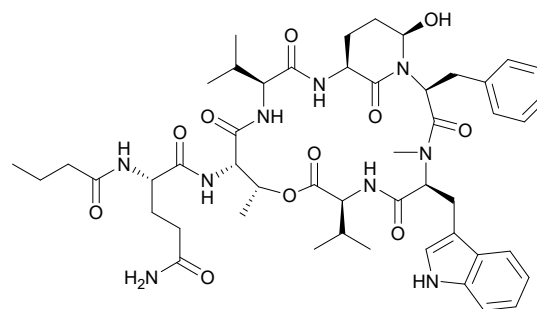
178 micropeptin TR1058



179 micropeptin 996



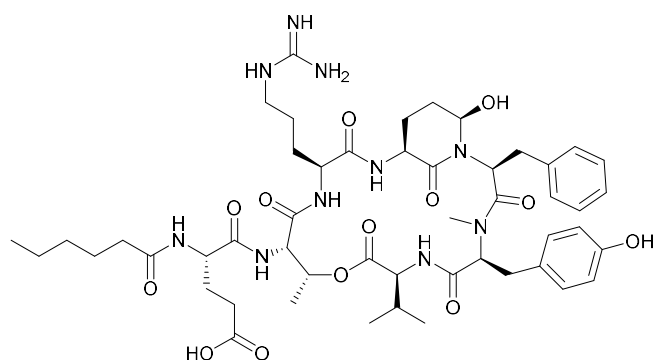
180 micropeptin 982



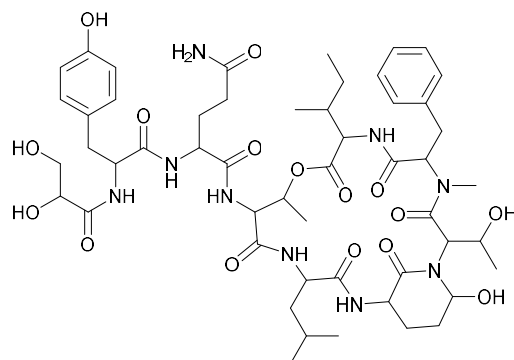
181 micropeptin 957

Table S1. (continued)

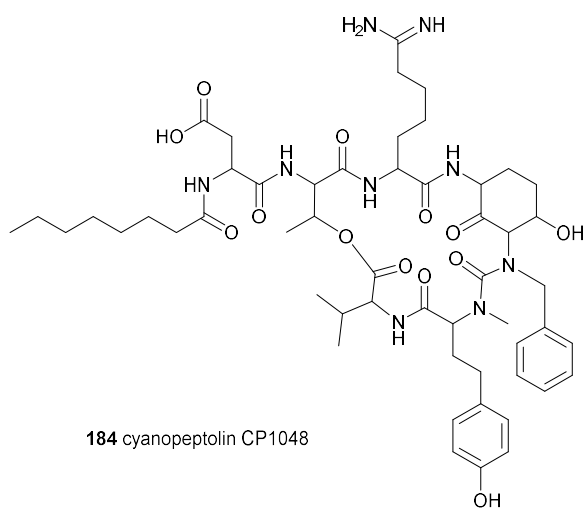
#	Compound	Habitat	Producing organism	DOI
182	cyanopeptolin 1020	F	<i>Microcystis aeruginosa</i>	10.1021/np900818c
183	cyanopeptolin 1081	F	<i>Woronichinia naegeliana</i>	10.1080/09670262.2020.1813809
184	cyanopeptolin CP1048	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
185	cyanopeptolin CP1006	M	<i>Nostoc edaphicum</i>	10.3390/md16070220



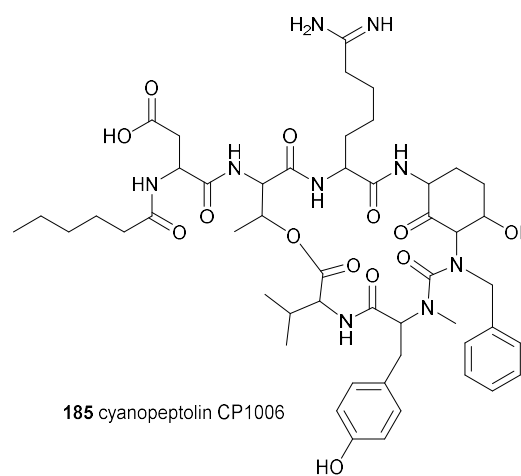
182 cyanopeptolin 1020



183 cyanopeptolin 1081



184 cyanopeptolin CP1048



185 cyanopeptolin CP1006

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
186	cyanopeptolin CP1020	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
187	cyanopeptolin CP1018	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
188	cyanopeptolin CP992	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
189	cyanopeptolin CP990	M	<i>Nostoc edaphicum</i>	10.3390/md16070220

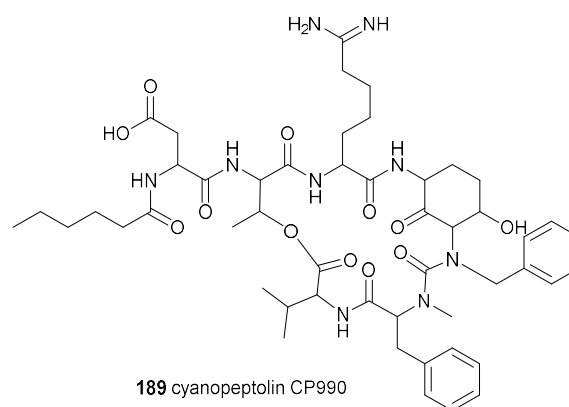
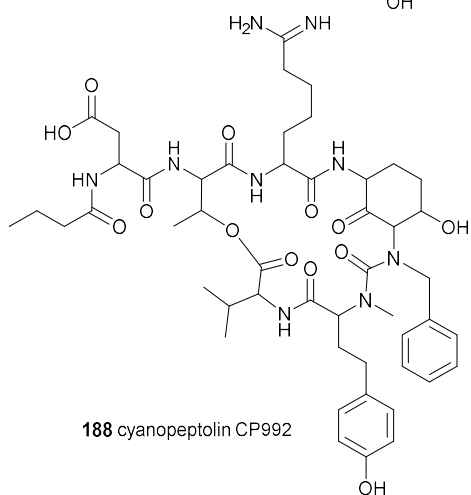
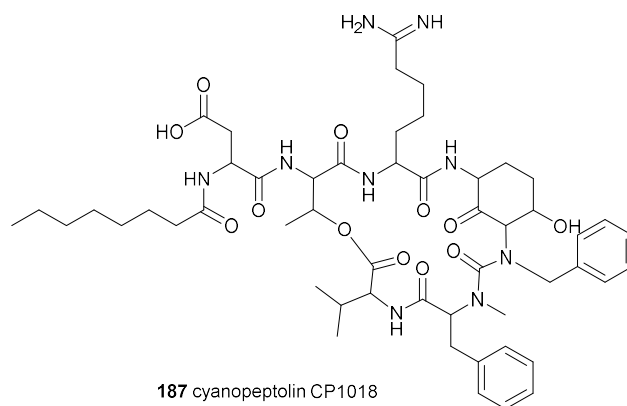
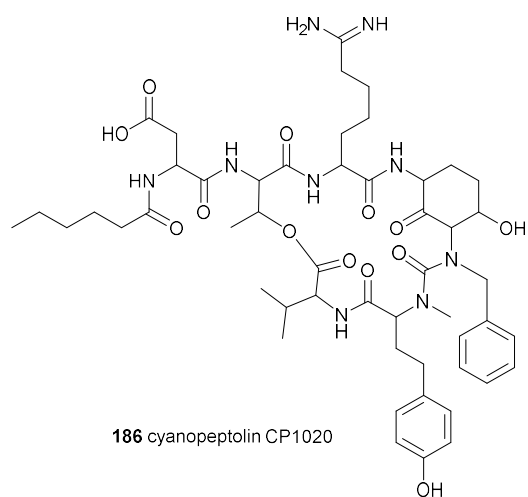


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
190	cyanopeptolin CP978	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
191	cyanopeptolin CP1027	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
192	cyanopeptolin CP1013	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
193	cyanopeptolin CP999	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
194	cyanopeptolin CP969	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
195	cyanopeptolin CP985	M	<i>Nostoc edaphicum</i>	10.3390/md16070220

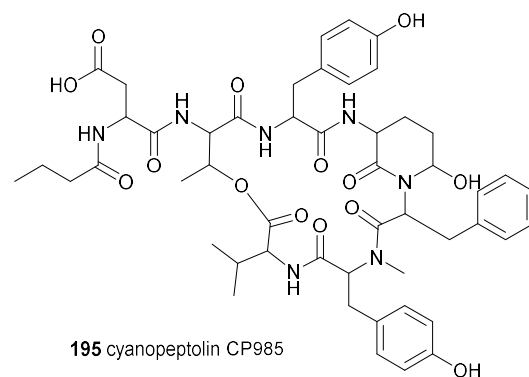
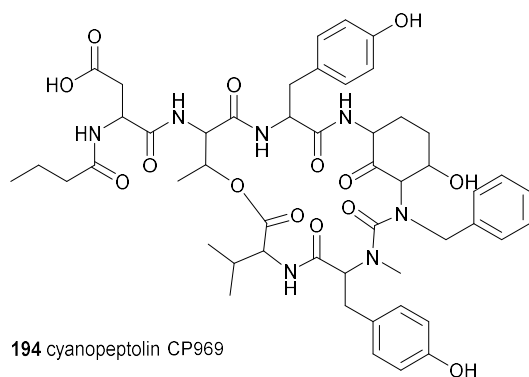
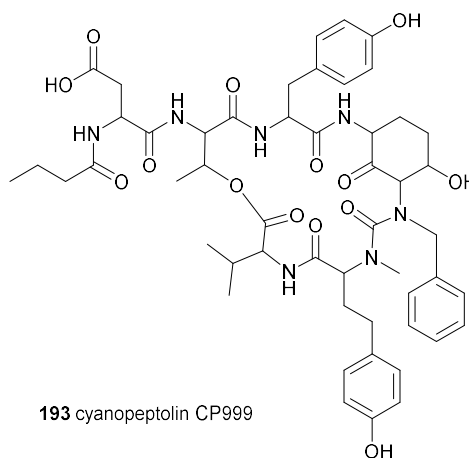
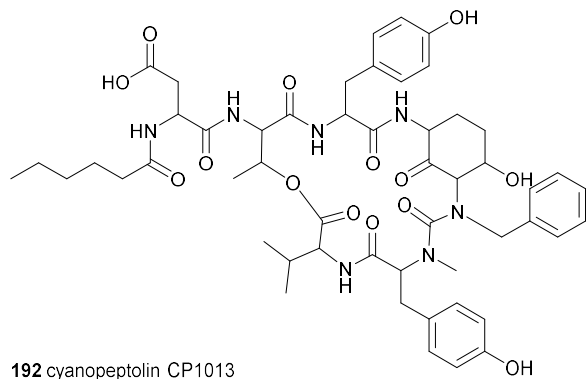
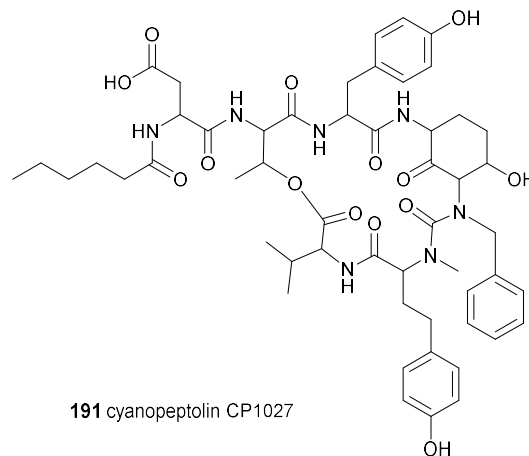
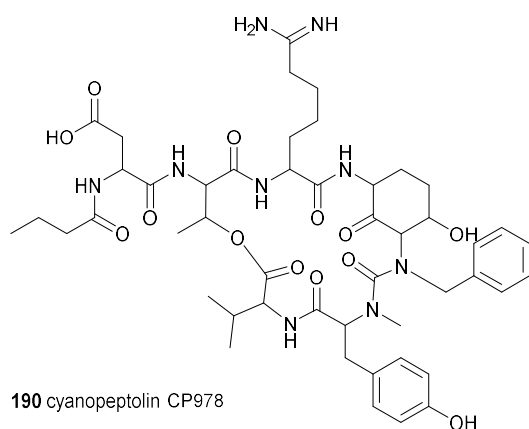


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
196	cyanopeptolin CP962	M	<i>Nostoc edaphicum</i>	10.3390/md16070220
197	cyanopeptolin CP941	M	<i>Nostoc edaphicum</i>	10.3390/md21100508
198	cyanopeptolin CP983	M	<i>Nostoc edaphicum</i>	10.3390/md21100508
199	cyanopeptolin CP919	M	<i>Nostoc edaphicum</i>	10.3390/md21100508
200	cyanopeptolin CP949	M	<i>Nostoc edaphicum</i>	10.3390/md21100508
201	stigonemapeptin	F	<i>Stigonema</i> sp.	10.1021/np300150h

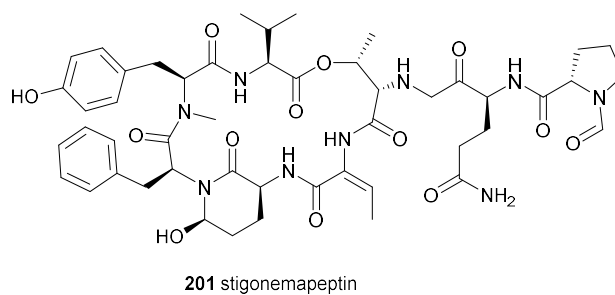
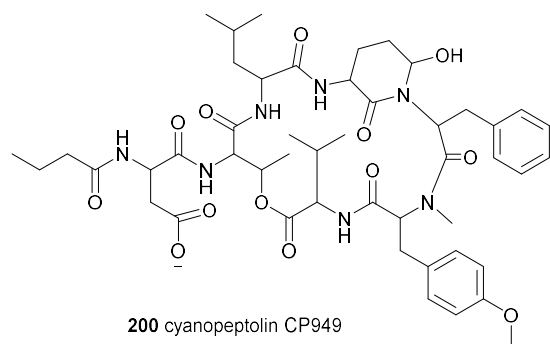
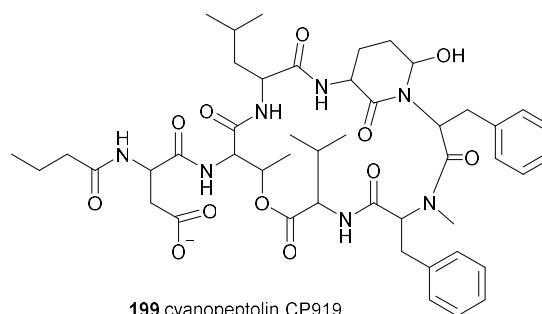
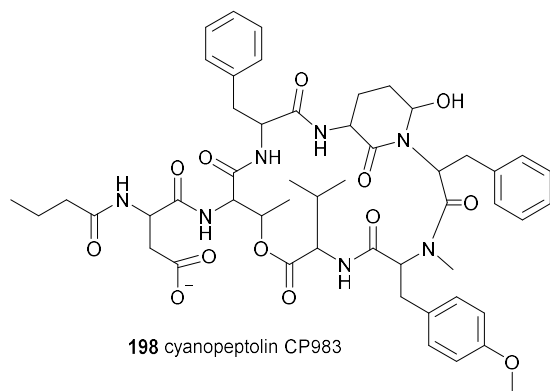
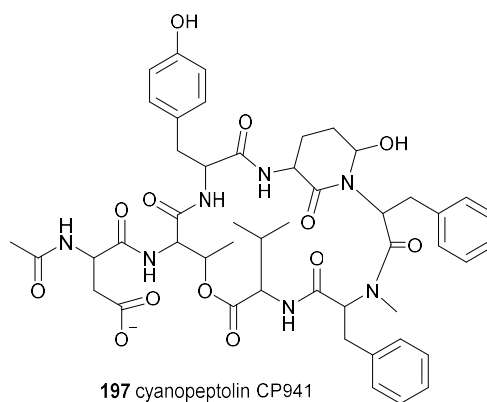
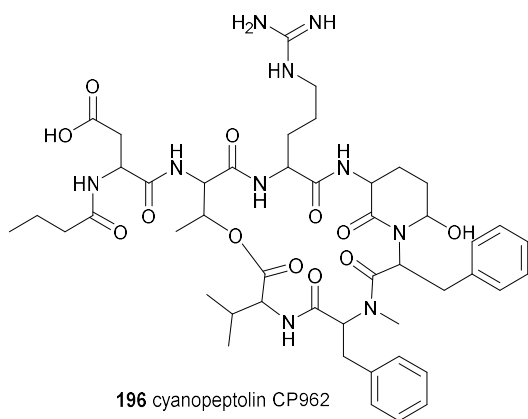
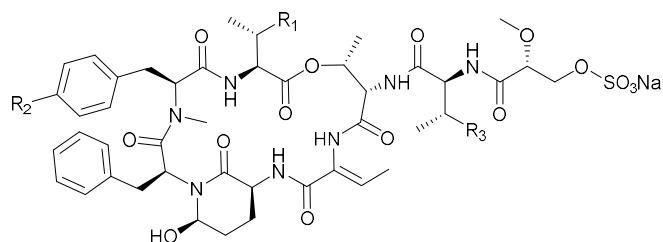
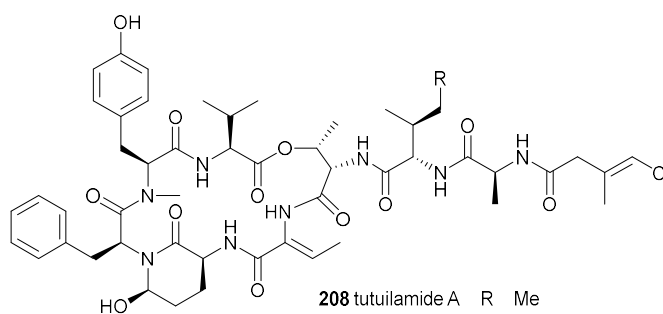


Table S1. (continued)

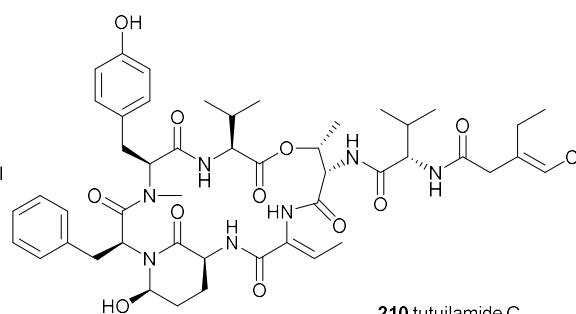
#	Compound	Habitat	Producing organism	DOI
202	symplostatin 5	M	<i>Symploca</i> sp.	10.1021/jm3017305
203	symplostatin 6	M	<i>Symploca</i> sp.	10.1021/jm3017305
204	symplostatin 7	M	<i>Symploca</i> sp.	10.1021/jm3017305
205	symplostatin 8	M	<i>Symploca</i> sp.	10.1021/jm3017305
206	symplostatin 9	M	<i>Symploca</i> sp.	10.1021/jm3017305
207	symplostatin 10	M	<i>Symploca</i> sp.	10.1021/jm3017305
208	tutuilamide A	M	<i>Schizothrix</i> sp.	10.1021/acschembio.9b00992
209	tutuilamide B	M	<i>Schizothrix</i> sp.	10.1021/acschembio.9b00992
210	tutuilamide C	M	<i>Coleofasciculus</i> sp.	10.1021/acschembio.9b00992
211	bouillomide A	M	<i>Lyngbya bouilloni</i>	10.1016/j.tetlet.2010.10.062
212	bouillomide B	M	<i>Lyngbya bouilloni</i>	10.1016/j.tetlet.2010.10.062
213	molassamide	M	<i>Dichothrix utahensis</i>	10.1021/np900603f



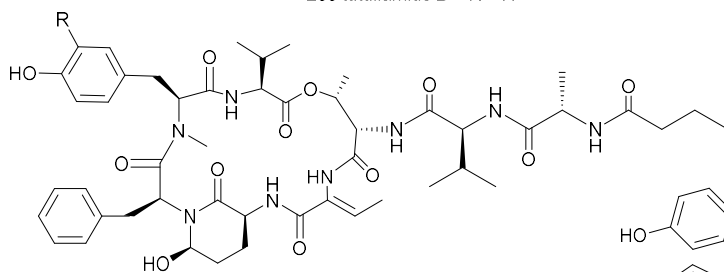
202 symplostatin 5	R ₁	Et	R ₂	H	R ₃	Me
203 symplostatin 6	R ₁	Me	R ₂	H	R ₃	Me
204 symplostatin 7	R ₁	Et	R ₂	H	R ₃	Et
205 symplostatin 8	R ₁	Et	R ₂	OH	R ₃	Me
206 symplostatin 9	R ₁	Me	R ₂	OH	R ₃	Me
207 symplostatin 10	R ₁	Et	R ₂	OH	R ₃	Et



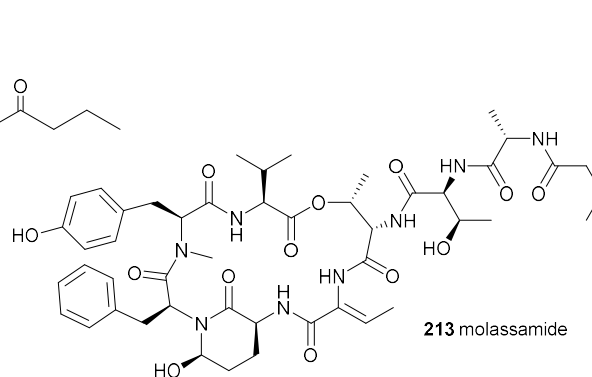
208 tutuilamide A R Me
209 tutuilamide B R H



210 tutuilamide C



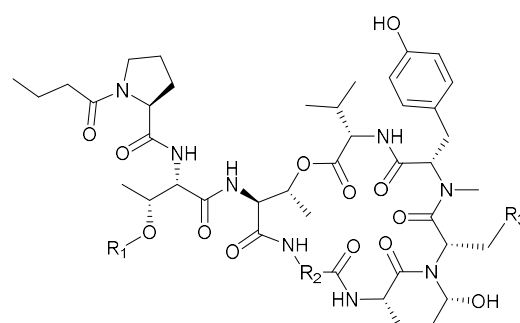
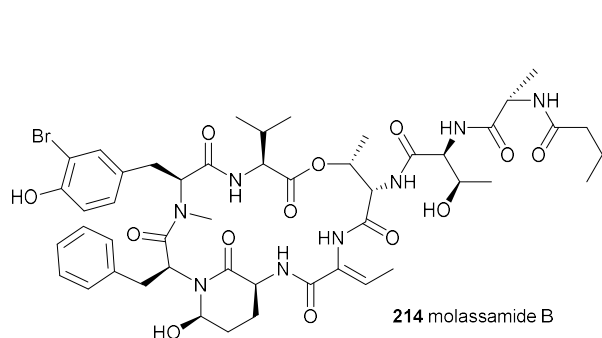
211 bouillomide A R H
212 bouillomide B R Br



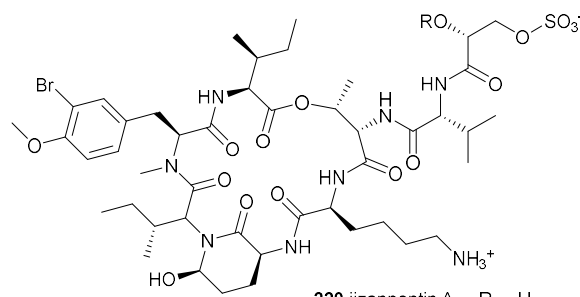
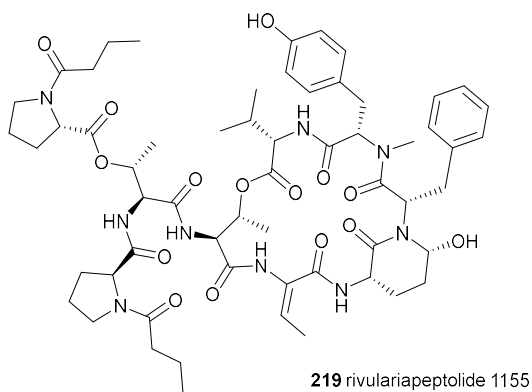
213 molassamide

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
214	molassamide B	M	<i>Rivularia</i> sp.	10.1038/s41467-022-32016-6
215	rivulariapeptolide 1185	M	<i>Rivularia</i> sp.	10.1038/s41467-022-32016-6
216	rivulariapeptolide 1155 B	M	<i>Rivularia</i> sp.	10.1038/s41467-022-32016-6
217	rivulariapeptolide 1121	M	<i>Rivularia</i> sp.	10.1038/s41467-022-32016-6
218	rivulariapeptolide 989	M	<i>Rivularia</i> sp.	10.1038/s41467-022-32016-6
219	rivulariapeptolide 1155	M	<i>Rivularia</i> sp.	10.1038/s41587-020-0740-8
220	jizanpeptin A	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.8b00117
221	jizanpeptin B	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.8b00117
222	jizanpeptin C	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.8b00117
223	jizanpeptin D	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.8b00117



215 rivulariapeptolide 1185	R ₁	N-Ba-Pro-	R ₂	-CH-CH ₂ -iPr	R ₃	Ph
216 rivulariapeptolide 1155B	R ₁	N-Ba-Pro-	R ₂	-C=CH-CH ₃	R ₃	Ph
217 rivulariapeptolide 1121	R ₁	N-Ba-Pro-	R ₂	-C=CH-CH ₃	R ₃	iPh
218 rivulariapeptolide 989	R ₁	H	R ₂	-C=CH-CH ₃	R ₃	Ph



221 jizanpeptin B R CH₃

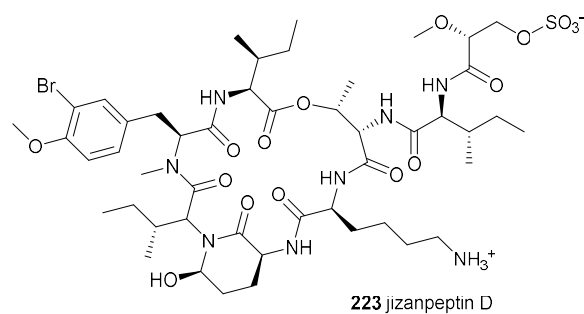
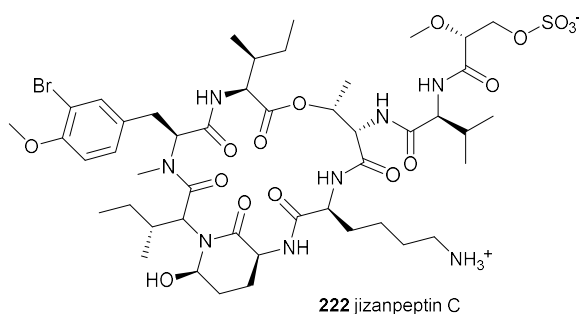
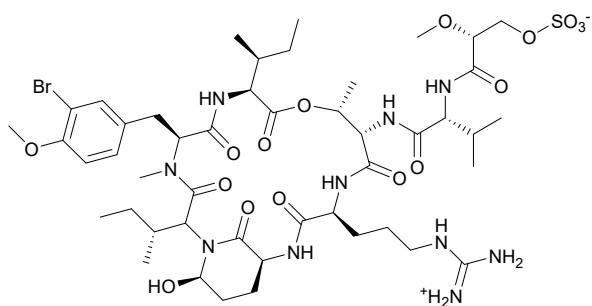
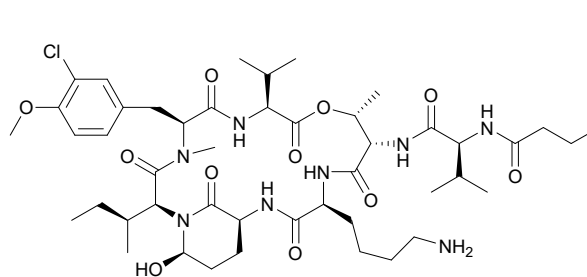


Table S1. (continued)

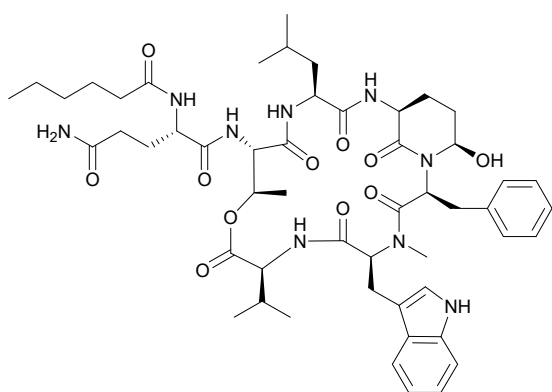
#	Compound	Habitat	Producing organism	DOI
224	jizanpeptin E	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.8b00117
225	kempopeptin C	M	<i>Lyngbya confervoides</i>	10.3390/md15090290
226	kyanamide	M	<i>Caldora penicillata</i>	10.1016/j.tet.2019.04.046
227	largamide D oxazolidine	M	<i>Lyngbya</i> cf. <i>confervoides</i>	10.3390/md8061803
228	microcystin-FA	F	<i>Microcystis</i> sp.	10.1016/j.phytol.2013.07.011
229	microcystin-WA	F	<i>Microcystis</i> sp.	10.1016/j.phytol.2013.07.011



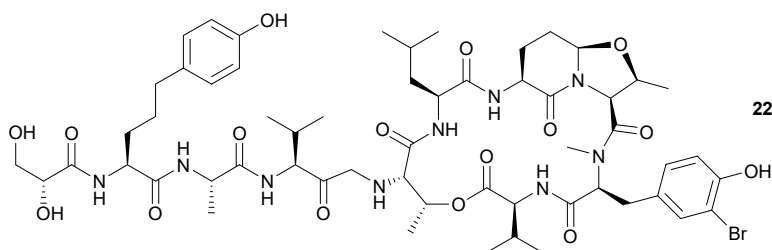
224 jizanpeptin E



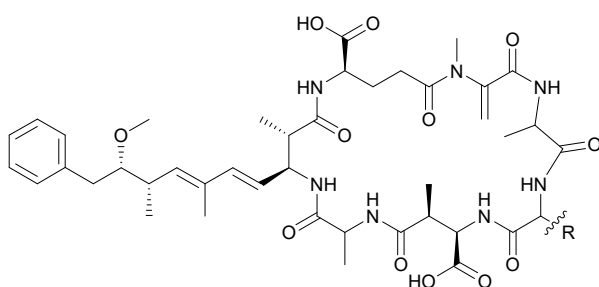
225 kempopeptin C



226 kyanamide



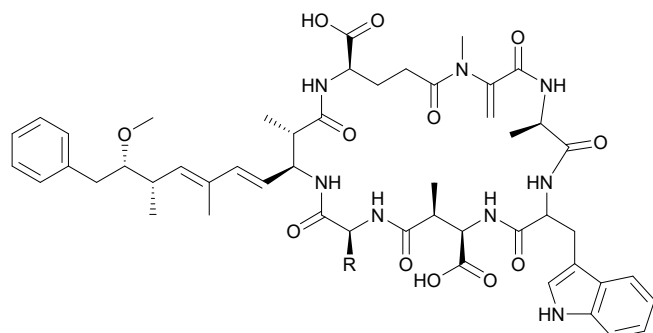
227 largamide D oxazolidine



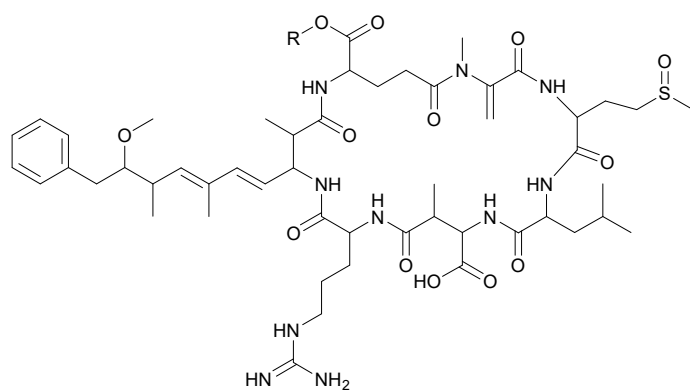
228 microcystin-FA R X
 229 microcystin-WA R Y

Table S1. (continued)

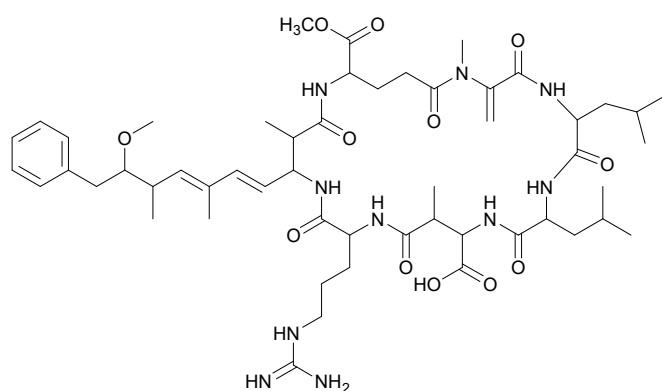
#	Compound	Habitat	Producing organism	DOI
230	microcystin MC-Waba	F	<i>Microcystis</i> sp.	10.3390/md11083025
231	microcystin MC-WL	F	<i>Microcystis</i> sp.	10.3390/md11083025
232	[M(O)1] microcystin-LR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098
233	[M(O)1, Glu(OCH3)6] microcystin-LR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098
234	[Leu1, Glu(OCH3)6] microcystin-LR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098



230 microcystin MC-Waba R CH₂CH₃
 231 microcystin MC-WL R CH₂CH(CH₃)₂



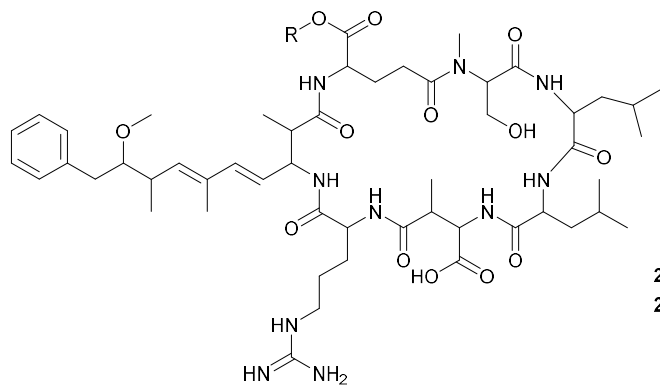
232 [M(O)1] microcystin-LR R H
 233 [M(O)1, Glu(OCH3)6] microcystin-LR R CH₃



234 [Leu1, Glu(OCH3)6] microcystin-LR

Table S1. (continued)

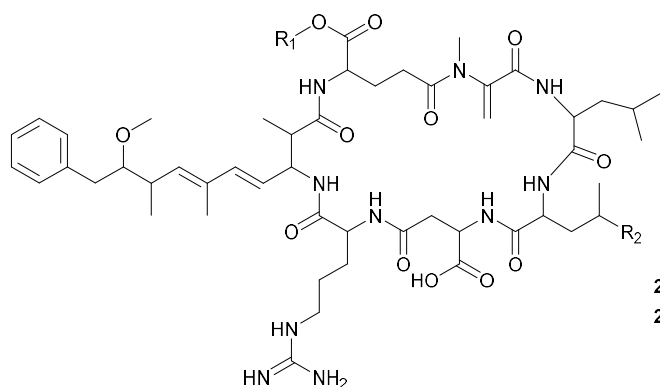
#	Compound	Habitat	Producing organism	DOI
235	[Leu1, Ser7] microcystin-LR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098
236	[Leu1, Glu(OCH3)6, Ser7] microcystin-LR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098
237	[Leu1, Asp3] microcystin-LR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098
238	[Leu1, Glu(OCH3)6] microcystin-HiLR	F	<i>Microcystis aeruginosa</i>	10.1002/rcm.7098
239	[D-Glu(OCH3)6, D-Asp3] microcystin-LAba	F	<i>Microcystis aeruginosa</i>	10.1016/j.envpol.2010.06.018



235 [Leu1, Ser7] microcystin-LR

R H

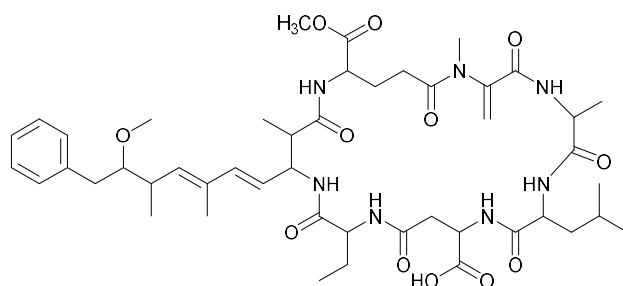
236 [Leu1, Glu(OCH3)6, Ser7] microcystin-LR

R CH₃

237 [Leu1, Asp3] microcystin-LR

R₁ H R₂ CH₃

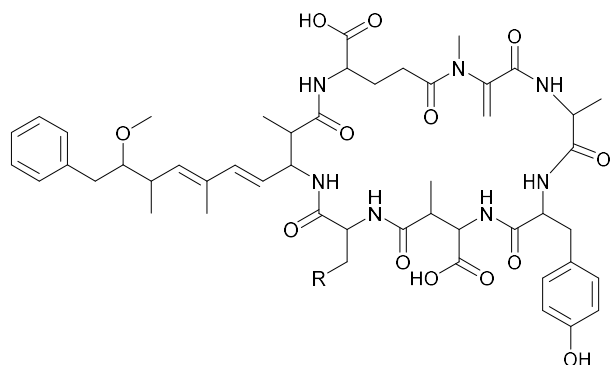
238 [Leu1, Glu(OCH3)6] microcystin-HiLR

R₁ CH₃ R₂ CH₂-CH₃

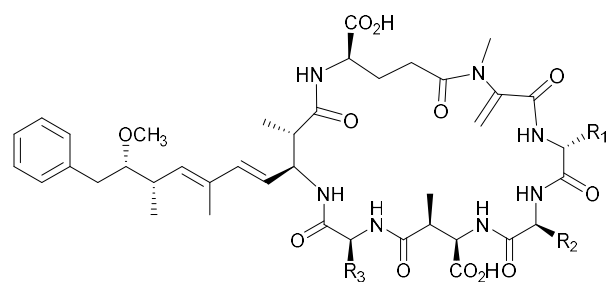
239 [D-Glu(OCH3)6, D-Asp3] microcystin-LAba

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
240	microcystin-YL	F	<i>Microcystis aeruginosa</i>	10.1016/j.envpol.2010.06.018
241	microcystin-YM	F	<i>Microcystis aeruginosa</i>	10.1016/j.envpol.2010.06.018
242	microcystin compound 1	F	assemblage	10.1021/acs.jnatprod.7b00986
243	microcystin compound 2	F	assemblage	10.1021/acs.jnatprod.7b00986
244	microcystin compound 3	F	assemblage	10.1021/acs.jnatprod.7b00986
245	microcystin compound 4	F	assemblage	10.1021/acs.jnatprod.7b00986



240 microcystin-YL R CH(CH₃)₂
 241 microcystin-YM R CH₂-S-CH₃



242 microcystin Compound 1 R₁ CH₃ R₂ A R₃ A
 243 microcystin Compound 2 R₁ CH₃ R₂ A R₃ B
 244 microcystin Compound 3 R₁ CH₃ R₂ D R₃ A
 245 microcystin Compound 4 R₁ C R₂ C R₃ E

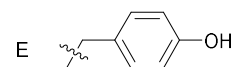
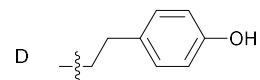
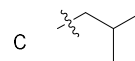
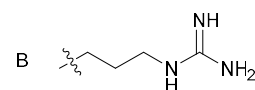
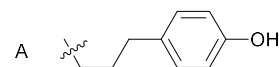
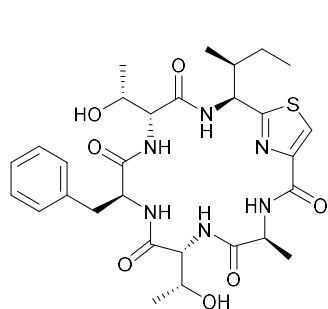
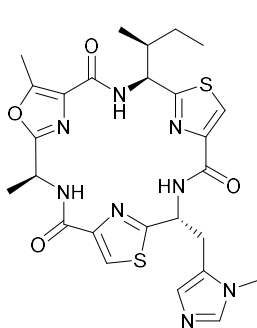


Table S1. (continued)

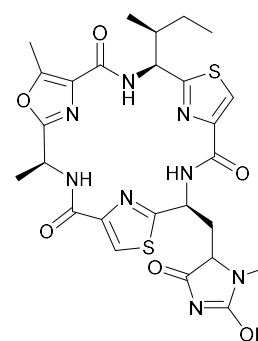
#	Compound	Habitat	Producing organism	DOI
246	microcyclamide GL616	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
247	microcyclamide GL582	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
248	microcyclamide GL614A	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
249	microcyclamide GL614B	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
250	microcyclamide GL546A	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
251	microcyclamide GL546B	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
252	microcyclamide GL628	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
253	microcyclamide GL614C	F	<i>Microcystis</i> sp.	10.1016/j.tet.2010.02.008
254	microcyclamide MZ602	F	<i>Microcystis</i> sp.	10.1016/j.tetlet.2010.10.051



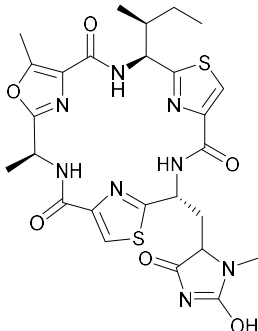
246 microcyclamide GL616



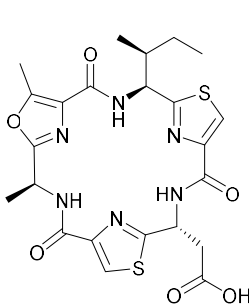
247 microcyclamide GL582



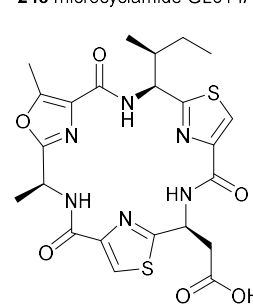
248 microcyclamide GL614A



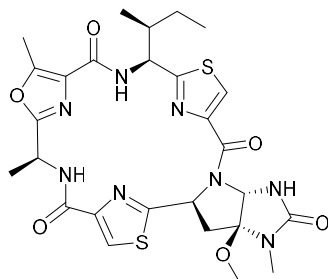
249 microcyclamide GL614B



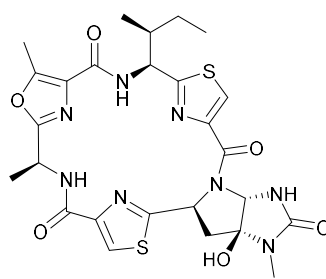
250 microcyclamide GL546A



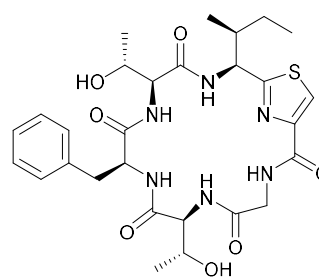
251 microcyclamide GL546B



252 microcyclamide GL628



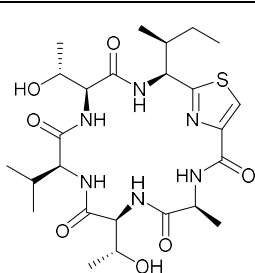
253 microcyclamide GL614C



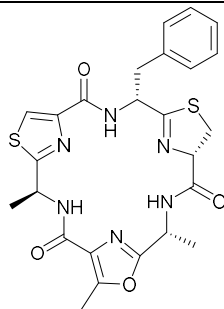
254 microcyclamide MZ602

Table S1. (continued)

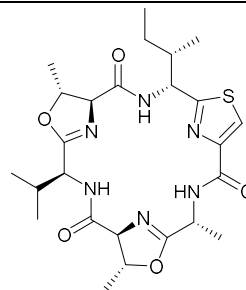
#	Compound	Habitat	Producing organism	DOI
255	microcyclamide MZ568	F	<i>Microcystis</i> sp.	10.1016/j.tetlet.2010.10.051
256	hapalocyclamide	F	<i>Hapalosiphon</i> sp.	10.1016/j.tetlet.2011.12.048
257	balgacyclamide A	F	<i>Microcystis aeruginosa</i>	10.1021/np400814w
258	balgacyclamide B	F	<i>Microcystis aeruginosa</i>	10.1021/np400814w
259	balgacyclamide C	F	<i>Microcystis aeruginosa</i>	10.1021/np400814w
260	tolypamide	F	<i>Tolypothrix</i> sp.	10.1002/anie.202015975
261	anacyclamide A10	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
262	anacyclamide B10	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09



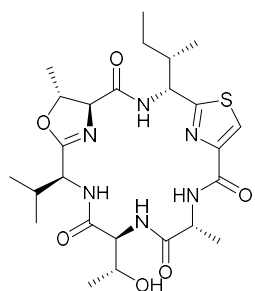
255 microcyclamide MZ568



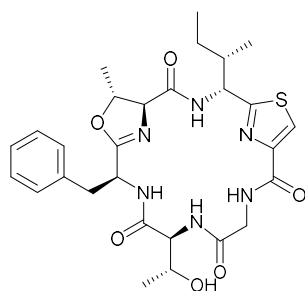
256 hapalocyclamide



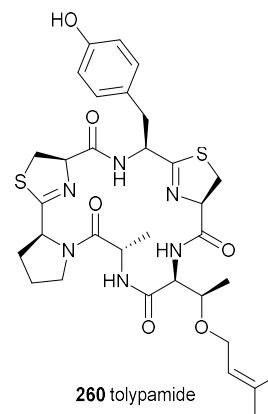
257 balgacyclamide A



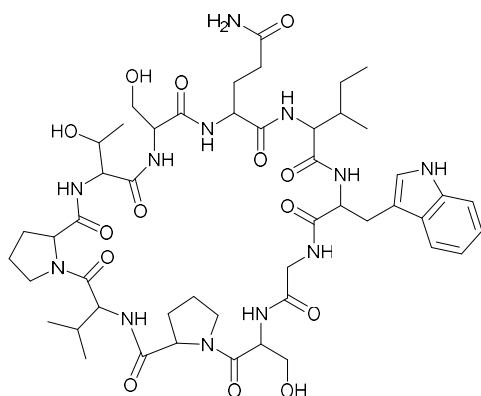
258 balgacyclamide B



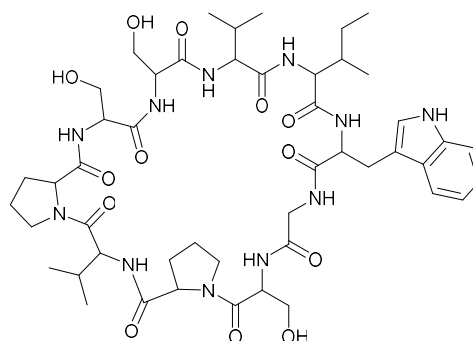
259 balgacyclamide C



260 tolypamide



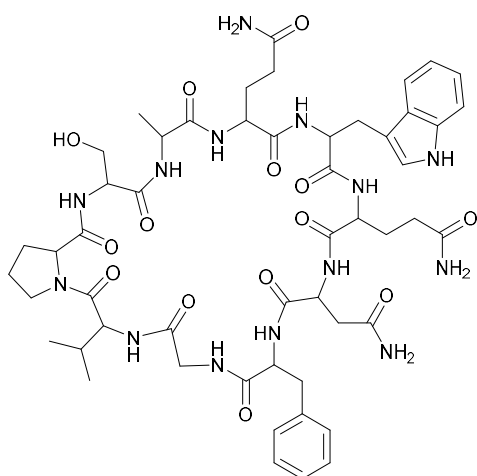
261 anacyclamide A10



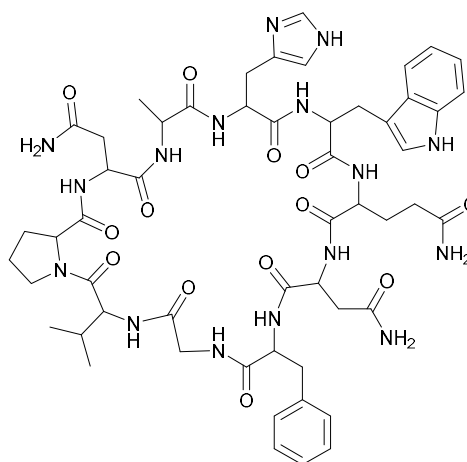
262 anacyclamide B10

Table S1. (continued)

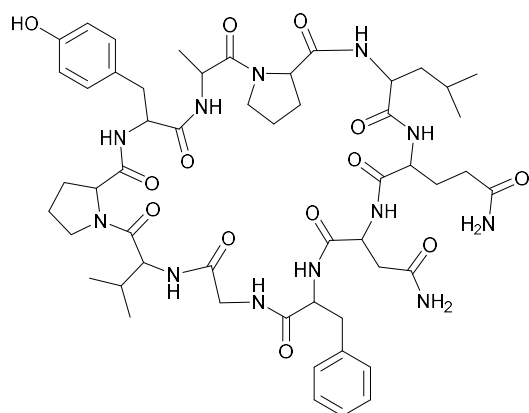
#	Compound	Habitat	Producing organism	DOI
263	anacyclamide C10	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
264	anacyclamide D10	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
265	anacyclamide E10	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
266	anacyclamide A11	M	<i>Anabaena</i> sp.	10.1128/AEM.01061-09



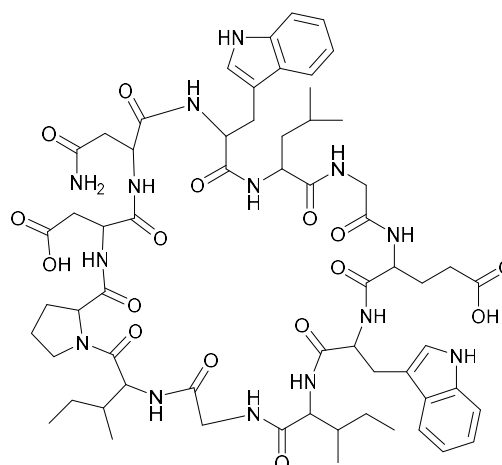
263 anacyclamide C10



264 anacyclamide D10



265 anacyclamide E10



266 anacyclamide A11

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
267	anacyclamide A15	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
268	anacyclamide B8	M	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
269	anacyclamide C8	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
270	anacyclamide B7	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09

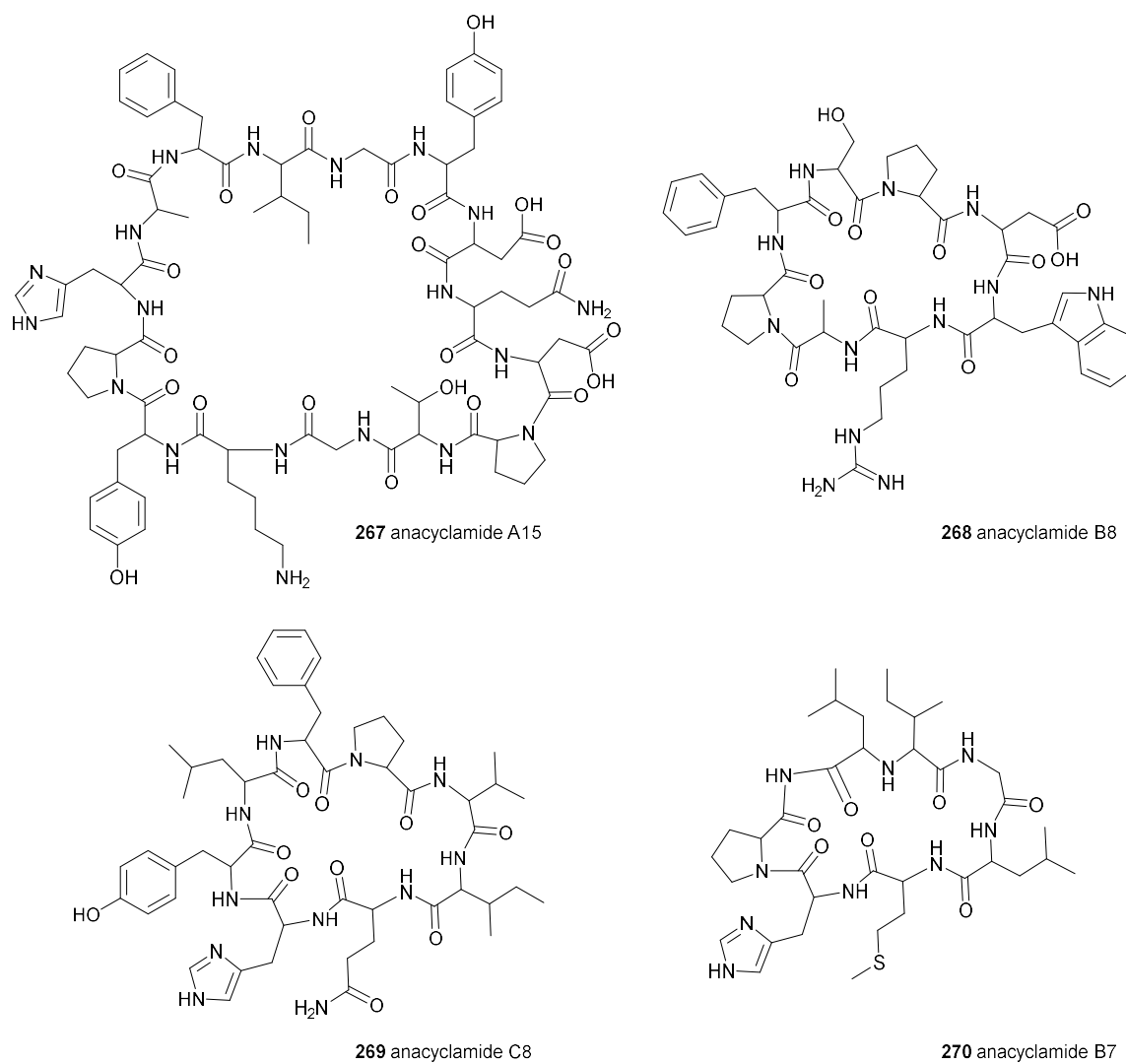
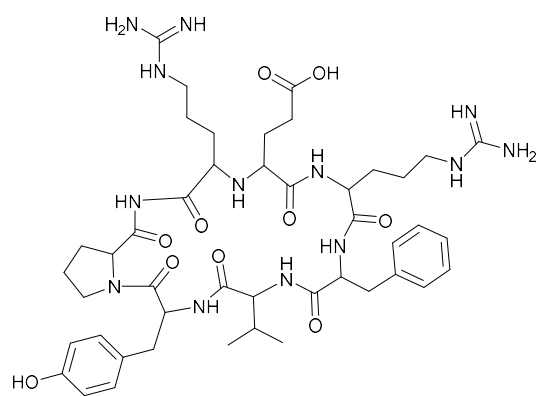
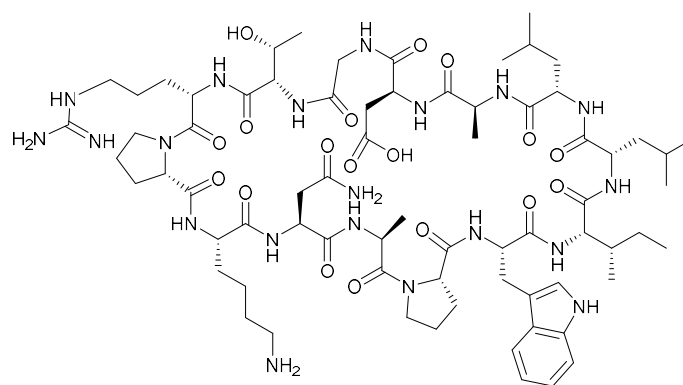


Table S1. (continued)

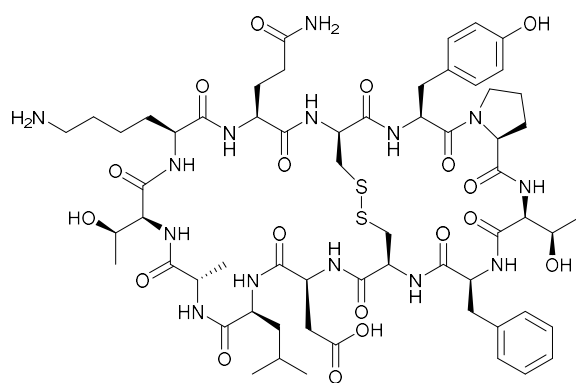
#	Compound	Habitat	Producing organism	DOI
271	anacyclamide A7	F	<i>Anabaena</i> sp.	10.1128/AEM.01061-09
272	piricyclamide 7005E2	F	<i>Microcystis aeruginosa</i>	10.1371/journal.pone.0043002
273	piricyclamide 7005E4	F	<i>Microcystis aeruginosa</i>	10.1371/journal.pone.0043002
274	prenylagaramide C	F	<i>Planktothrix agardhii</i>	10.1016/j.chembiol.2011.01.019



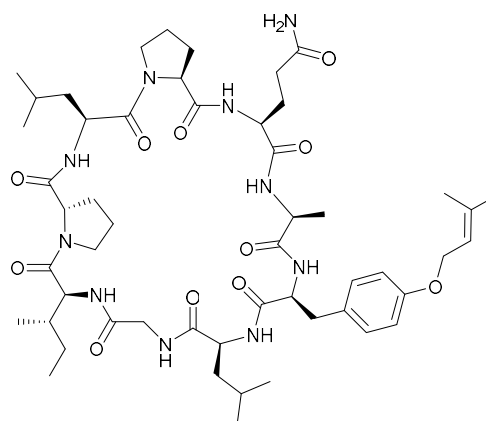
271 anacyclamide A7



272 piricyclamide 7005E2



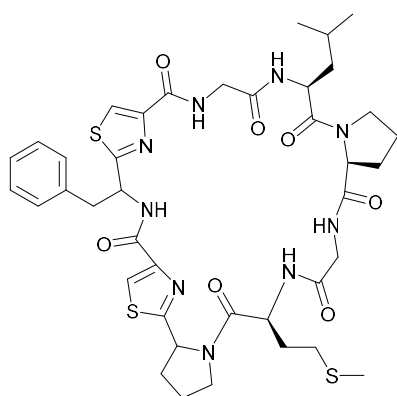
273 piricyclamide 7005E4



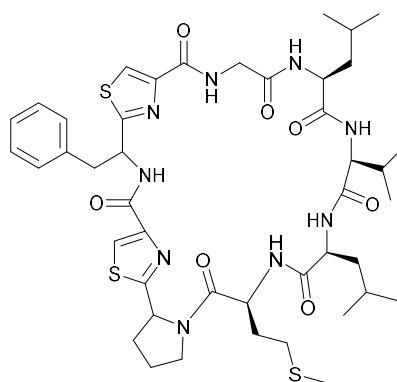
274 prenylagaramide C

Table S1. (continued)

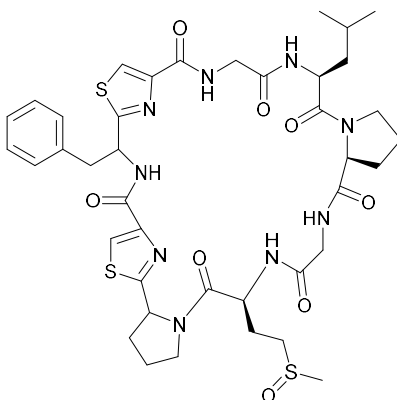
#	Compound	Habitat	Producing organism	DOI
275	arthrospiramide A	n.r.	<i>Arthrospira platensis</i>	10.1016/j.chembiol.2011.01.019
276	arthrospiramide B	n.r.	<i>Arthrospira platensis</i>	10.1016/j.chembiol.2011.01.019
277	arthrospiramide A sulfoxide	n.r.	<i>Arthrospira platensis</i>	10.1016/j.chembiol.2011.01.019
278	arthrospiramide B sulfoxide	n.r.	<i>Arthrospira platensis</i>	10.1016/j.chembiol.2011.01.019



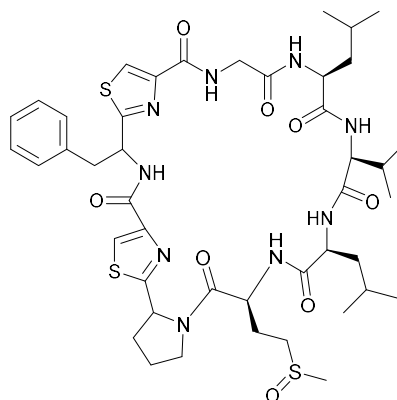
275 arthrospiramide A



276 arthrospiramide B



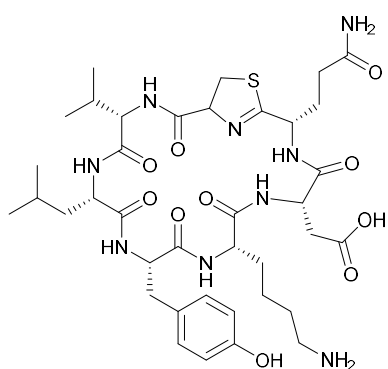
277 arthrospiramide A sulfoxide



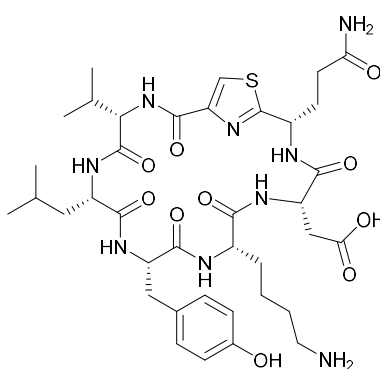
278 arthrospiramide B sulfoxide

Table S1. (continued)

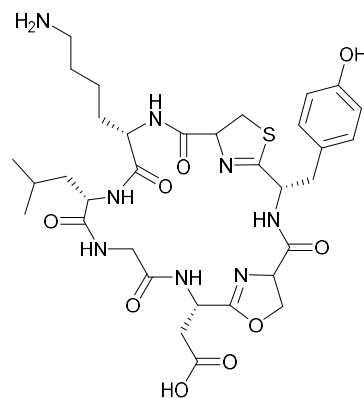
#	Compound	Habitat	Producing organism	DOI
279	cyanothecamide A	F	<i>Cyanotheca</i> sp.	10.1002/cbic.201200661
280	cyanothecamide B	F	<i>Cyanotheca</i> sp.	10.1002/cbic.201200661
281	cyanothecamide C	F	<i>Cyanotheca</i> sp.	10.1002/cbic.201200661
282	aestuaramide A	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
283	aestuaramide B	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
284	aestuaramide C	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
285	aestuaramide D	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
286	aestuaramide E	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
287	aestuaramide F	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
288	aestuaramide G	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
289	aestuaramide H	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
290	aestuaramide I	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
291	aestuaramide J	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
292	aestuaramide K	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c
293	aestuaramide L	M	<i>Lyngbya aestuarii</i>	10.1021/cb300614c



279 cyanothecamide A



280 cyanothecamide B



281 cyanothecamide C

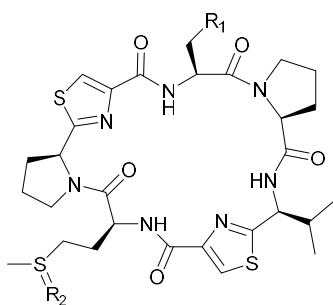
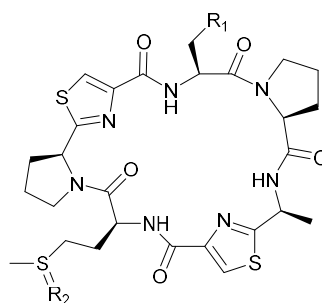
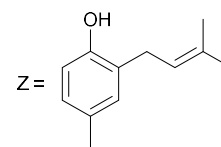
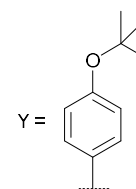
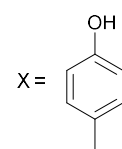
282 aestuaramide A R₁ = Y, R₂ = lone pair283 aestuaramide B R₁ = X, R₂ = lone pair284 aestuaramide C R₁ = Z, R₂ = lone pair285 aestuaramide D R₁ = Y, R₂ = O286 aestuaramide E R₁ = X, R₂ = O287 aestuaramide F R₁ = Z, R₂ = O288 aestuaramide G R₁ = Y, R₂ = lone pair289 aestuaramide H R₁ = X, R₂ = lone pair290 aestuaramide I R₁ = Z, R₂ = lone pair291 aestuaramide J R₁ = Y, R₂ = O292 aestuaramide K R₁ = X, R₂ = O293 aestuaramide L R₁ = Z, R₂ = O

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
294	autumnalamide	M	<i>Phormidium autumnale</i>	10.1021/np500374a
295	autumnalamide B	M	<i>Phormidium autumnale</i>	10.1039/D2CC01799G
296	trikoramide A	M	<i>Symploca hydroides</i>	10.1021/acs.jnatprod.9b00675
297	trikoramide B	M	<i>Symploca hydroides</i>	10.3390/md19100548

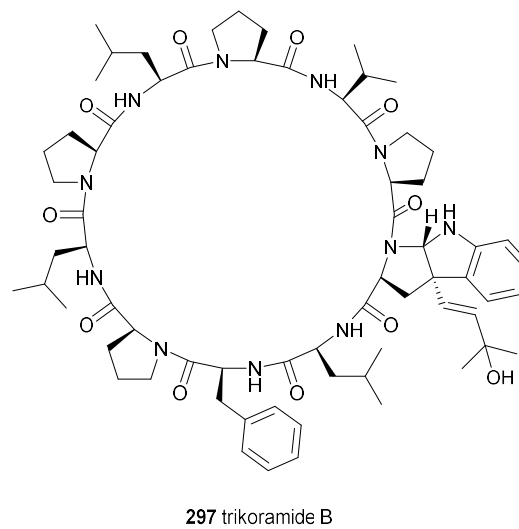
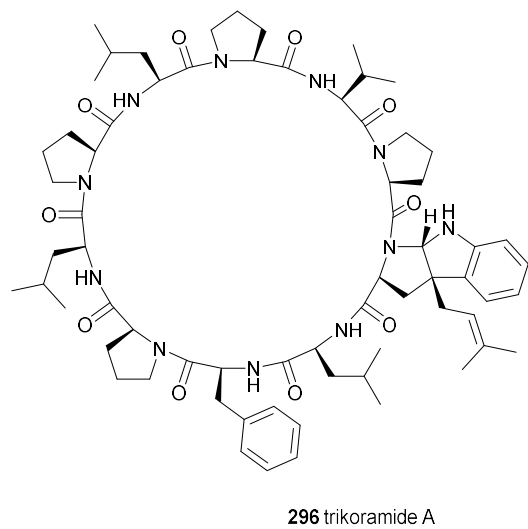
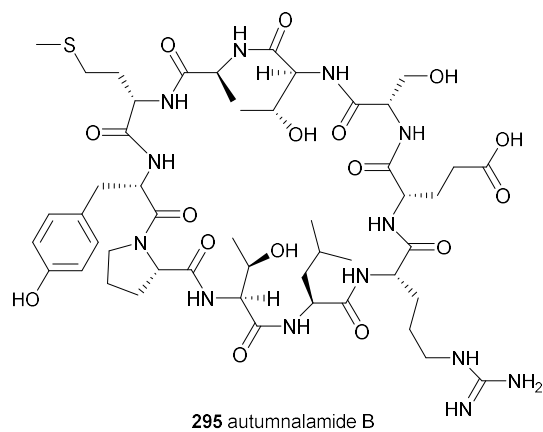
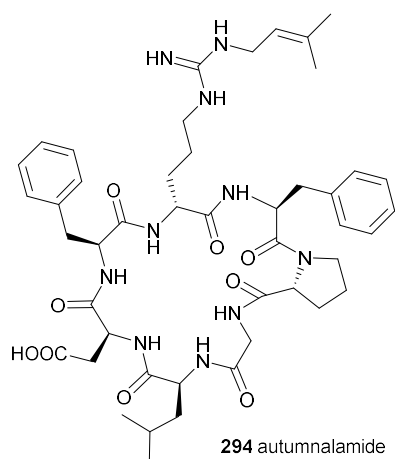
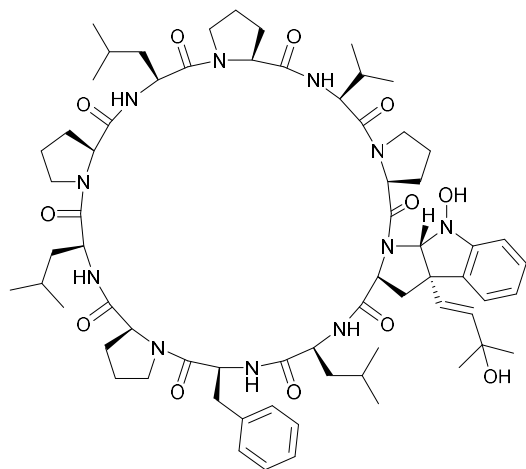
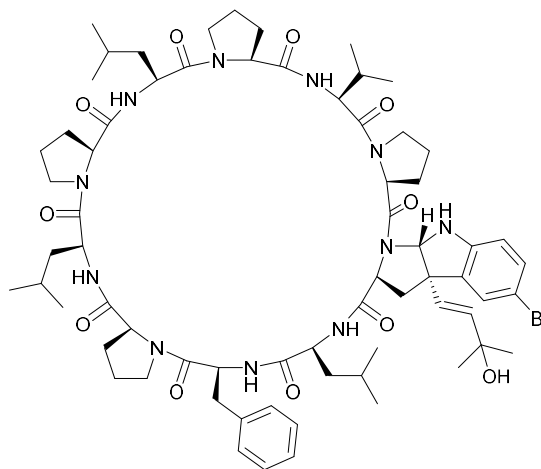


Table S1. (continued)

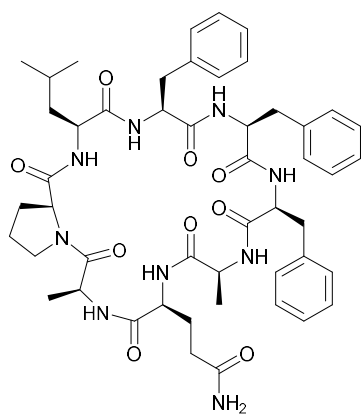
#	Compound	Habitat	Producing organism	DOI
298	trikoramide C	M	<i>Symploca hydroides</i>	10.3390/md19100548
299	trikoramide D	M	<i>Symploca hydroides</i>	10.3390/md19100548
300	microphycin KB921	F	<i>Microcystis</i> spp.	10.3390/md13042347
301	microseiramide	F	<i>Microseira</i> sp.	10.1016/j.phytol.2015.05.003
302	wewakazole B	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.6b00051



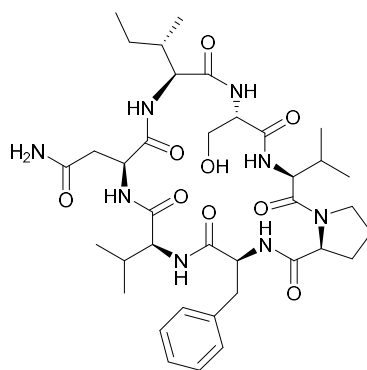
298 trikoramide C



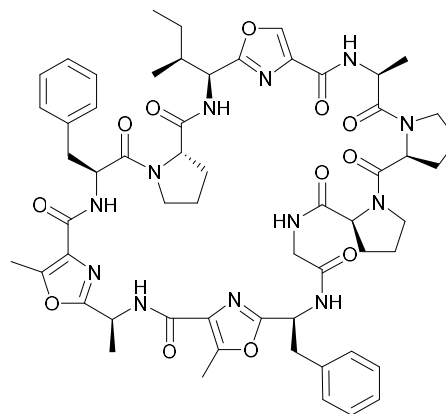
299 trikoramide D



300 microphycin KB921



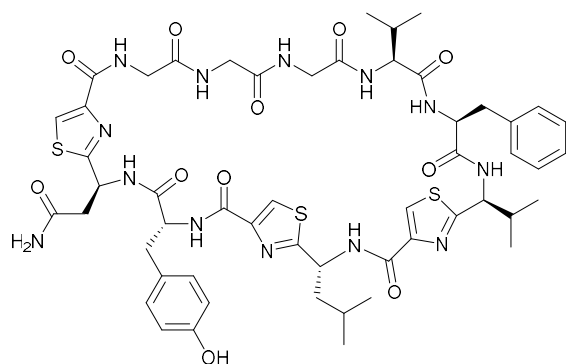
301 microseiramide



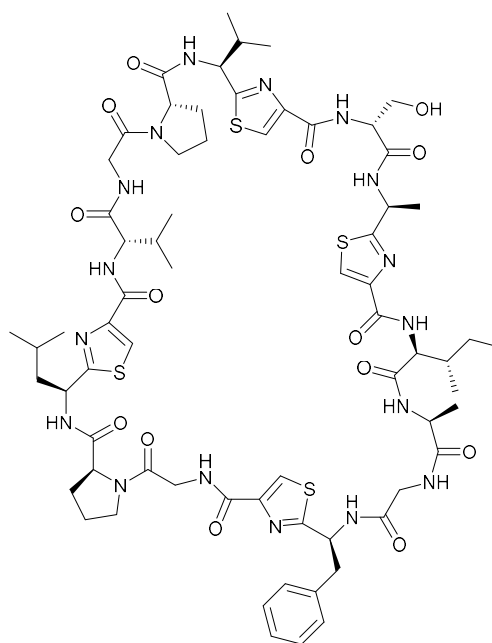
302 wewakazole B

Table S1. (continued)

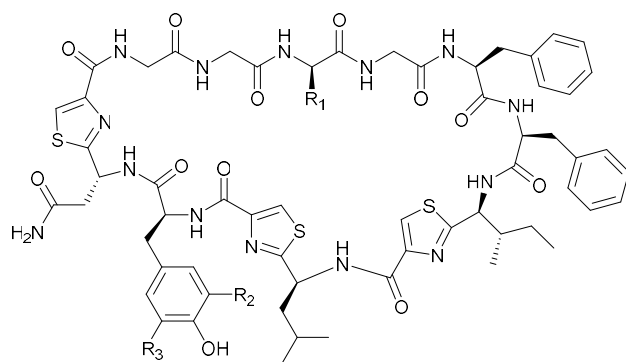
#	Compound	Habitat	Producing organism	DOI
303	aeruginazole A	F	<i>Microcystis</i> sp.	10.1021/ol1014015
304	aeruginazole DA1497	F	<i>Microcystis aeruginosa</i>	10.1016/j.tet.2011.12.045
305	aeruginazole DA1304	F	<i>Microcystis aeruginosa</i>	10.1016/j.tet.2011.12.045
306	aeruginazole DA1274	F	<i>Microcystis aeruginosa</i>	10.1016/j.tet.2011.12.045
307	sphaerocyclamide	F	<i>Sphaerospermopsis</i> sp.	10.1038/s41598-018-32618-5



303 aeruginazole A



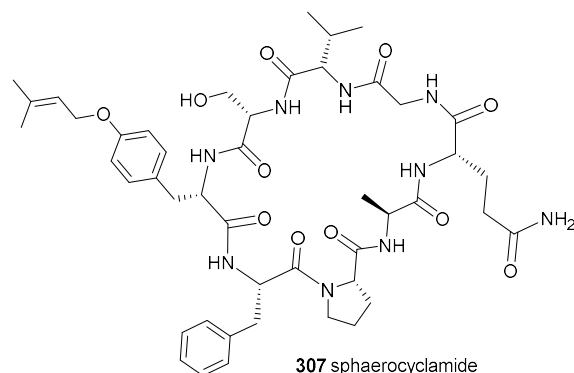
304 aeruginazole DA1497



305 aeruginazole DA1304

R₁ = CH₂OHR₂ = HR₃ = H

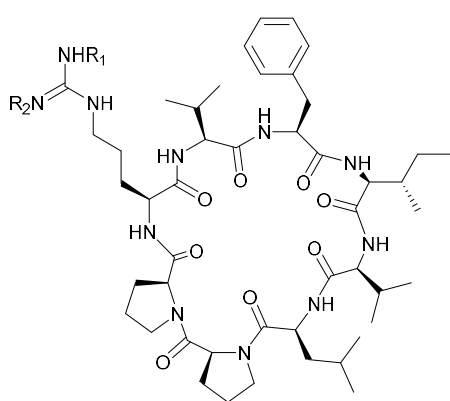
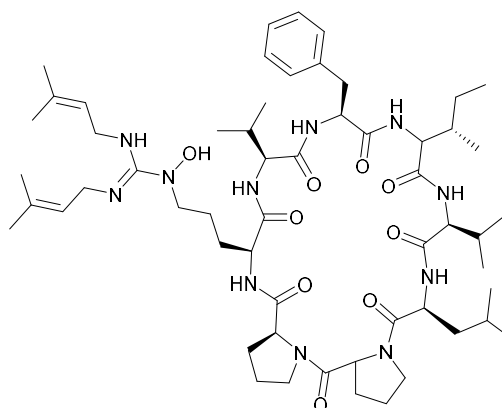
306 aeruginazole DA1274

R₁ = HR₂ = HR₃ = H

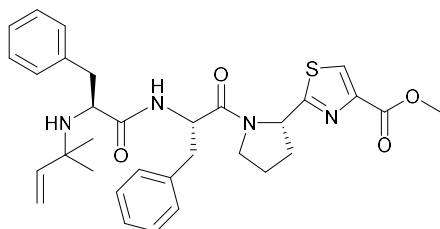
307 sphaerocyclamide

Table S1. (continued)

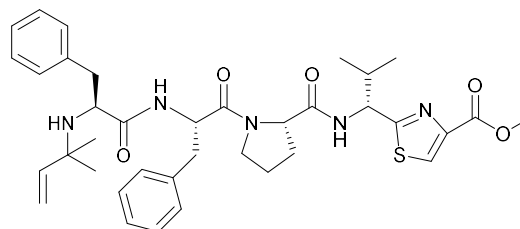
#	Compound	Habitat	Producing organism	DOI
308	argicyclamide A	F	<i>Microcystis aeruginosa</i>	10.1021/jacs.1c05732
309	argicyclamide B	F	<i>Microcystis aeruginosa</i>	10.1021/jacs.1c05732
310	argicyclamide C	F	<i>Microcystis aeruginosa</i>	10.1021/jacs.1c05732
311	argicyclamide D	F	<i>Microcystis aeruginosa</i>	10.1111/pre.12529
312	aeruginosamide B	n.r.	<i>Microcystis aeruginosa</i>	10.1016/j.chembiol.2013.06.015
313	aeruginosamide C	n.r.	<i>Microcystis aeruginosa</i>	10.1016/j.chembiol.2013.06.015
314*	viridisamide A	n.r.	<i>Oscillatoria nigro-viridis</i>	10.1016/j.chembiol.2013.06.015
315	aeruginosamide AEG671	B	<i>Limnoraphis</i> sp.	10.3390/md18090446

308 argicyclamide A R₁= dimethylallyl R₂= dimethylallyl309 argicyclamide B R₁= dimethylallyl R₂= H310 argicyclamide C R₁= H R₂= H

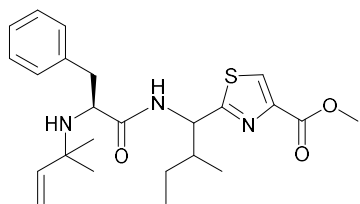
311 argicyclamide D



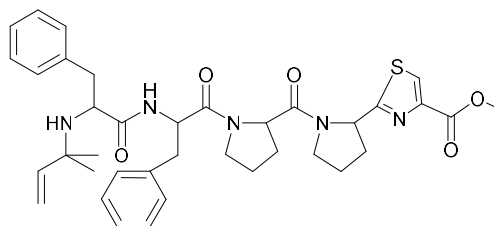
312 aeruginosamide B



313 aeruginosamide C



314* viridisamide A

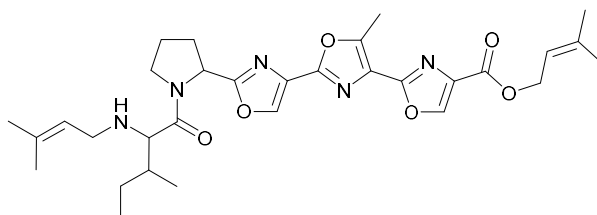


315 aeruginosamide AEG671

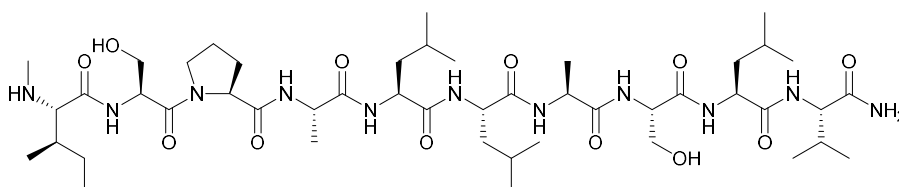
Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
316*	muscoride B	F	<i>Nostoc</i> sp.	10.1021/acscchembio.9b00620
317	scytodecamide	F	<i>Scytonema</i> sp.	10.1002/cbic.201900511
318	microviridin LH1667	F	<i>Microcystis</i> sp.	10.1016/j.tet.2014.07.057
319	microviridin 1777	F	<i>Microcystis</i> spp.	10.1021/acs.jnatprod.9b00986

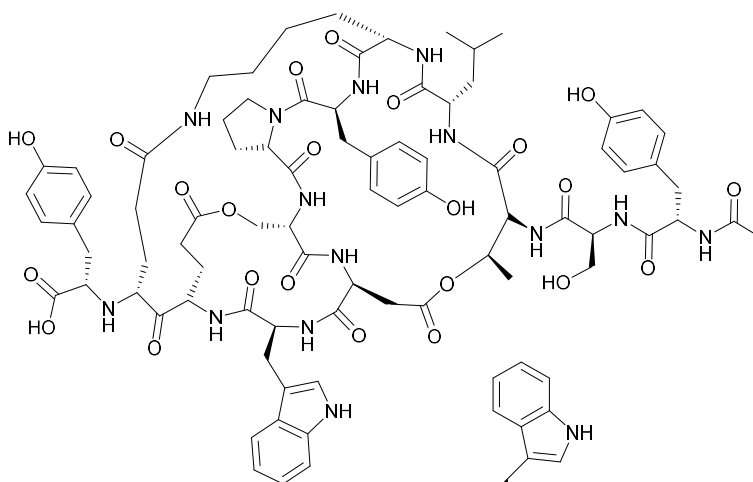
316* muscoride B



317 scytodecamide



318 microviridin LH1667



319 microviridin 1777

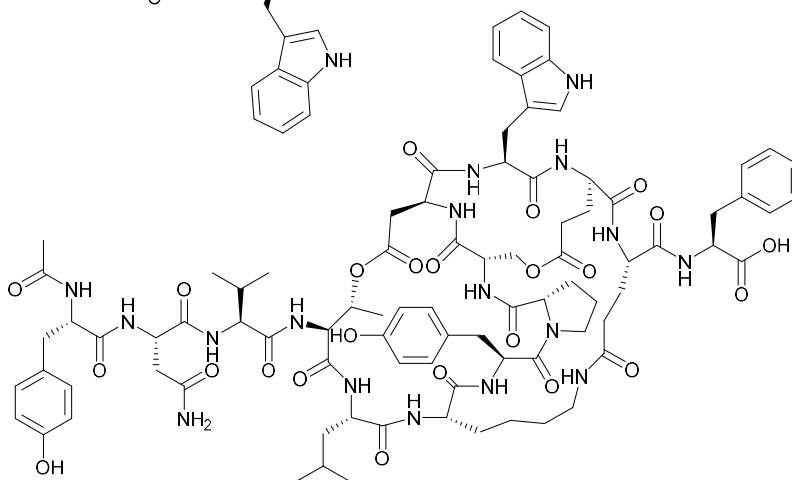


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
320	microviridin N9	F	<i>Nostoc punctiforme</i>	10.1021/acschembio.9b00240
321	microviridin N8	F	<i>Nostoc punctiforme</i>	10.1021/acschembio.9b00240
322	microviridin N7	F	<i>Nostoc punctiforme</i>	10.1021/acschembio.9b00240

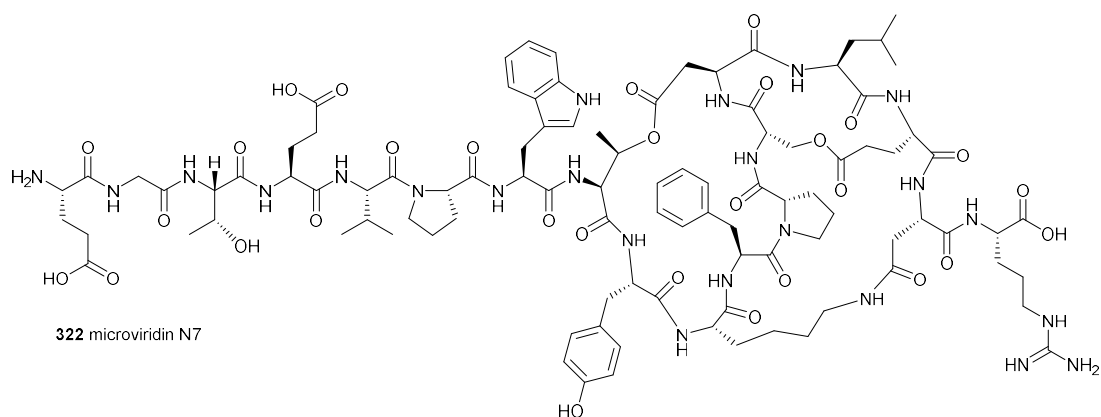
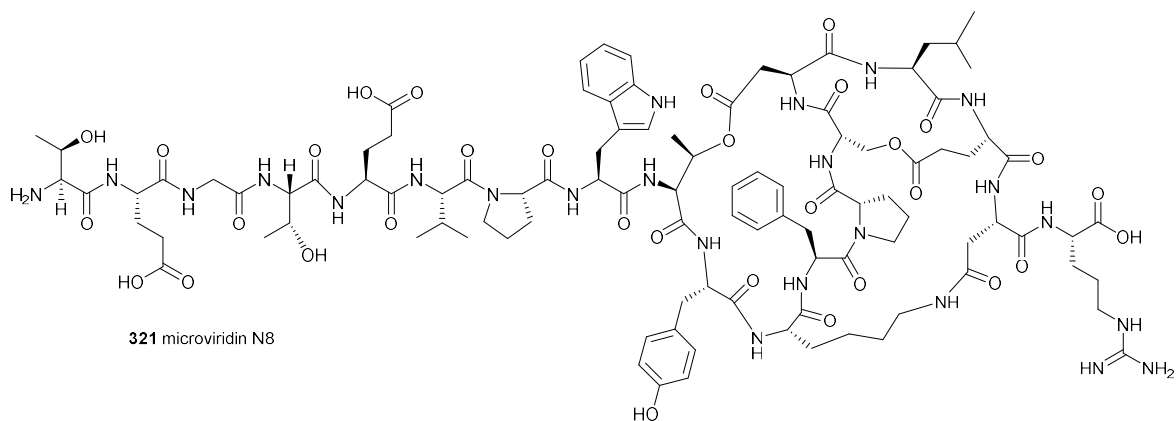
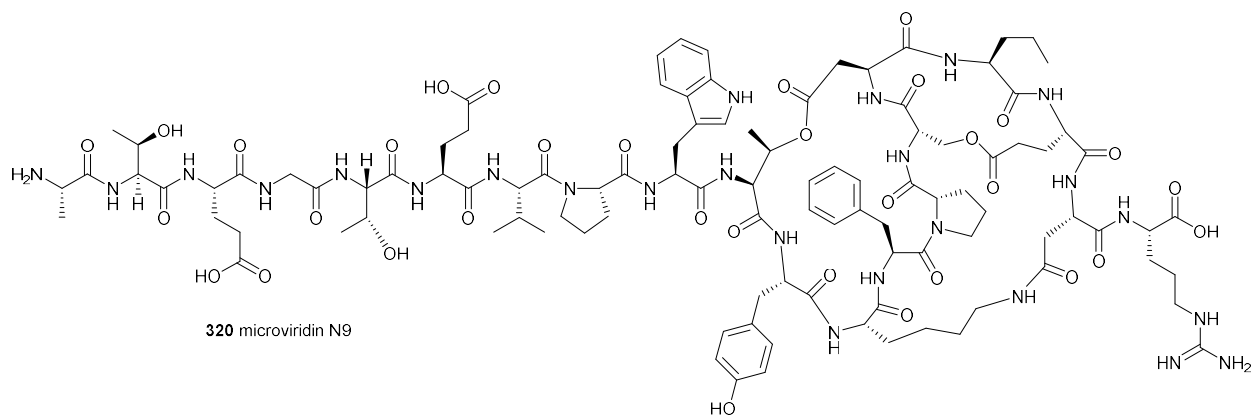


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
323	microviridin N6	F	<i>Nostoc punctiforme</i>	10.1021/acschembio.9b00240
324	microviridin N5	F	<i>Nostoc punctiforme</i>	10.1021/acschembio.9b00240
325	microviridin N4	F	<i>Nostoc punctiforme</i>	10.1021/acschembio.9b00240

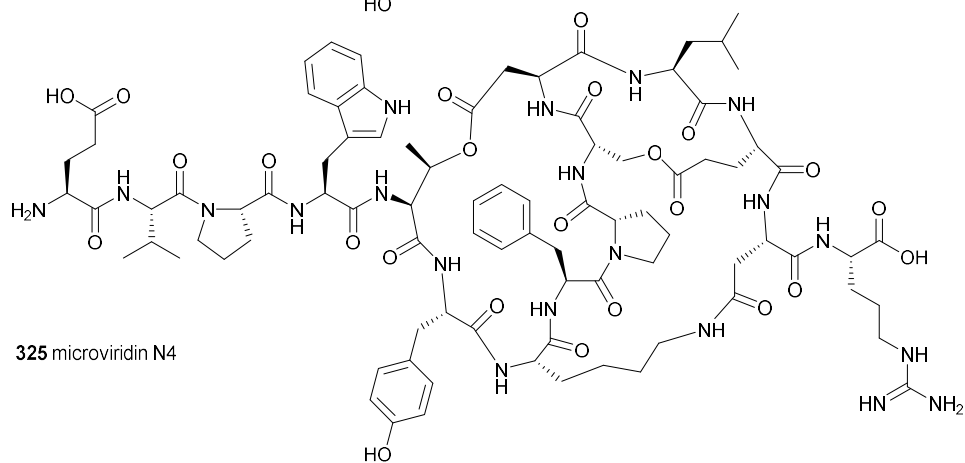
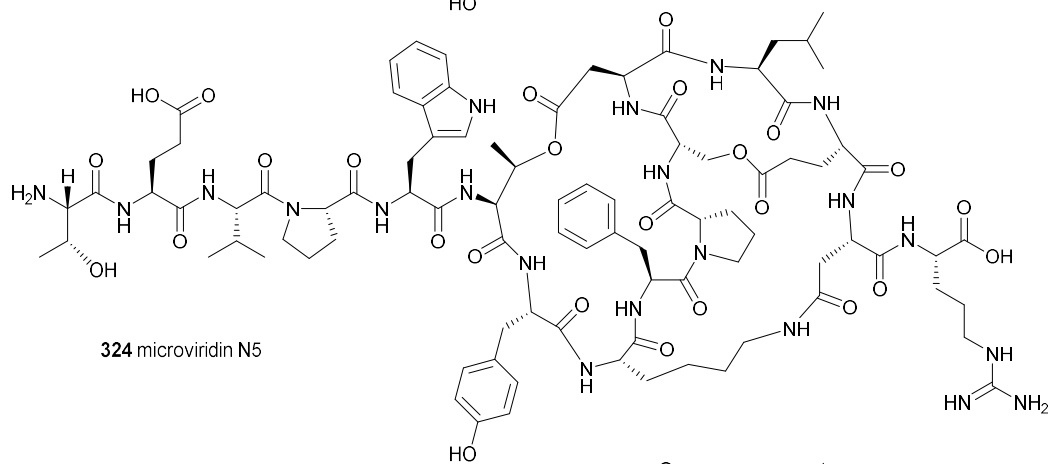
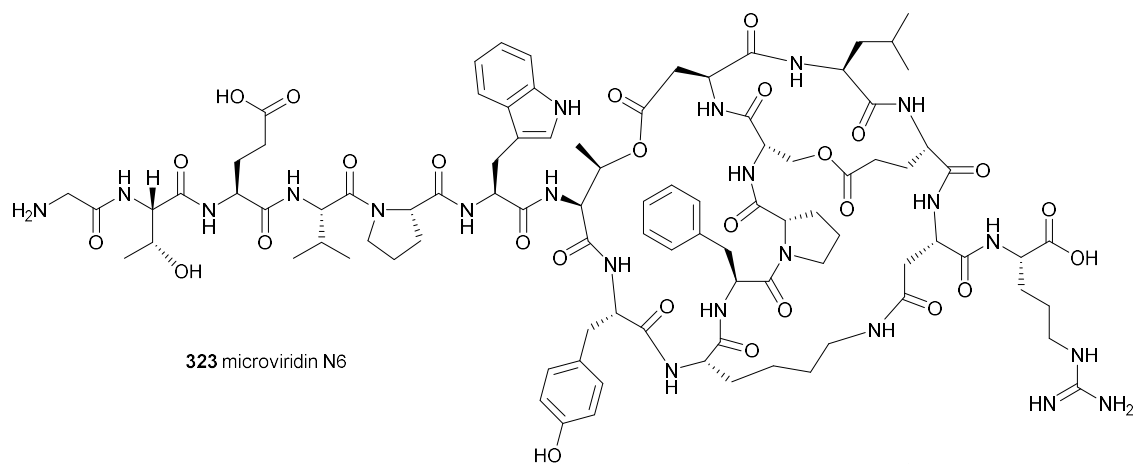
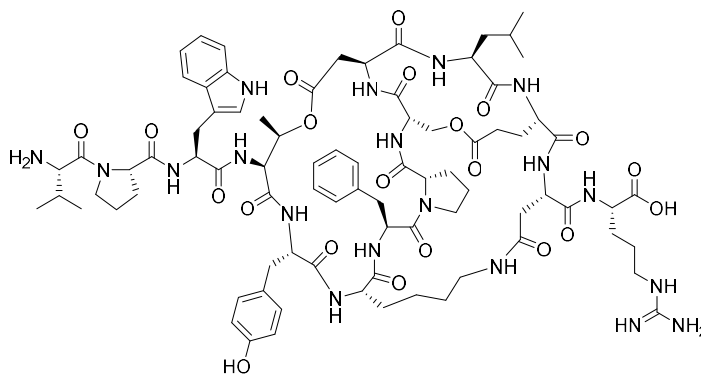


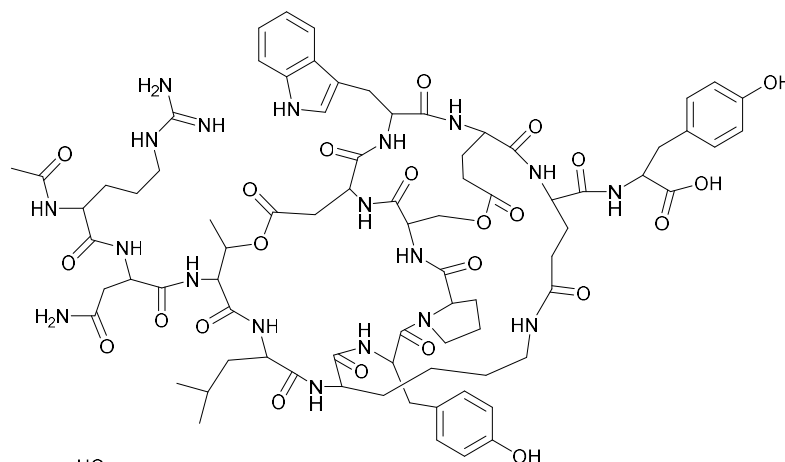
Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
326	microviridin N3	F	<i>Nostoc punctiforme</i>	10.1021/acscchembio.9b00240
327	microviridin 1688	F	<i>Nostoc</i> sp.	10.1128/msphere.00562-21
328	microviridin 1739	F	<i>Nostoc</i> sp.	10.1128/msphere.00562-21

326 microviridin N3



327 microviridin-1688



328 microviridin-1739

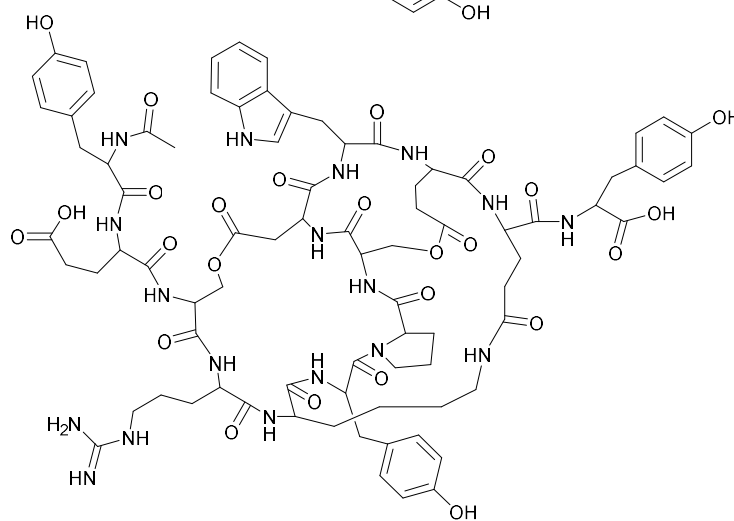


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
329	microviridin 1748	F	<i>Nostoc</i> sp.	10.1128/msphere.00562-21
330	samoamide A	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.6b00907
331	croissamide	M	<i>Symploca</i> sp.	10.1016/j.tetlet.2018.09.016
332	motobamide	M	<i>Leptolyngbya</i> sp.	10.1021/acs.jnatprod.1c00234
333	lingaoamide	F	<i>Oscillatoria</i> sp.	10.1016/j.tetlet.2021.153214

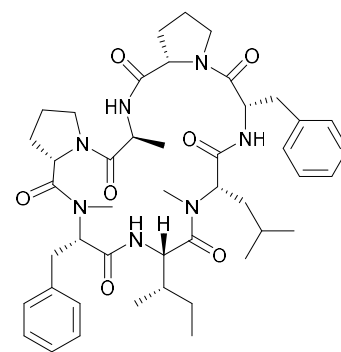
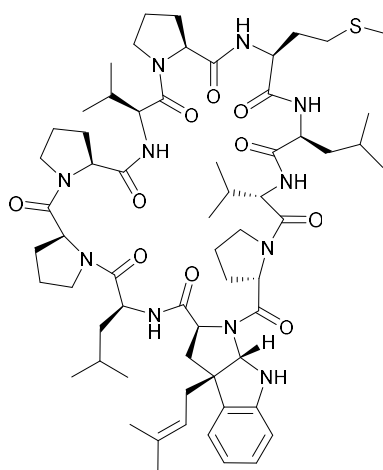
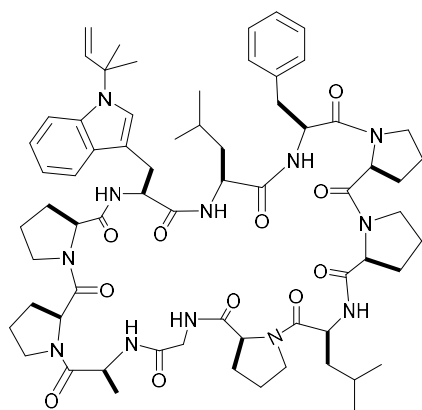
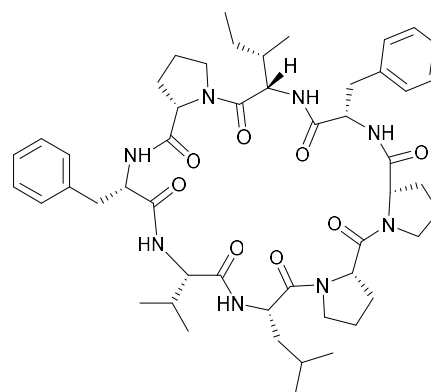
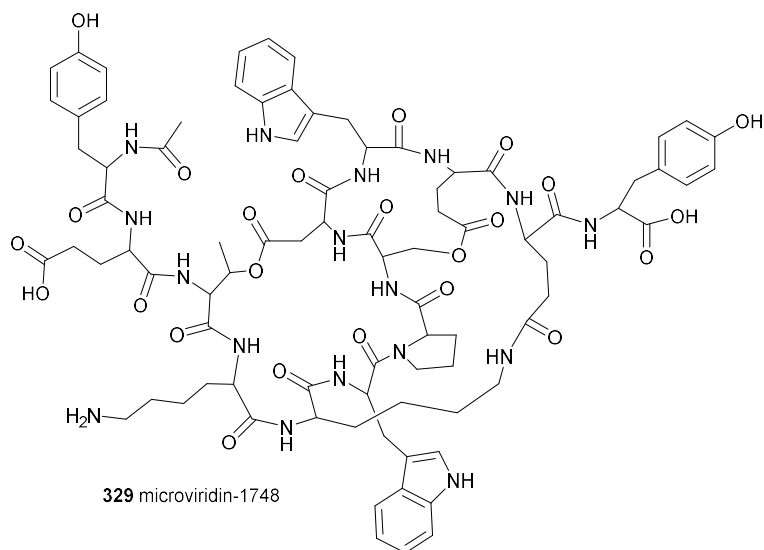


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
334	kamptornamide	F	<i>Kamptonema</i> sp.	10.1073/pnas.2113120119
335	pitipeptolide C	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2011.07.014
336	pitipeptolide D	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2011.07.014
337	pitipeptolide E	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2011.07.014
338	pitipeptolide F	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2011.07.014
339	benderamide A	M	<i>Lyngbya</i> sp.	10.3390/md16110409
340	viequeamide A	M	<i>Rivularia</i> sp.	10.1021/np300321b

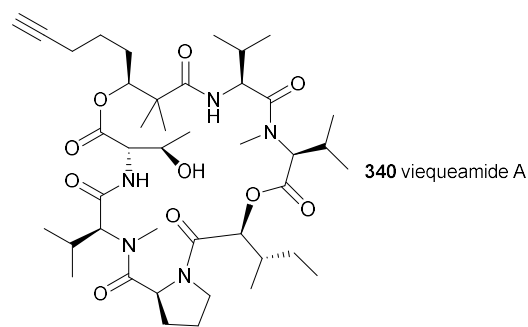
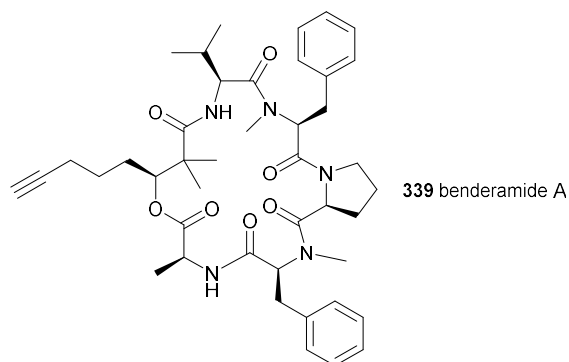
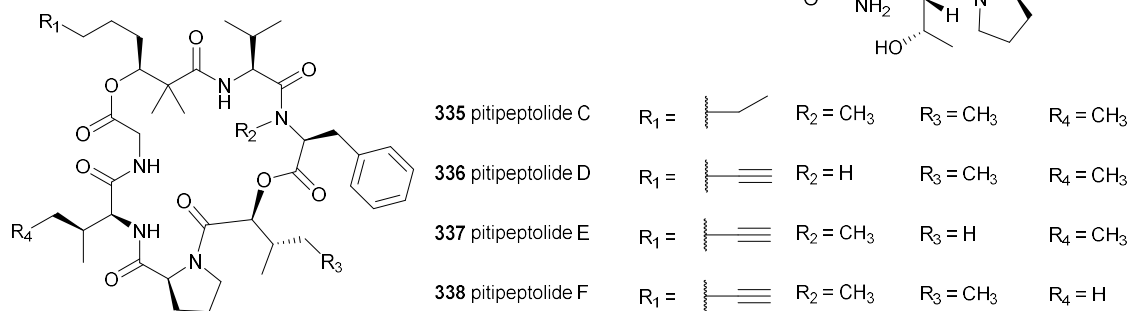
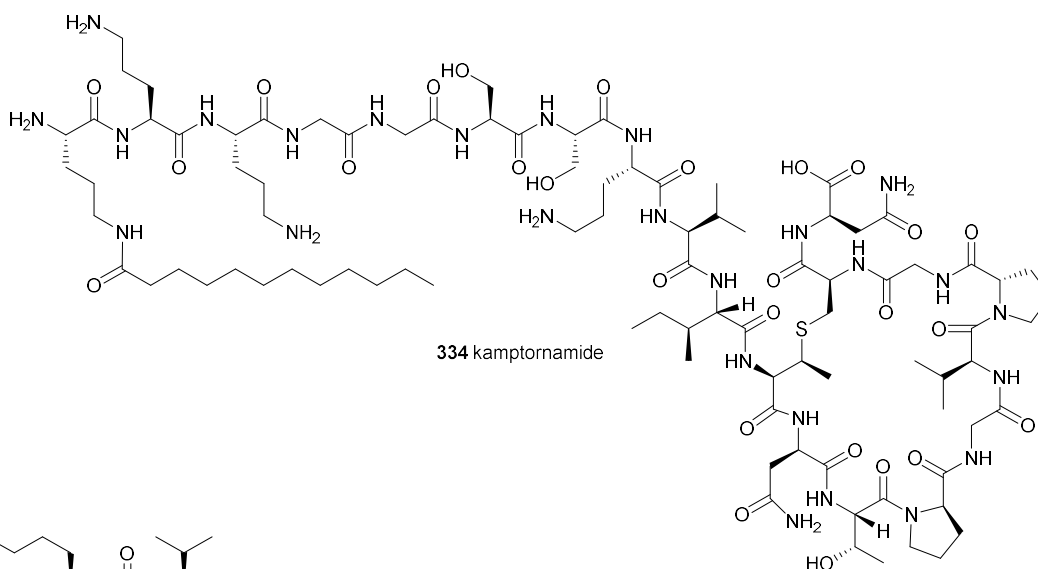
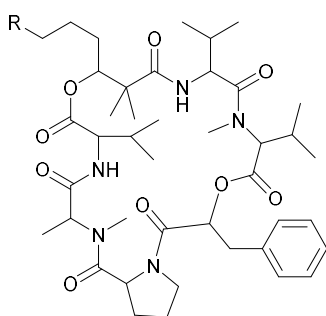
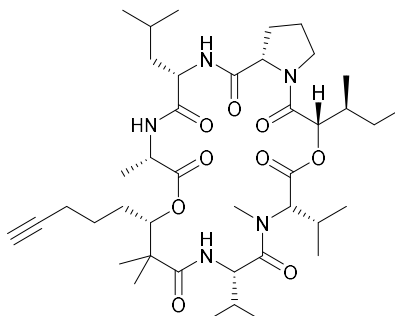


Table S1. (continued)

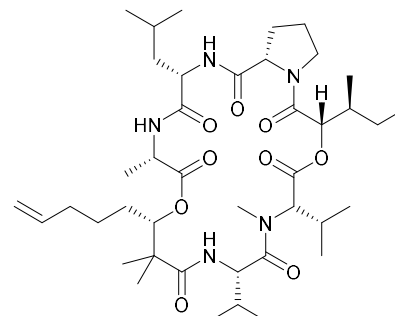
#	Compound	Habitat	Producing organism	DOI
341	viequeamide B	M	<i>Rivularia</i> sp.	10.1021/np300321b
342	viequeamide C	M	<i>Rivularia</i> sp.	10.1021/np300321b
343	viequeamide D	M	<i>Rivularia</i> sp.	10.1021/np300321b
344	kohamamide A	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00256
345	kohamamide B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00256
346	kohamamide C	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00256
347	hantupeptin B	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2009.10.006
348	hantupeptin C	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2009.10.006
349	tiahuramide A	M	<i>Lyngbya majuscula</i>	10.1021/acs.jnatprod.7b00751
350	tiahuramide B	M	<i>Lyngbya majuscula</i>	10.1021/acs.jnatprod.7b00751
351	tiahuramide C	M	<i>Lyngbya majuscula</i>	10.1021/acs.jnatprod.7b00751



341 viequeamide B R =



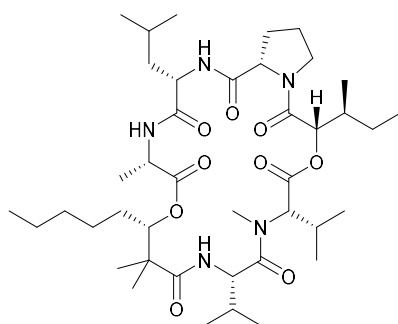
345 kohamamide A



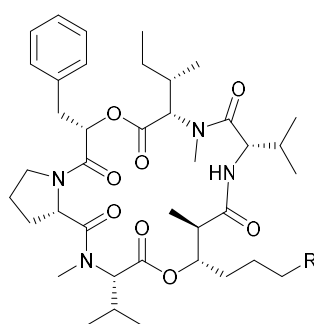
346 kohamamide B

342 viequeamide C R =

343 viequeamide D R =

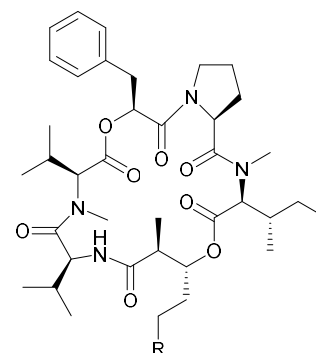


347 kohamamide C



348 hantupeptin B R =

349 hantupeptin C R =



349 tiahuramide A R =

350 tiahuramide B R =

351 tiahuramide C R =

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
352	veraguamide A	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
353	veraguamide B	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
354	veraguamide C	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
355	veraguamide D	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
356	veraguamide E	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
357	veraguamide F	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
358	veraguamide G	M	<i>Symploca</i> cf. <i>hydnoides</i>	10.1021/np200076t
359	veraguamide H	M	cf. <i>Oscillatoria margaritifera</i>	10.1021/np200077f
360	veraguamide I	M	cf. <i>Oscillatoria margaritifera</i>	10.1021/np200077f
361	veraguamide J	M	cf. <i>Oscillatoria margaritifera</i>	10.1021/np200077f
362	odobromoamide	M	<i>Okeania</i> sp.	10.1246/bcsj.20160417
363	trikoveramide A	M	<i>Symploca</i> <i>hydnoides</i>	10.1016/j.phytochem.2021.112879
364	trikoveramide B	M	<i>Symploca</i> <i>hydnoides</i>	10.1016/j.phytochem.2021.112879
365	trikoveramide C	M	<i>Symploca</i> <i>hydnoides</i>	10.1016/j.phytochem.2021.112879

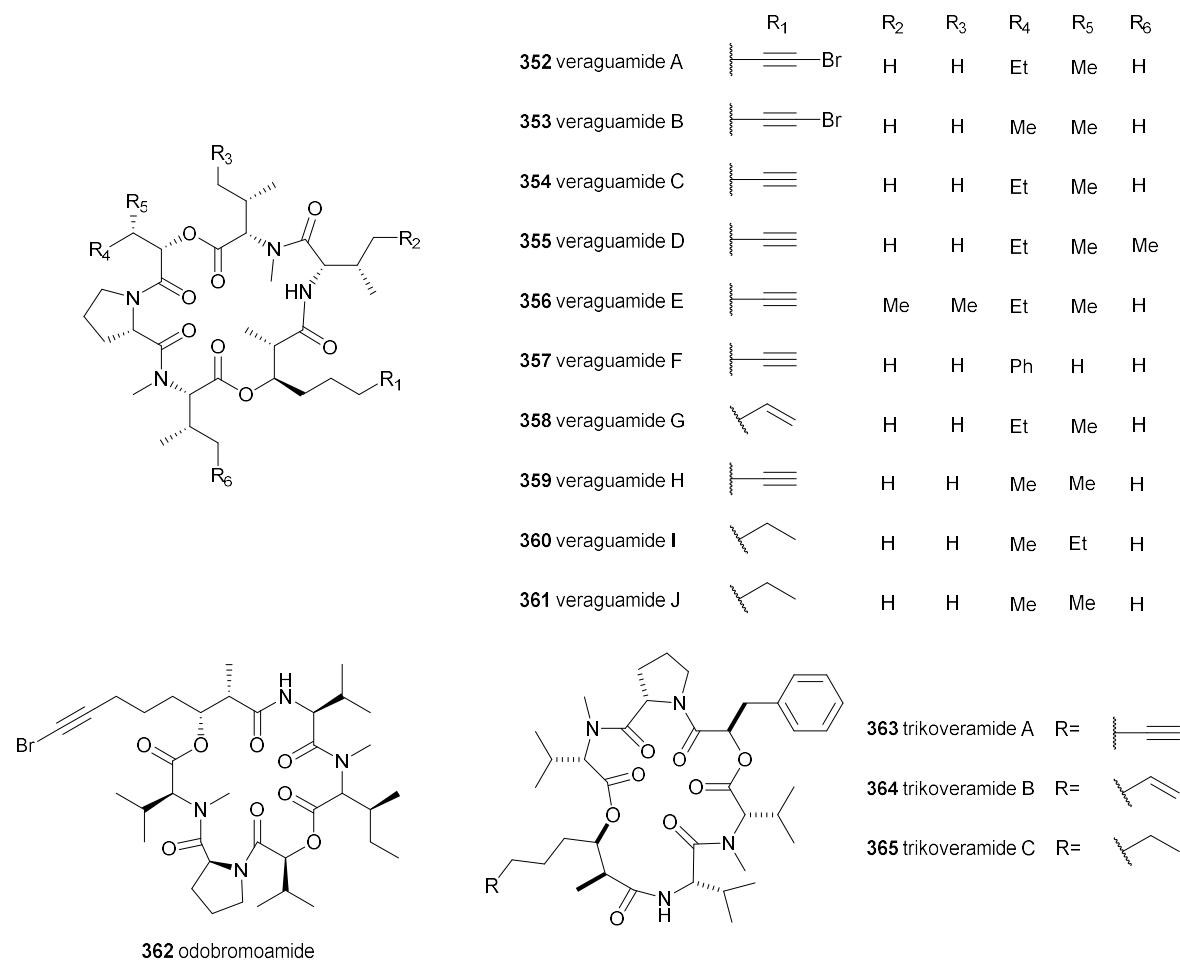


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
366	veraguamide K	M	cf. <i>Oscillatoria margaritifera</i>	10.1021/np200077f
367	veraguamide L	M	cf. <i>Oscillatoria margaritifera</i>	10.1021/np200077f
368	cocosamide A	M	<i>Lyngbya majuscula</i>	10.1021/np1008015
369	cocosamide B	M	<i>Lyngbya majuscula</i>	10.1021/np1008015
370	floridamide	M	<i>Moorea producens</i>	10.1080/14786419.2016.1207074
371	pemukainalide A	M	<i>Symploca hydroides</i>	10.1021/acs.jnatprod.1c00996
372	pemukainalide B	M	<i>Symploca hydroides</i>	10.1021/acs.jnatprod.1c00996
373	yuvalamide A	M	<i>Lyngbya</i>	10.7554/eLife.24214
374	yuvalamide B	M	<i>Lyngbya</i>	10.7554/eLife.24214

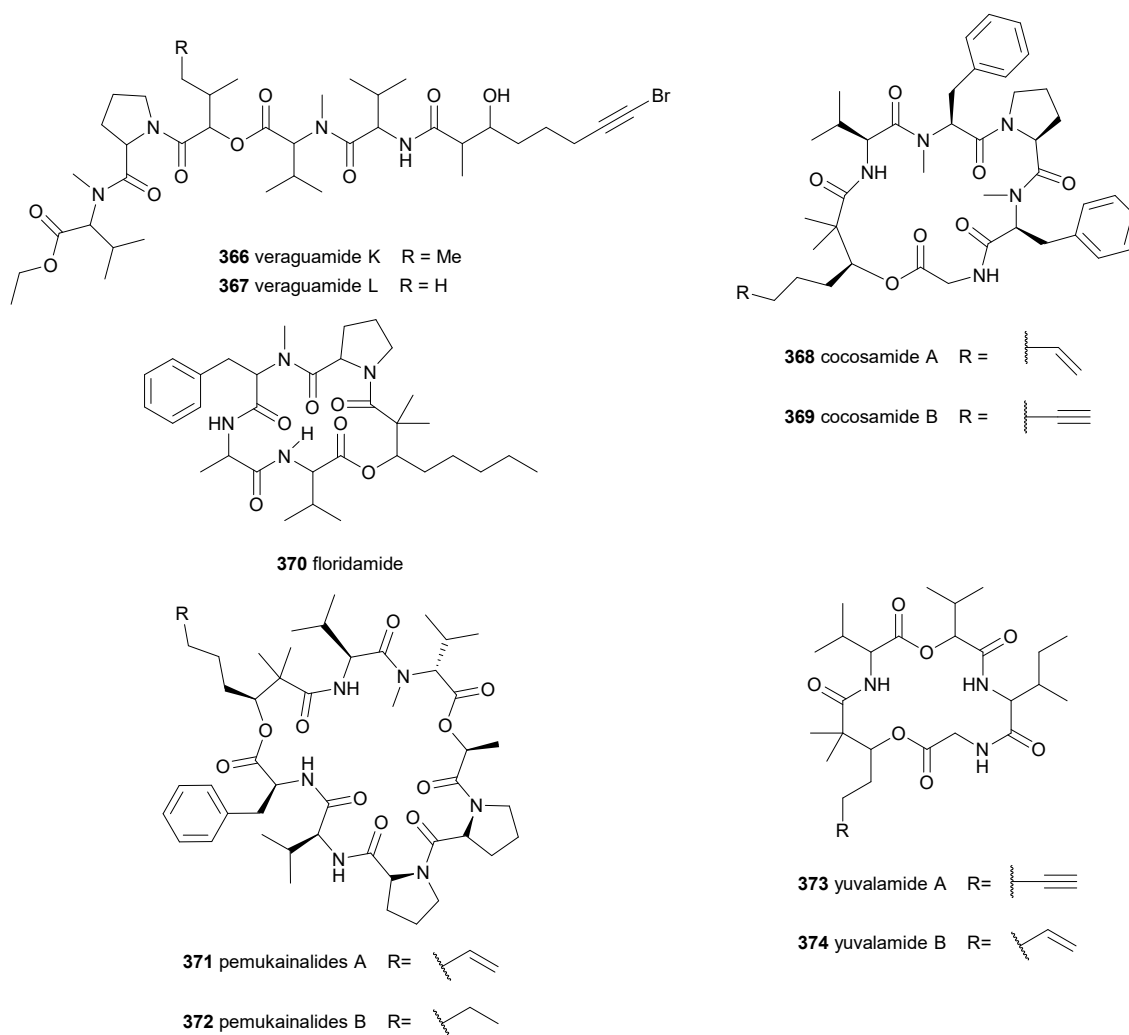
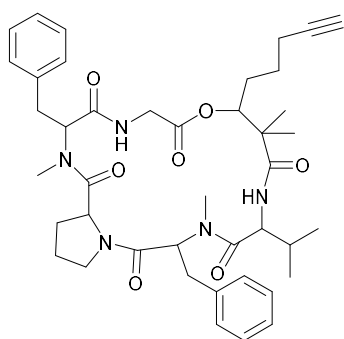
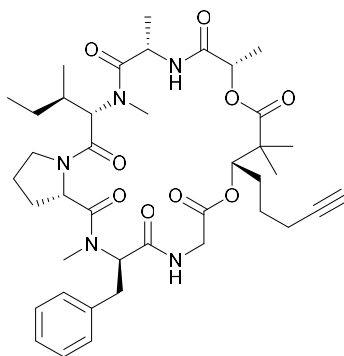


Table S1. (continued)

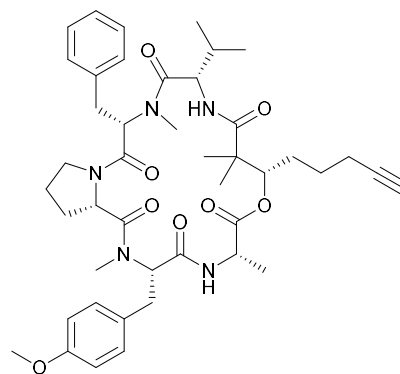
#	Compound	Habitat	Producing organism	DOI
375	guineamide G	M	<i>Lyngbya majuscula</i>	10.4014/jmb.1105.05011
376	dudawalamide A	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.7b00034
377	dudawalamide B	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.7b00034
378	dudawalamide C	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.7b00034
379	dudawalamide D	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.7b00034
380	wewakamide A	M	<i>Lyngbya semiplena</i>	10.4014/jmb.1105.05011
381	companeramide A	M	assemblage	10.1021/np5007907
382	companeramide B	M	assemblage	10.1021/np5007907



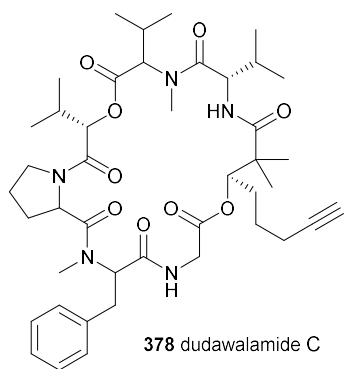
375 uineamide G



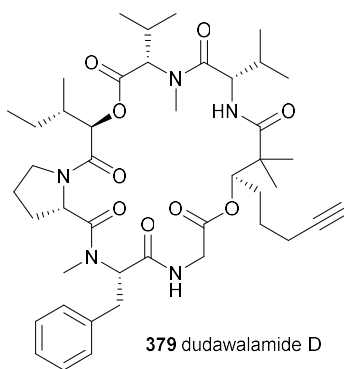
376 dudawalamide A



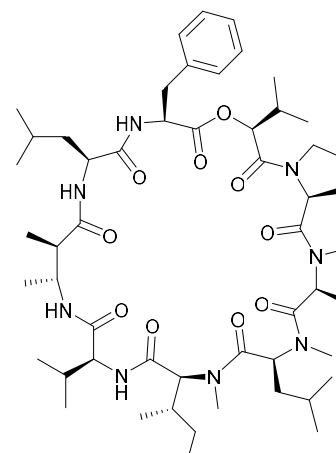
377 dudawalamide B



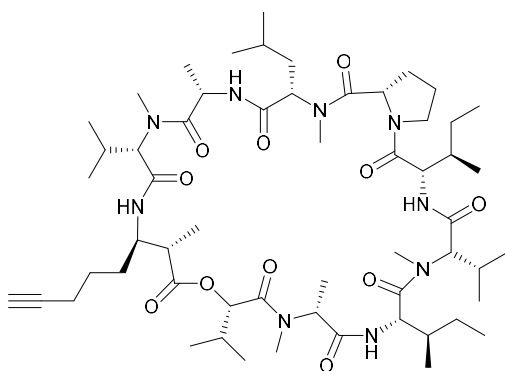
378 dudawalamide C



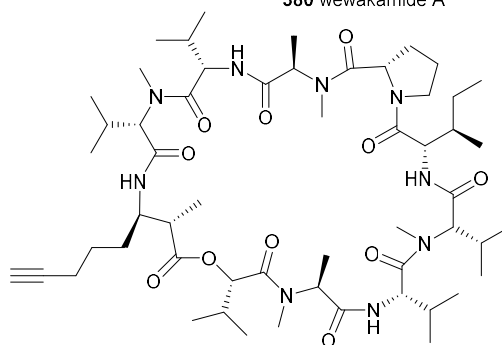
379 dudawalamide D



380 wewakamide A



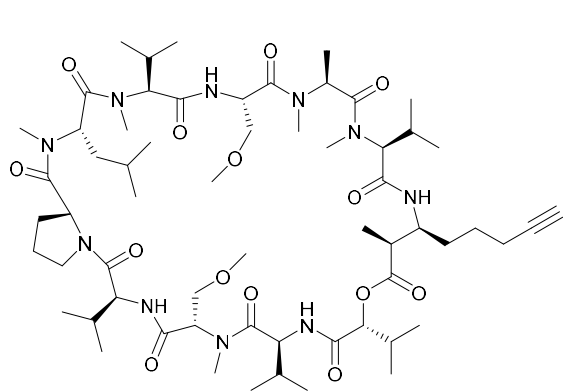
381 companeramide A



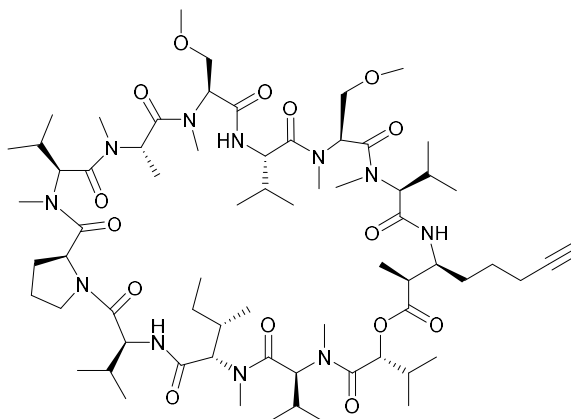
382 companeramide B

Table S1. (continued)

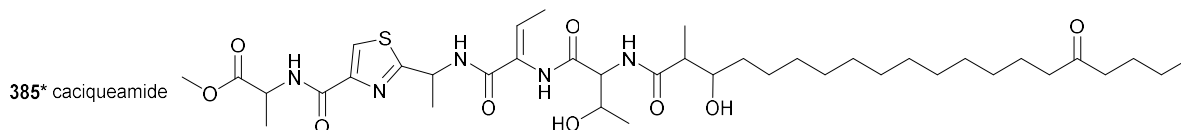
#	Compound	Habitat	Producing organism	DOI
383	portobelamide A	M	<i>Caldora</i> sp.	10.1021/acs.jnatprod.0c01383
384	portobelamide B	M	<i>Caldora</i> sp.	10.1021/acs.jnatprod.0c01383
385*	caciqueamide	M	<i>Caldora</i> sp.	10.1021/acs.jnatprod.0c01383
386	palmyramide A	M	<i>Lyngbya majuscula</i>	10.1021/np900428h
387	pitiprolamide	M	<i>Lyngbya majuscula</i>	10.1021/np1006839
388	precarriebowmide	M	<i>Moorea producens</i>	10.1021/np400347f



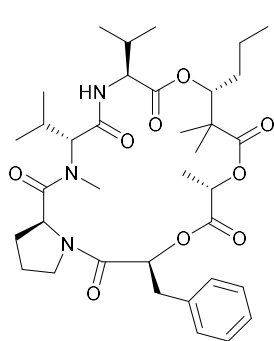
383 portobelamide A



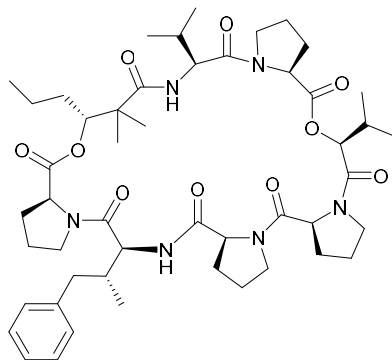
384 portobelamide B



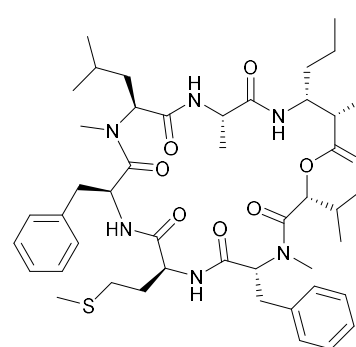
385* caciqueamide



386 palmyramide A



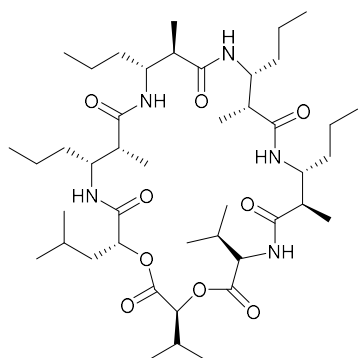
387 pitiprolamide



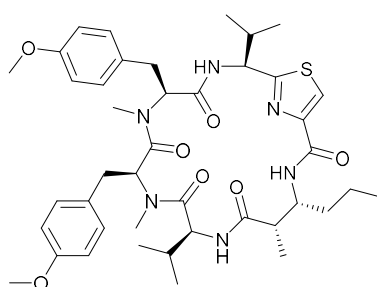
388 precarriebowmide

Table S1. (continued)

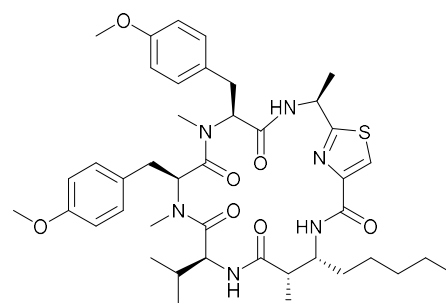
#	Compound	Habitat	Producing organism	DOI
389	medusamide	M	n.r.	10.1021/acs.orglett.5b03110
390	kakeromamide A	M	<i>Moorea bouillonii</i>	10.1016/j.bmcl.2018.04.067
391	kakeromamide B	M	<i>Moorea producens</i>	10.3390/md18030167
392	porpoisamide A	M	<i>Lyngbya</i> sp.	10.1016/j.bmc.2011.05.051
393	porpoisamide B	M	<i>Lyngbya</i> sp.	10.1016/j.bmc.2011.05.051
394	scytonemide B	F	<i>Scytonema hofmannii</i>	10.1021/np100600z
395	scytonemide A	F	<i>Scytonema hofmannii</i>	10.1021/np100600z
396	nostocyclopeptide M1	M	<i>Nostoc</i> sp.	10.1002/cbic.201000179
397	nostocyclopeptide Ncp-A2-L	M	<i>Nostoc edaphicum</i>	10.3390/md18090442



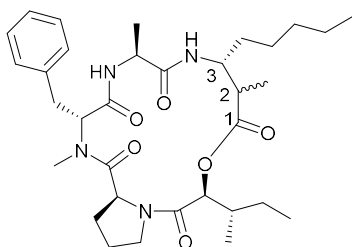
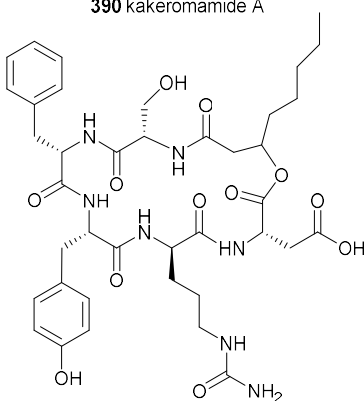
389 medusamide



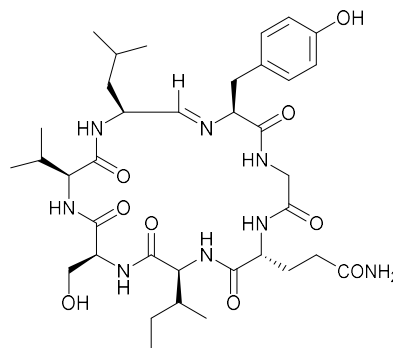
390 kakeromamide A



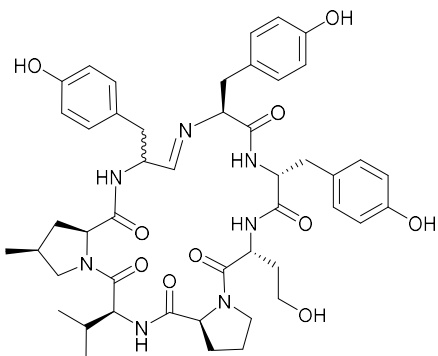
391 kakeromamide B

392 porpoisamide A 2S
393 porpoisamide B 2R

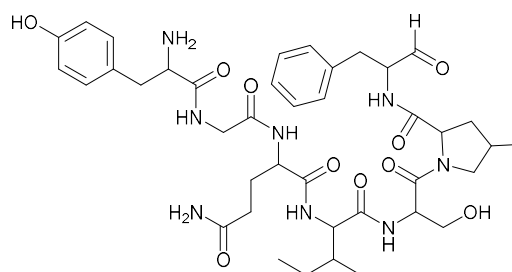
394 scytonemide B



395 scytonemide A



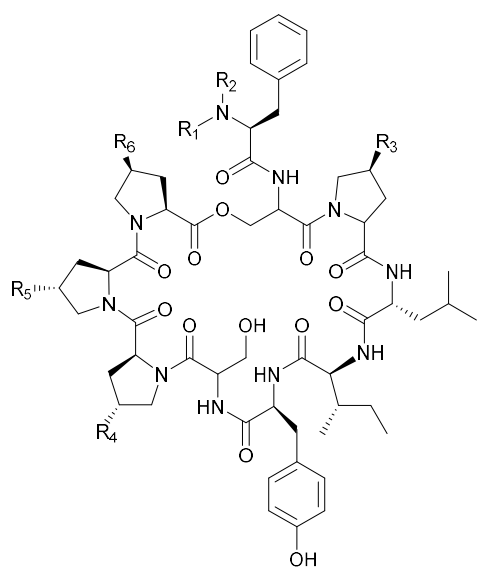
396 nostocyclopeptide M1



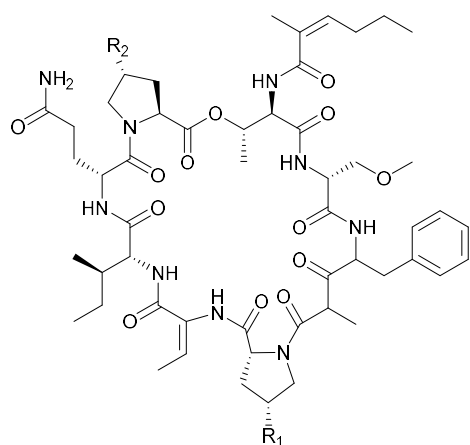
397 nostocyclopeptide Ncp-A2-L

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
398	nostoweipeptin W1	F	<i>Nostoc</i> sp.	10.1021/cb500436p
399	nostoweipeptin W2	F	<i>Nostoc</i> sp.	10.1021/cb500436p
400	nostoweipeptin W3	F	<i>Nostoc</i> sp.	10.1021/cb500436p
401	nostoweipeptin W4	F	<i>Nostoc</i> sp.	10.1021/cb500436p
402	nostoweipeptin W5	F	<i>Nostoc</i> sp.	10.1021/cb500436p
403	nostoweipeptin W6	F	<i>Nostoc</i> sp.	10.1021/cb500436p
404	nostoweipeptin W7	F	<i>Nostoc</i> sp.	10.1021/cb500436p
405	nostopeptolide L1	F	<i>Nostoc</i> sp.	10.1021/cb500436p
406	nostopeptolide L2	F	<i>Nostoc</i> sp.	10.1021/cb500436p
407	nostopeptolide L3	F	<i>Nostoc</i> sp.	10.1021/cb500436p
408	nostopeptolide L4	F	<i>Nostoc</i> sp.	10.1021/cb500436p



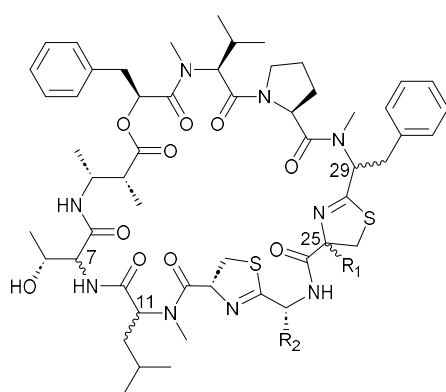
398	nostoweipeptin W1	R ₁ =CH ₃ CO	R ₂ =CH ₃	R ₃ =CH ₃	R ₄ =OH	R ₅ =OH	R ₆ =CH ₃
399	nostoweipeptin W2	R ₁ =CH ₃ CO	R ₂ =CH ₃	R ₃ =CH ₃	R ₄ =OH	R ₅ =H	R ₆ =CH ₃
400	nostoweipeptin W3	R ₁ =CH ₃ CO	R ₂ =CH ₃	R ₃ =CH ₃	R ₄ =H	R ₅ =OH	R ₆ =CH ₃
401	nostoweipeptin W4	R ₁ =CH ₃ CO	R ₂ =H	R ₃ =CH ₃	R ₄ =OH	R ₅ =OH	R ₆ =CH ₃
402	nostoweipeptin W5	R ₁ =CH ₃ CO	R ₂ =CH ₃	R ₃ =CH ₃	R ₄ =OH	R ₅ =OH	R ₆ =H
403	nostoweipeptin W6	R ₁ =CH ₃ CO	R ₂ =CH ₃	R ₃ =H	R ₄ =OH	R ₅ =OH	R ₆ =CH ₃
404	nostoweipeptin W7	R ₁ =H	R ₂ =CH ₃	R ₃ =H	R ₄ =OH	R ₅ =OH	R ₆ =CH ₃



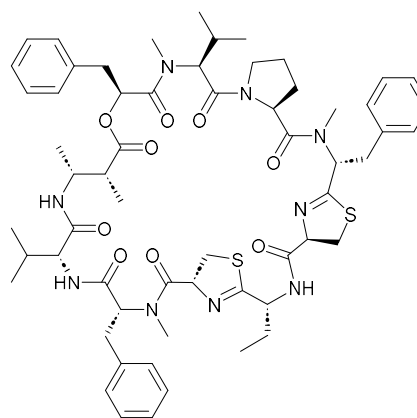
405	nostopeptolide L1	R ₁ =CH ₃	R ₂ =OH
406	nostopeptolide L2	R ₁ =CH ₃	R ₂ =H
407	nostopeptolide L3	R ₁ =H	R ₂ =OH
408	nostopeptolide L4	R ₁ =H	R ₂ =H

Table S1. (continued)

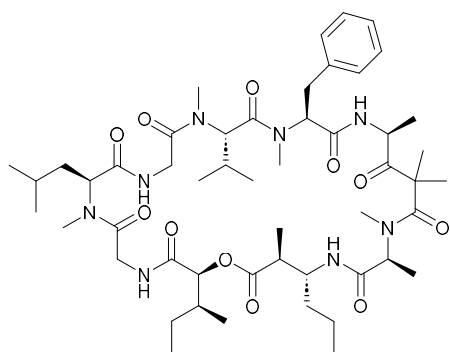
#	Compound	Habitat	Producing organism	DOI
409	grassypeptolide B	M	<i>Lyngbya confervoides</i>	10.1021/jo1013564
410	grassypeptolide C	M	<i>Lyngbya confervoides</i>	10.1021/jo1013564
411	grassypeptolide D	M	<i>Leptolyngbya</i> sp.	10.1021/np200270d
412	grassypeptolide E	M	<i>Leptolyngbya</i> sp.	10.1021/np200270d
413	grassypeptolide F	M	<i>Lyngbya majuscula</i>	10.1021/np2005083
414	grassypeptolide G	M	<i>Lyngbya majuscula</i>	10.1021/np2005083
415	Ibu-epidemethoxylyngbyastatin 3	M	<i>Leptolyngbya</i> sp.	10.1021/np200270d
416	urumamide	M	<i>Okeania</i> sp.	10.1016/j.tetlet.2016.08.012
417	triproamide	M	<i>Symploca hydroides</i>	10.1021/acs.jnatprod.1c00996



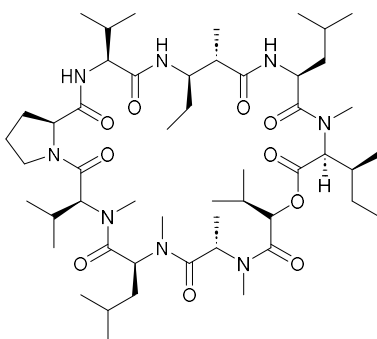
R_1 R_2
409 grassypeptolide B 7*R*, 11*R*, 25*R*, 29*R* H Me
410 grassypeptolide C 7*R*, 11*R*, 25*R*, 29*S* H Et
411 grassypeptolide D 7*R*, 11*R*, 25*S*, 29*S* Me Et
412 grassypeptolide E 7*S*, 11*S*, 25*S*, 29*S* Me Et



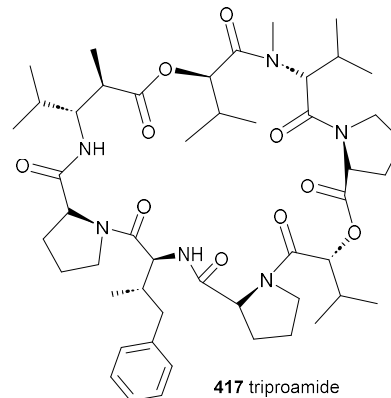
413 grassypeptolide F R = CH₂CH₃
414 grassypeptolide G R = CH₃



415 Ibu-epidemethoxylyngbyastatin 3



416 urumamide



417 triproamide

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
418	muscotoxin A	F	<i>Desmonostoc muscorum</i>	10.1021/tx500382b
419	muscotoxin B	F	<i>Desmonostoc muscorum</i>	10.1021/tx500382b
420	desmamide A	F	<i>Desmonostoc muscorum</i>	10.1021/acs.jnatprod.2c00162
421	desmamide B	F	<i>Desmonostoc muscorum</i>	10.1021/acs.jnatprod.2c00162
422	desmamide C	F	<i>Desmonostoc muscorum</i>	10.1021/acs.jnatprod.2c00162
423	lyngbyacyclamide A	M	<i>Lyngbya</i> sp.	10.1016/j.tetlet.2010.06.105
424	lyngbyacyclamide B	M	<i>Lyngbya</i> sp.	10.1016/j.tetlet.2010.06.105

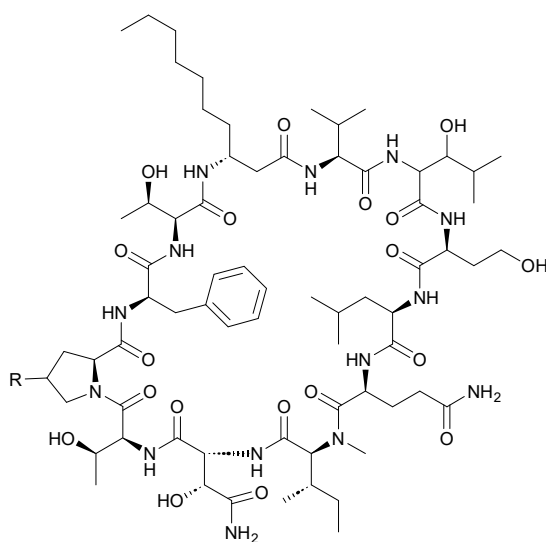
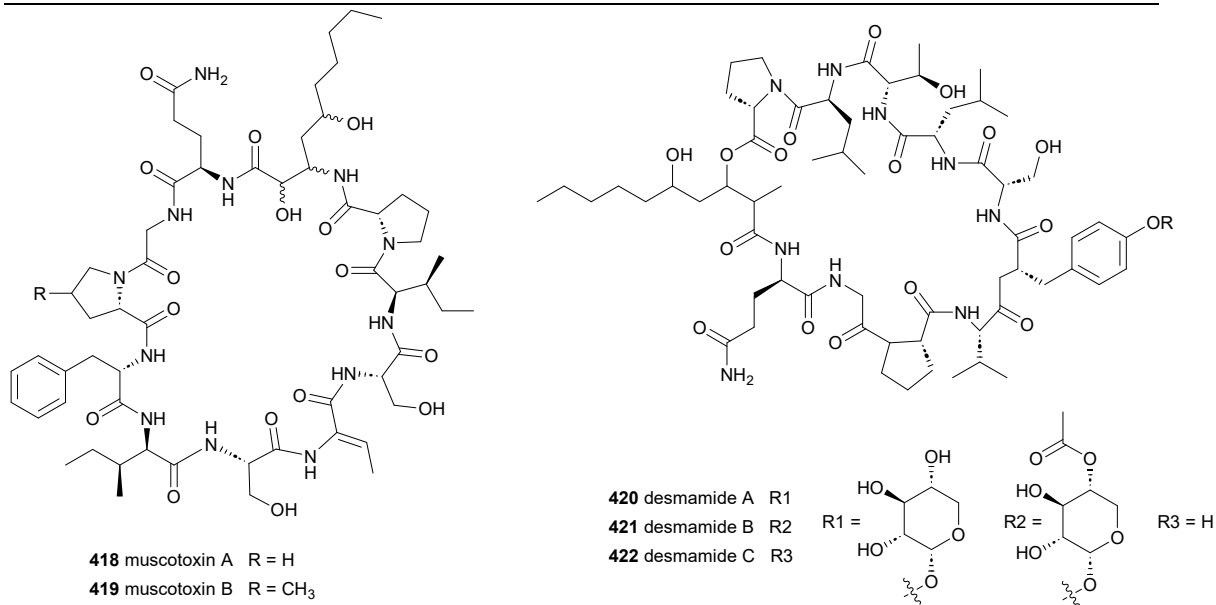
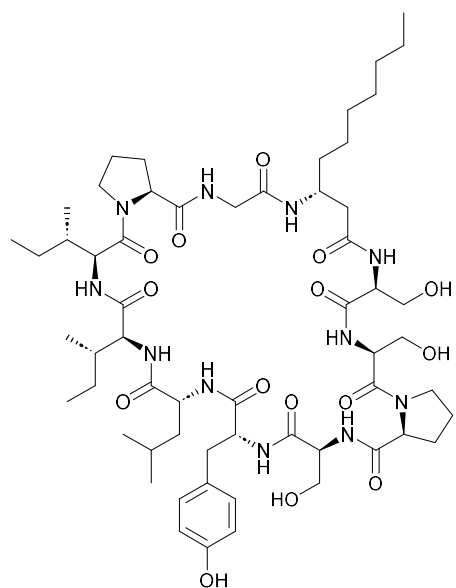
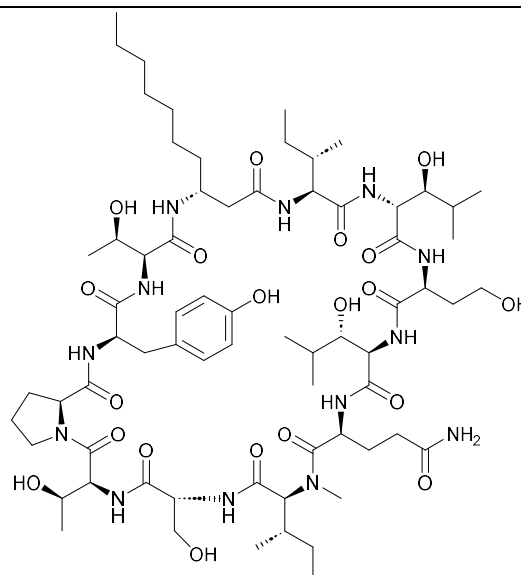


Table S1. (continued)

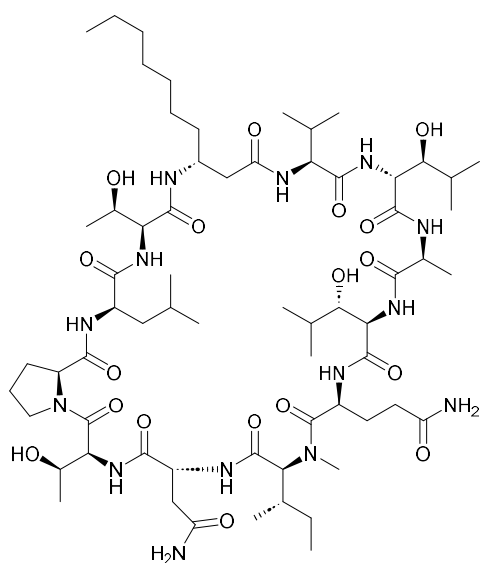
#	Compound	Habitat	Producing organism	DOI
425	trichormamide A	F	<i>Trichormus</i> sp.	10.1021/np5003548
426	trichormamide B	F	<i>Trichormus</i> sp.	10.1021/np5003548
427	trichormamide C	F	cf. <i>Oscillatoria</i> sp.	10.1016/j.bmc.2015.04.073
428	trichormamide D	F	cf. <i>Oscillatoria</i> sp.	10.1016/j.bmc.2015.04.073



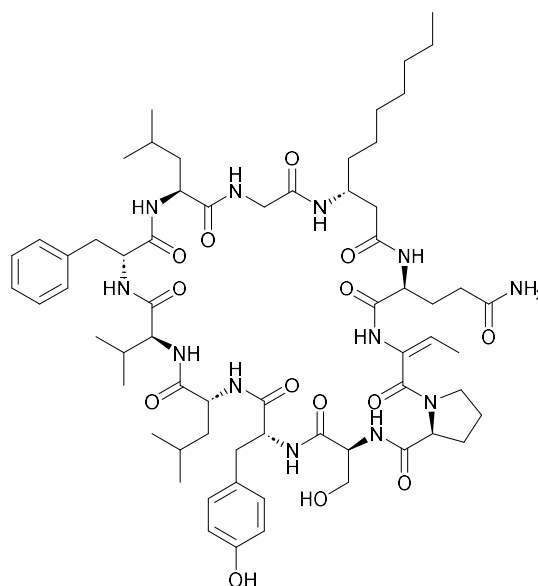
425 trichormamide A



426 trichormamide B



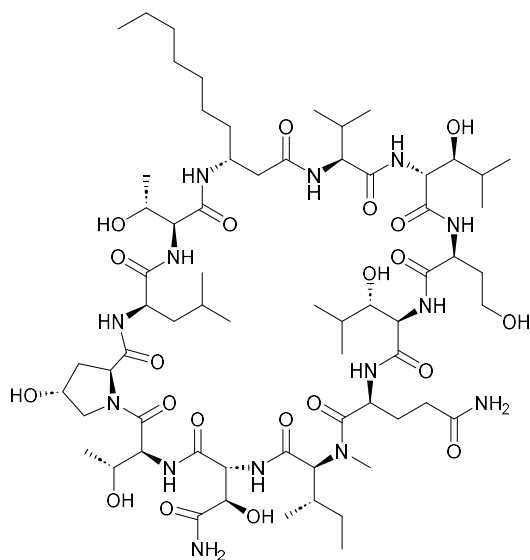
427 trichormamide C



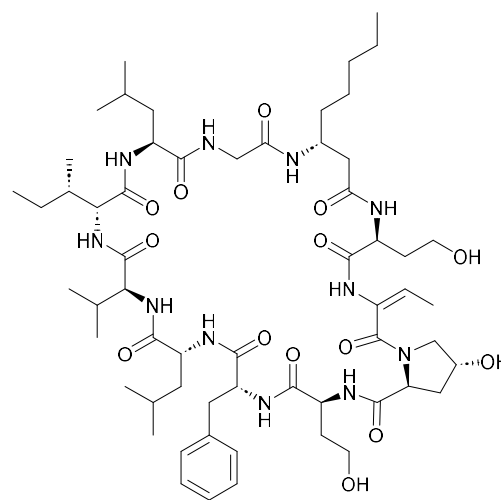
428 trichormamide D

Table S1. (continued)

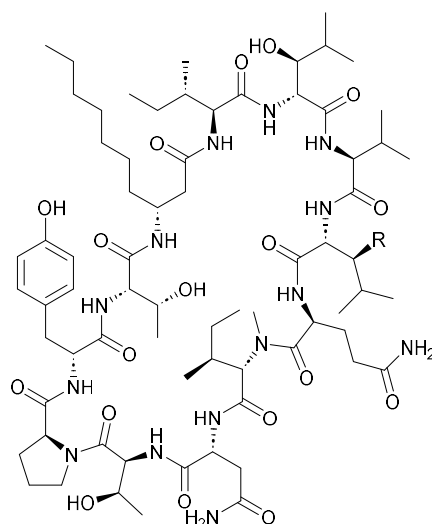
#	Compound	Habitat	Producing organism	DOI
429	laxaphycin B4	M	<i>Hormothamnion</i> <i>enteromorphoides</i>	10.1016/j.bmc.2018.03.022
430	laxaphycin A2	M	<i>Hormothamnion</i> <i>enteromorphoides</i>	10.1016/j.bmc.2018.03.022
431	laxaphycin B5	F	<i>Phormidium</i> sp.	10.1038/s41429-020-0301-x
432	laxaphycin B6	F	<i>Phormidium</i> sp.	10.1038/s41429-020-0301-x



429 laxaphycin B4



430 laxaphycin A2

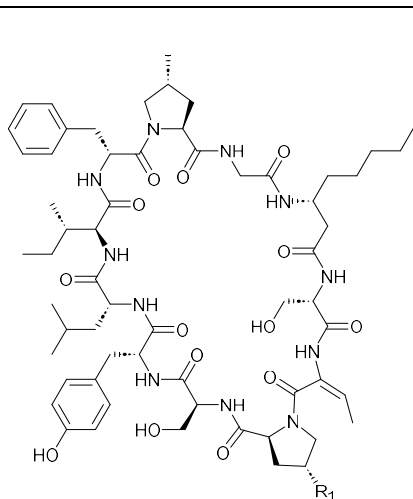


431 laxaphycin B5 R = OH

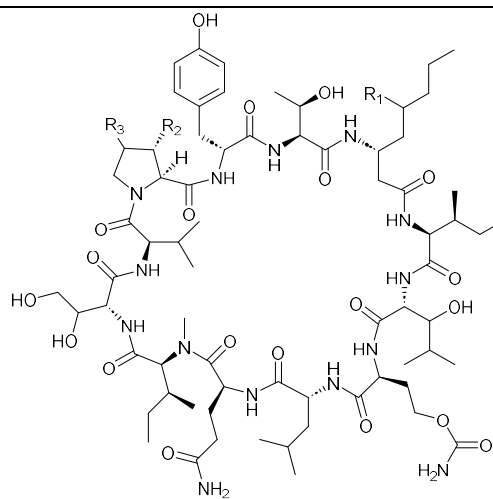
432 laxaphycin B6 R = H

Table S1. (continued)

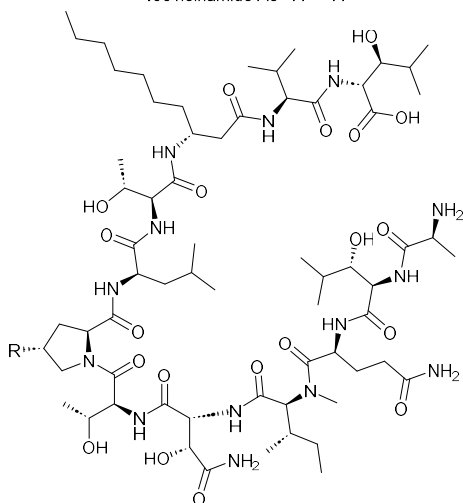
#	Compound	Habitat	Producing organism	DOI
433	heinamide A1	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
434	heinamide A2	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
435	heinamide A3	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
436	heinamide B1	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
437	heinamide B2	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
438	heinamide B3	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
439	heinamide B4	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
440	heinamide B5	F	<i>Nostoc</i> sp.	10.1039/D1OB00772F
441	acyclolaxaphycin B	M	<i>Anabaena</i> cf. <i>torulosa</i>	10.3390/md13127065
442	acyclolaxaphycin B3	M	<i>Anabaena</i> cf. <i>torulosa</i>	10.3390/md13127065
443	acyclolaxaphycin A	M	<i>Anabaena torulosa</i>	10.1016/j.bmc.2019.03.046



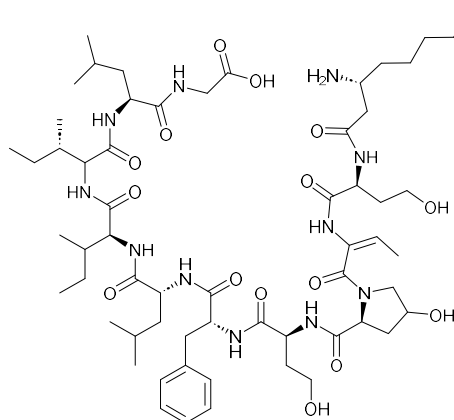
R_1 R_2
433 heinamide A1 OH OH
434 heinamide A2 H OH
435 heinamide A3 H H



R_1 R_2 R_3
436 heinamide B1 OH OH CH₃
437 heinamide B2 OH H H
438 heinamide B3 H H H
439 heinamide B4 H OH CH₃
440 heinamide B5 OH H CH₃



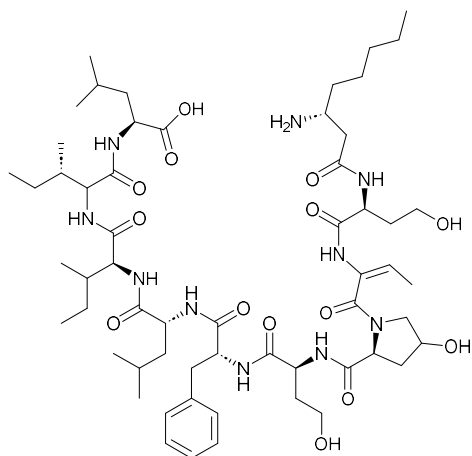
441 acyclolaxaphycin B R = H [(2S)-Pro]
442 acyclolaxaphycin B3 R = OH [(2S, 4R)-Pro]



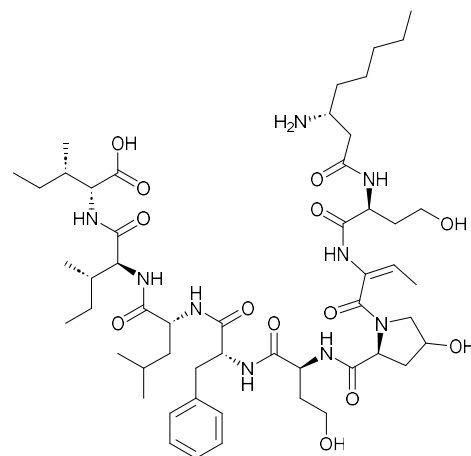
443 acyclolaxaphycin A

Table S1. (continued)

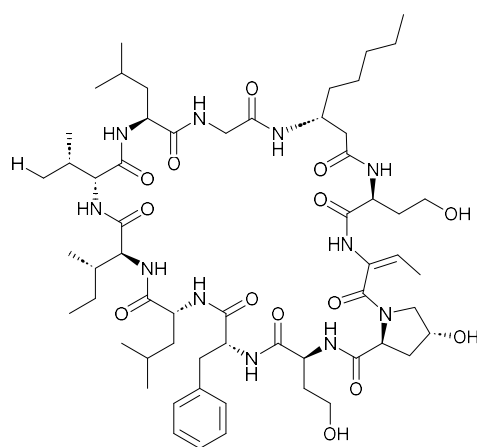
#	Compound	Habitat	Producing organism	DOI
444	[des-Gly11]acyclolaxaphycin A	M	<i>Anabaena torulosa</i>	10.1016/j.bmc.2019.03.046
445	[des-(Leu10-Gly11)]acyclolaxaphycin A	M	<i>Anabaena torulosa</i>	10.1016/j.bmc.2019.03.046
446	[L-Val8] laxaphycin A	M	<i>Anabaena torulosa</i>	10.1016/j.bmc.2019.03.046
447	[D-Val9] laxaphycin A	M	<i>Anabaena torulosa</i>	10.1016/j.bmc.2019.03.046



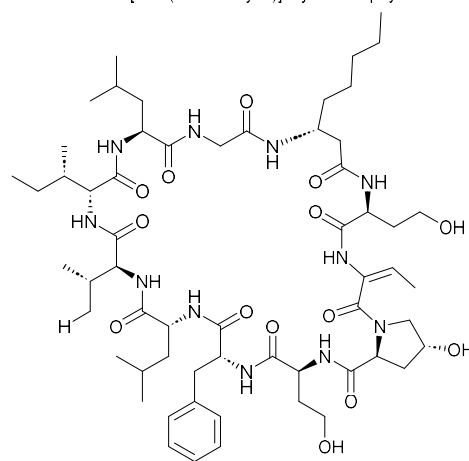
444 [des-Gly11]acyclolaxaphycin A



445 [des-(Leu10-Gly11)]acyclolaxaphycin A



446 [L-Val8]laxaphycin A



447 [D-Val9]laxaphycin A

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
448	minutissamide A	F	<i>Anabaena minutissima</i>	10.1021/np2002226
449	minutissamide B	F	<i>Anabaena minutissima</i>	10.1021/np2002226
450	minutissamide C	F	<i>Anabaena minutissima</i>	10.1021/np2002226
451	minutissamide D	F	<i>Anabaena minutissima</i>	10.1021/np2002226
452	minutissamide E	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
453	minutissamide F	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
454	minutissamide G	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
455	minutissamide H	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
456	minutissamide I	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
457	minutissamide J	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
458	minutissamide K	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017
459	minutissamide L	F	cf. <i>Anabaena</i> sp.	10.1016/j.bmc.2012.08.017

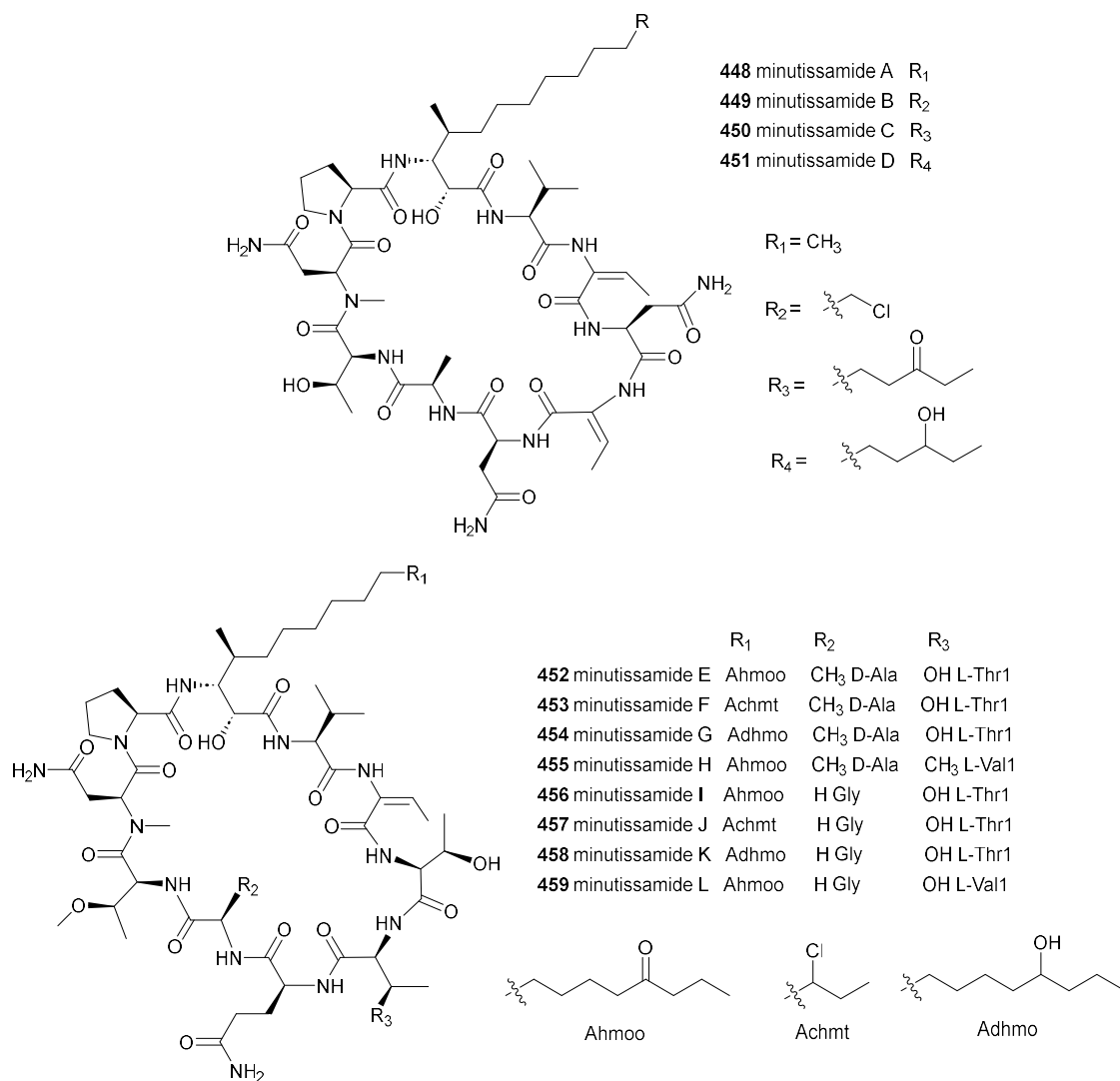
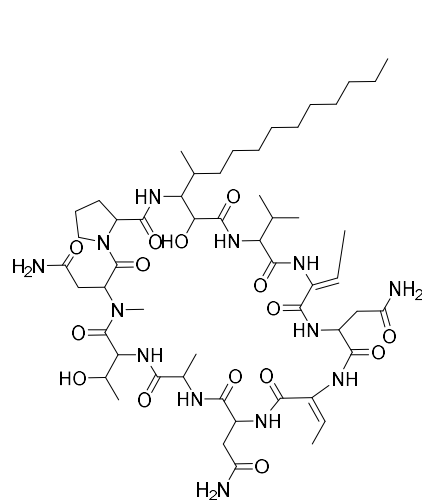
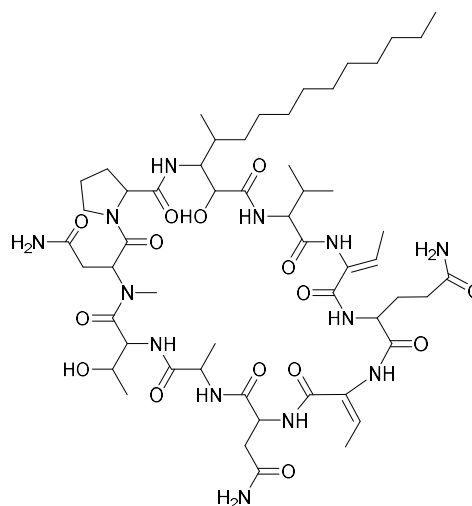


Table S1. (continued)

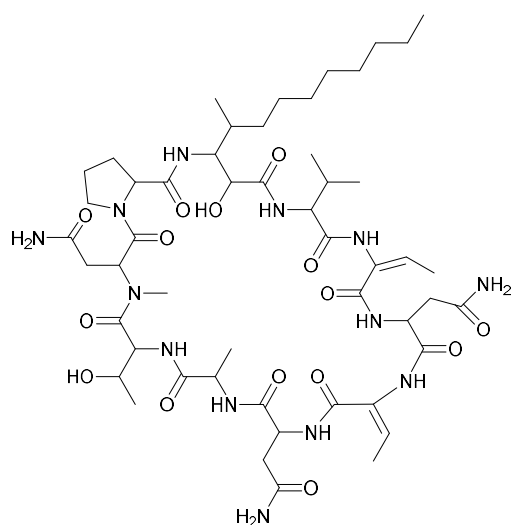
#	Compound	Habitat	Producing organism	DOI
460	puwainaphycin F (Puw F)	F	<i>Cylindrospermum alatosporum</i>	10.1021/tx300044t
461	puwainaphycin G (Puw G)	F	<i>Cylindrospermum alatosporum</i>	10.1021/tx300044t
462	4-methyl-Ahdoa Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1371/journal.pone.0111904
463	4-methyl-Ahdoa Puw-G	F	<i>Cylindrospermum alatosporum</i>	10.1371/journal.pone.0111904



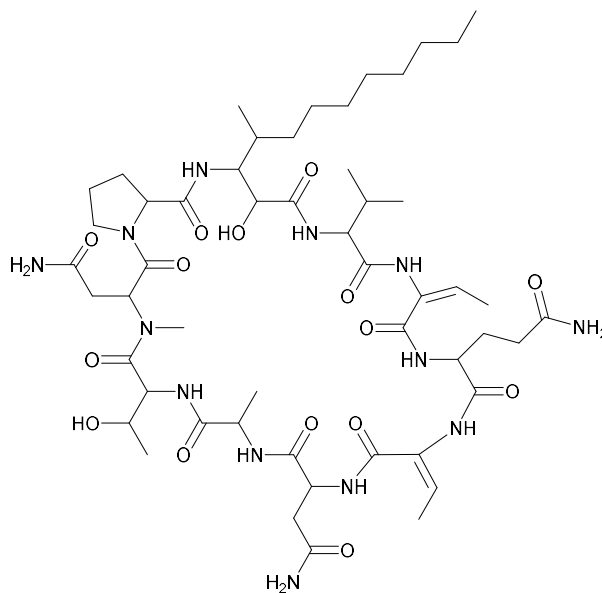
460 puwainaphycin F (Puw F)



461 puwainaphycin G (Puw G)



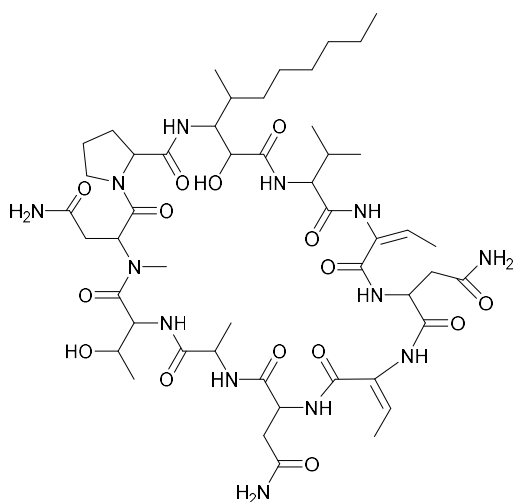
462 4-methyl-Ahdoa-Puw-F



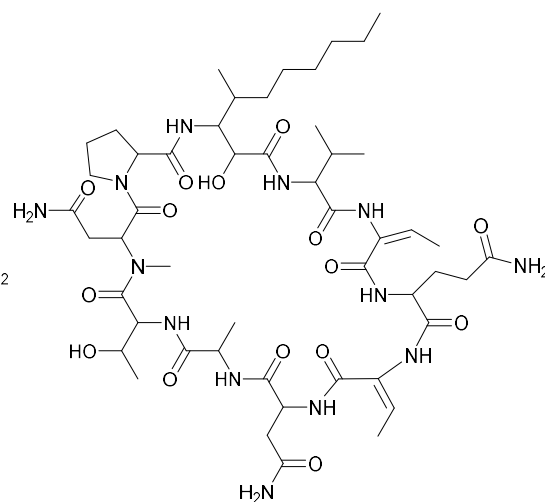
463 4-methyl-Ahdoa-Puw-G

Table S1. (continued)

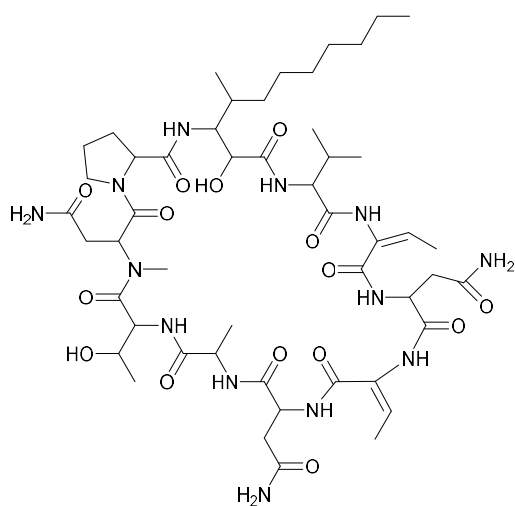
#	Compound	Habitat	Producing organism	DOI
464	4-methyl-Ahdea Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013
465	4-methyl-Ahdea Puw G	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013
466	4-methyl-Ahuda Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013
467	4-methyl-Ahuda Puw G	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013



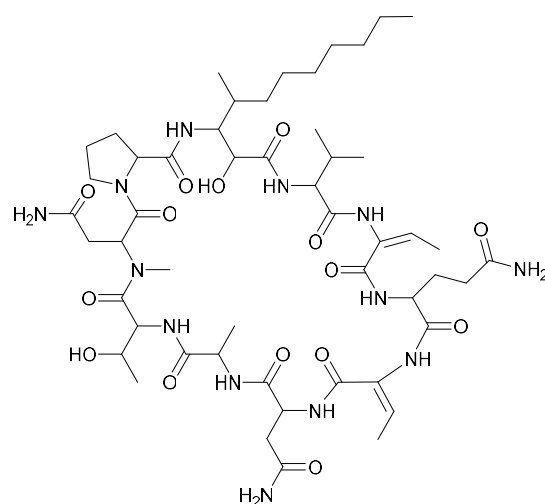
464 4-methyl-Ahdea-Puw-F



465 4-methyl-Ahdea-Puw-G



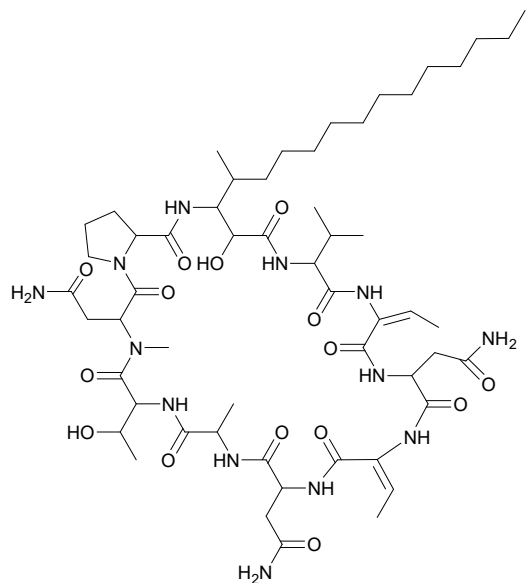
466 4-methyl-Ahuda-Puw-F



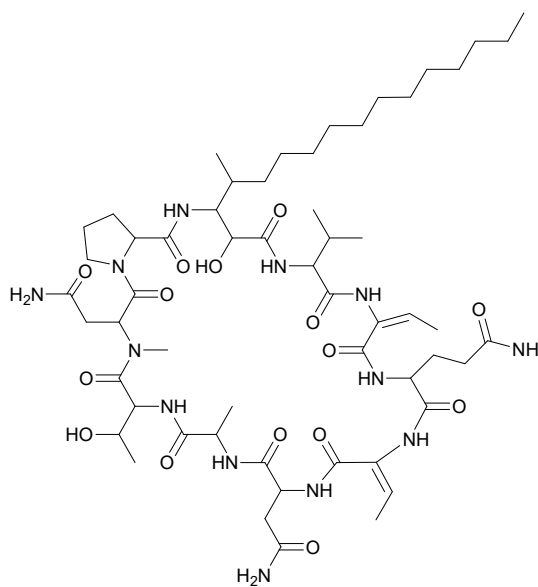
467 4-methyl-Ahuda-Puw-G

Table S1. (continued)

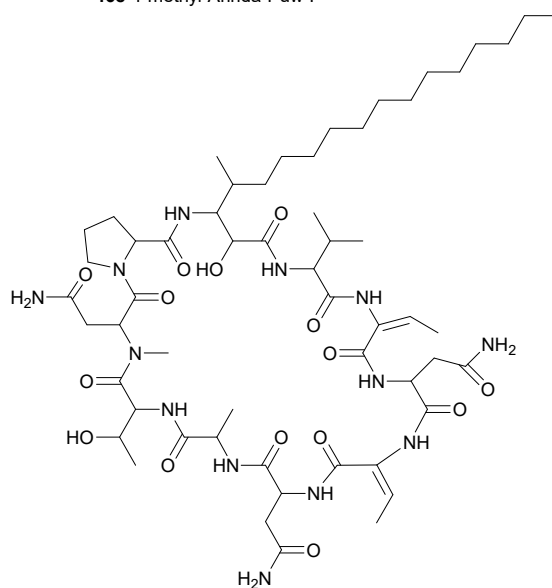
#	Compound	Habitat	Producing organism	DOI
468	4-methyl-Ahhda Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013
469	4-methyl-Ahhda Puw G	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013
470	4-methyl-Ahhea Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1016/j.chroma.2016.02.013
471	12-hydroxy-4-methyl-Ahtea Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1007/s00216-016-0066-z



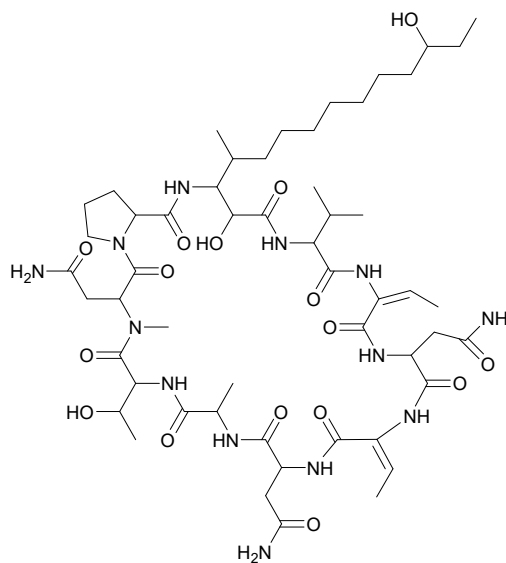
468 4-methyl-Ahhda-Puw-F



469 4-methyl-Ahhda-Puw-G



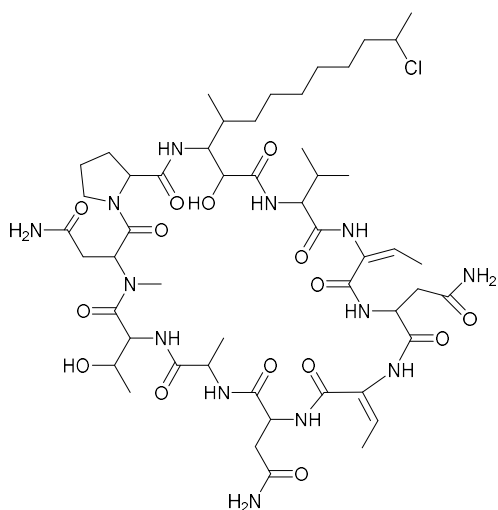
470 4-methyl-Ahhea-Puw-F



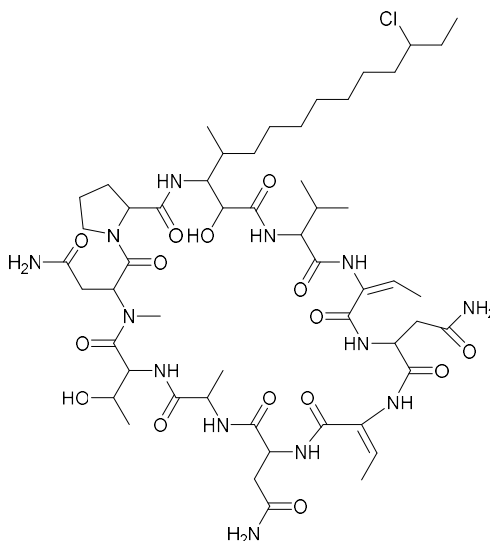
471 12-hydroxy-4-methyl-Ahtea Puw F

Table S1. (continued)

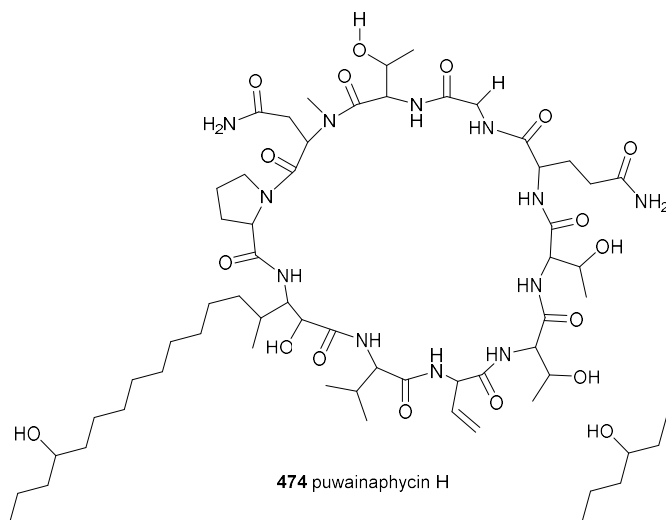
#	Compound	Habitat	Producing organism	DOI
472	11-chloro-4-methyl-Ahdoa Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1007/s00216-016-0066-z
473	12-chloro-4-methyl-Ahtea Puw F	F	<i>Cylindrospermum alatosporum</i>	10.1007/s00216-016-0066-z
474	puwainaphycin H	F	<i>Nodularia harveyana</i>	10.1021/acsomega.1c07160
475	puwainaphycin I	F	<i>Nodularia harveyana</i>	10.1021/acsomega.1c07160



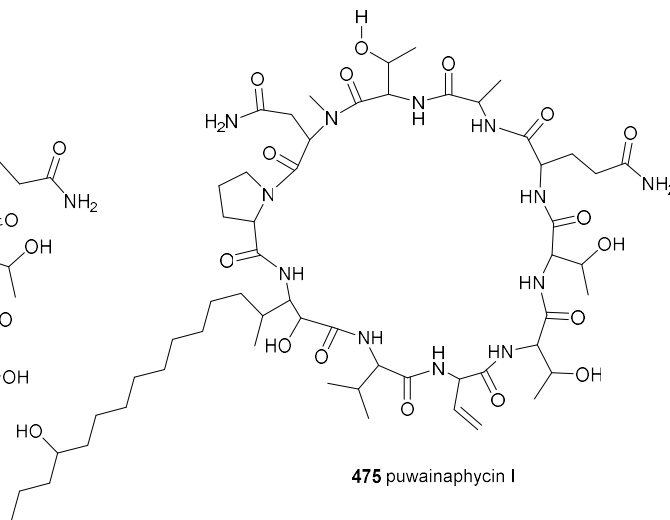
472 11-chloro-4-methyl-Ahdoa Puw F



473 12-chloro-4-methyl-Ahtea Puw F



474 puwainaphycin H



475 puwainaphycin I

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
476	puwainaphycin J	F	<i>Nodularia harveyana</i>	10.1021/acsomega.1c07160
477	puwainaphycin K	F	<i>Nodularia harveyana</i>	10.1021/acsomega.1c07160
478	puwainaphycin L	F	<i>Nodularia harveyana</i>	10.1021/acsomega.1c07160

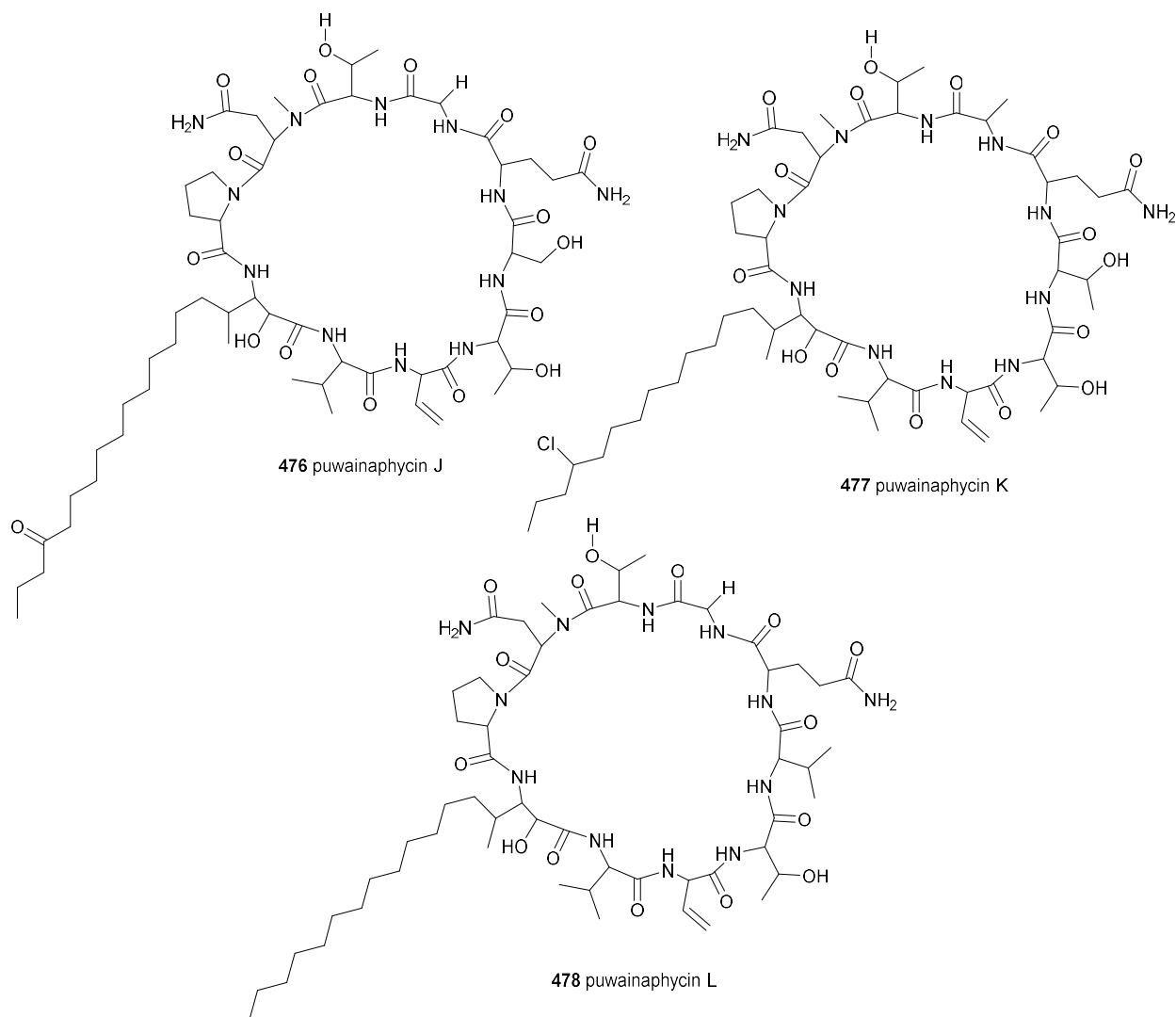
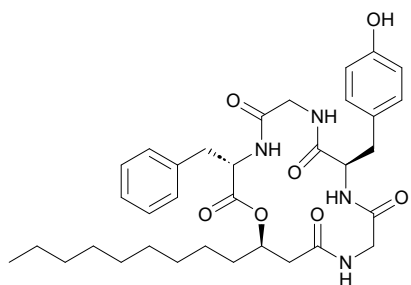
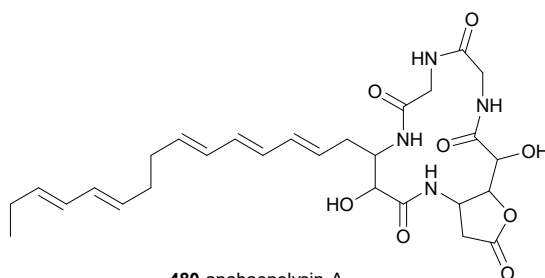


Table S1. (continued)

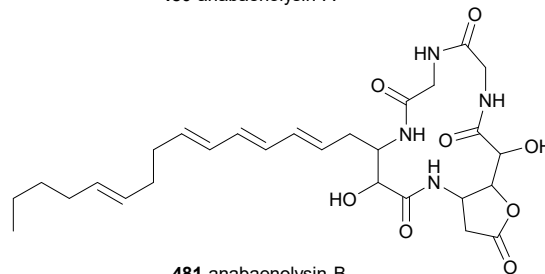
#	Compound	Habitat	Producing organism	DOI
479	unnarmicin D	M	<i>Trichodesmium thiebautii</i>	10.3390/md15070206
480	anabaenolysin A	M	<i>Anabaena</i> sp.	10.1371/journal.pone.0041222
481	anabaenolysin B	M	<i>Anabaena</i> sp.	10.1371/journal.pone.0041222
482	hassallidin C	F	<i>Anabaena</i> sp.	10.1073/pnas.1320913111



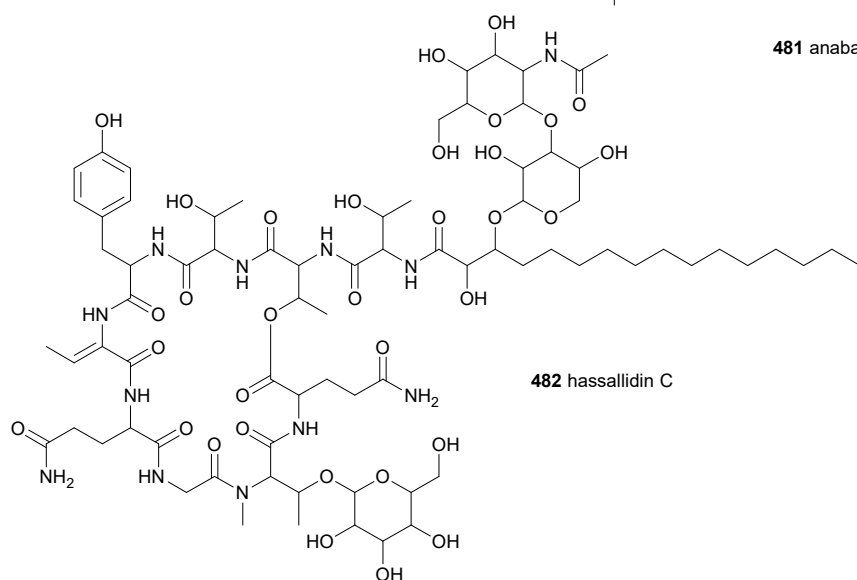
479 unnarmicin D



480 anabaenolysin A



481 anabaenolysin B



482 hassallidin C

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
483	hassallidin D	F	<i>Anabaena</i> sp.	10.1073/pnas.1320913111
484	hassallidin E	F	<i>Planktothrix sarta</i>	10.1021/acschembio.7b00093

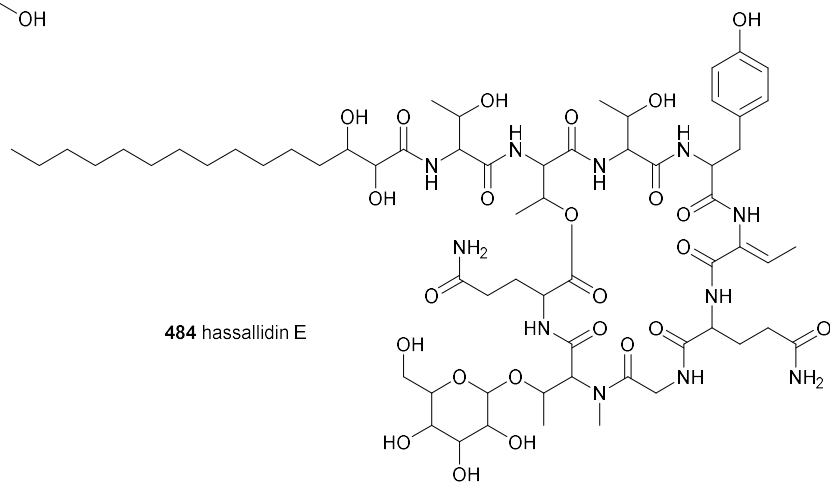
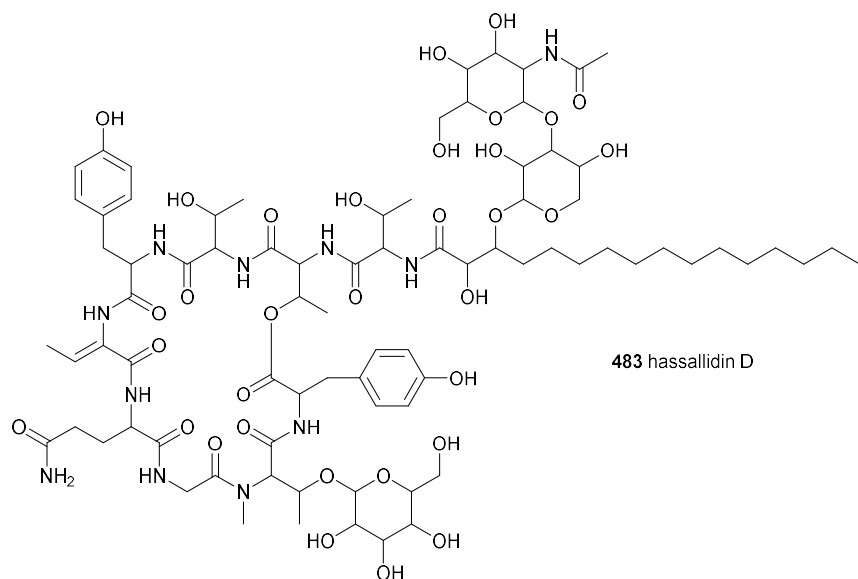


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
485	balticidin A	B	<i>Anabaena cylindrica</i>	10.1021/np401020a
486	balticidin B	B	<i>Anabaena cylindrica</i>	10.1021/np401020a
487	balticidin C	B	<i>Anabaena cylindrica</i>	10.1021/np401020a
488	balticidin D	B	<i>Anabaena cylindrica</i>	10.1021/np401020a

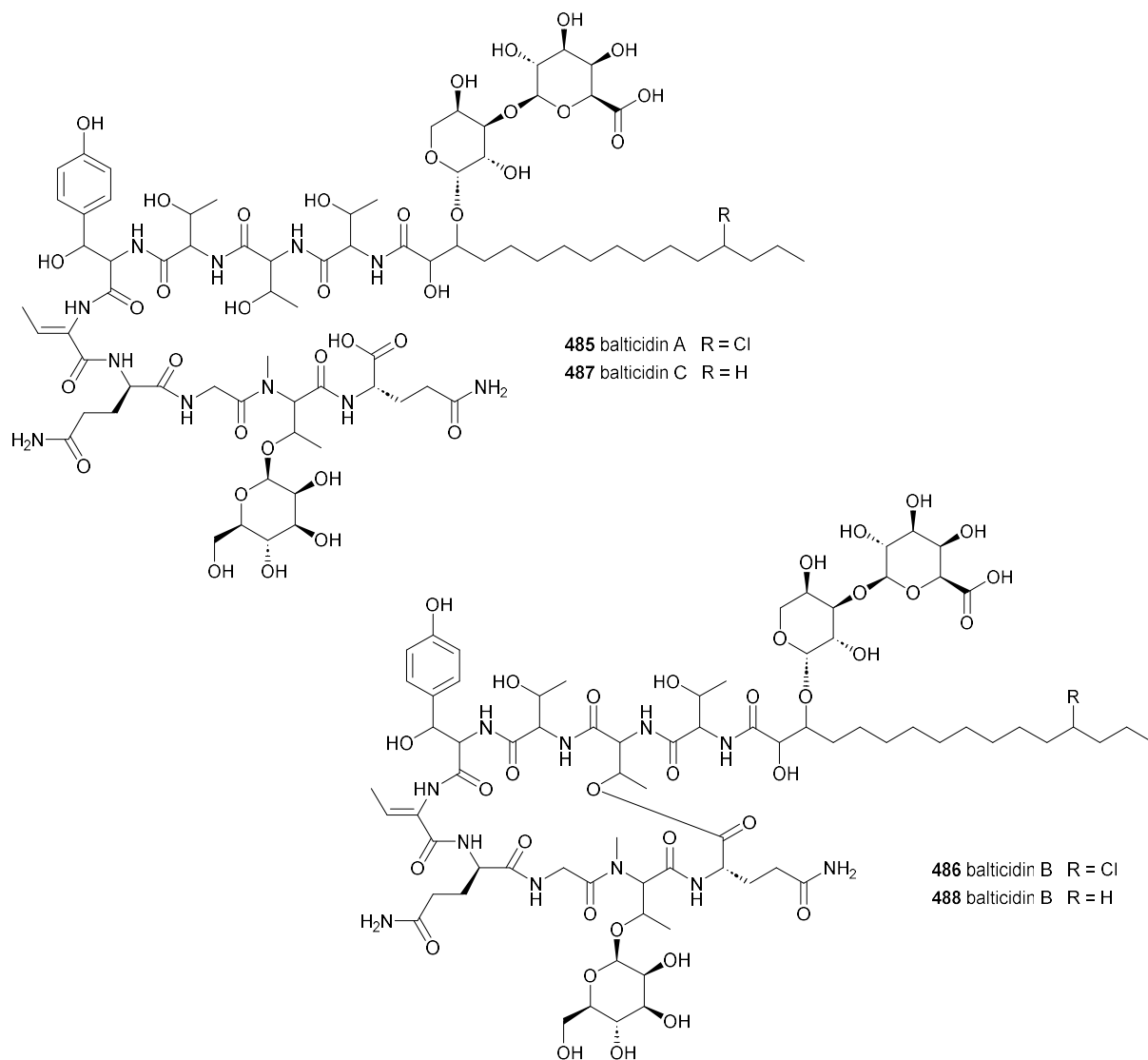
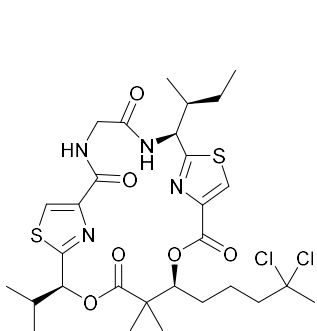
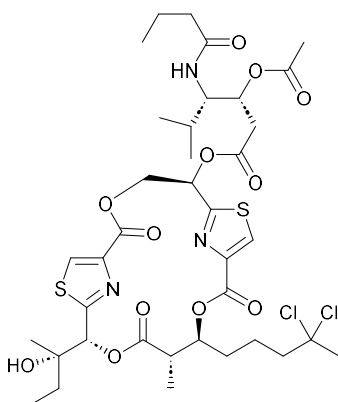


Table S1. (continued)

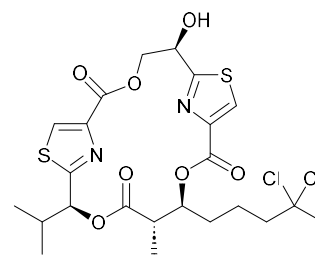
#	Compound	Habitat	Producing organism	DOI
489	27-deoxylyngbyabellin A	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
490	lyngbyabellin J	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
491	lyngbyabellin K	M	<i>Moorea bouillonii</i>	10.1002/ejoc.201200691
492	lyngbyabellin L	M	<i>Moorea bouillonii</i>	10.1002/ejoc.201200691
493	lyngbyabellin M	M	<i>Moorea bouillonii</i>	10.1002/ejoc.201200691
494	lyngbyabellin N	M	<i>Moorea bouillonii</i>	10.1002/ejoc.201200691
495	7-epi-lyngbyabellin L	M	<i>Moorea bouillonii</i>	10.1002/ejoc.201200691



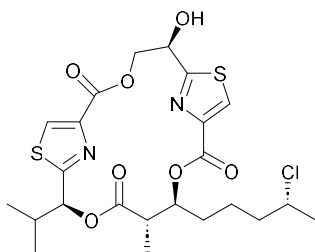
489 27-deoxylyngbyabellin A



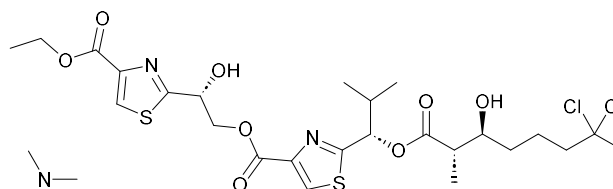
490 lyngbyabellin J



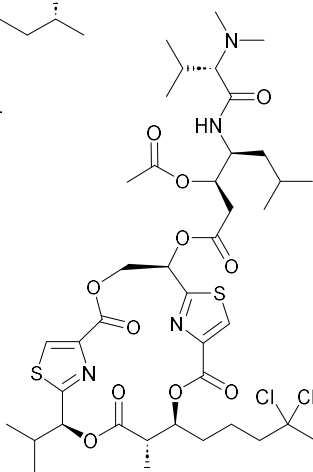
491 lyngbyabellin K



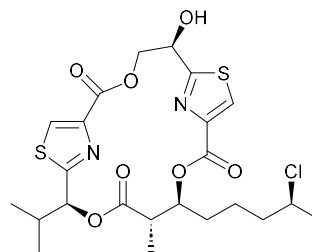
492 lyngbyabellin L



493 lyngbyabellin M



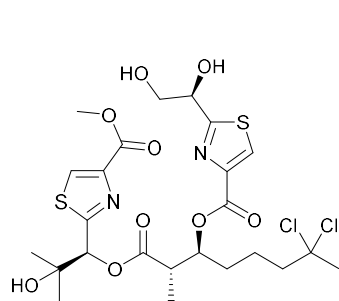
494 lyngbyabellin N



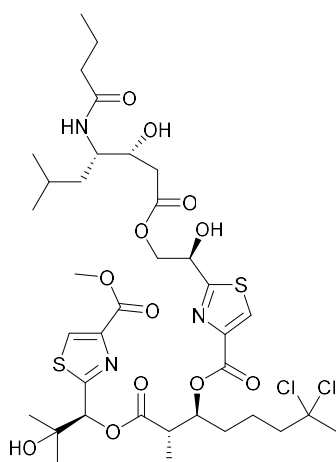
495 7-epi-lyngbyabellin L

Table S1. (continued)

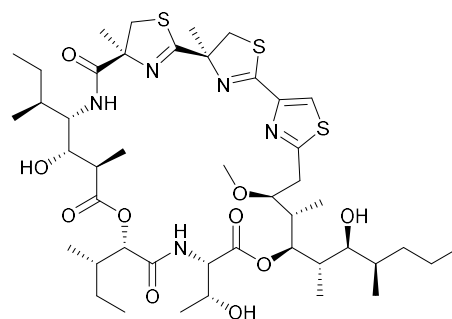
#	Compound	Habitat	Producing organism	DOI
496	lyngbyabellin O	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00449
497	lyngbyabellin P	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00449
498*	hoiamide B	M	<i>Symploca</i> sp. and cf. <i>Oscillatoria</i> sp. (assemblage)	10.1021/np100468n
499	hoiamide C	M	<i>Symploca</i> sp.	10.1021/np100468n
500	hoiamide D	M	<i>Symploca</i> sp.	10.1016/j.bmcl.2011.10.054
501	bouillonamide	M	<i>Moorea bouillonii</i>	10.3390/md11083015
502	alotamide B	M	<i>Moorena</i> sp.	10.1246/cl.230035



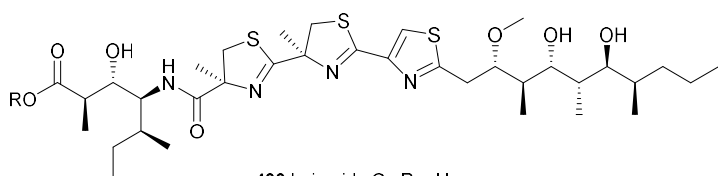
496 lyngbyabellin O



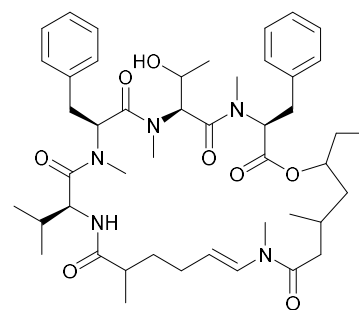
497 lyngbyabellin P



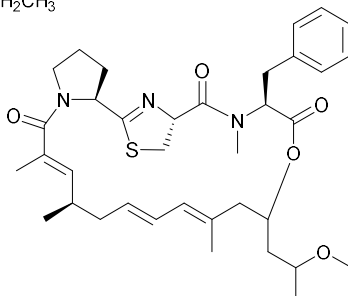
498* hoiamide B



499 hoiamide C R = H

500 hoiamide D R = CH₂CH₃

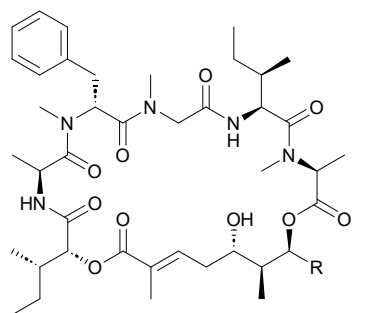
501 bouillonamide



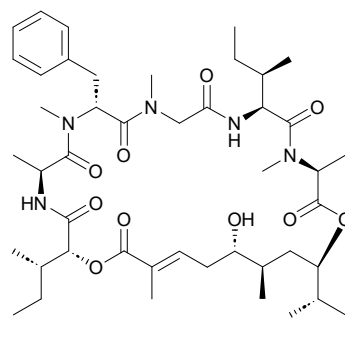
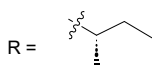
502 alotamide B

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
503	lagunamide A	M	<i>Lyngbya majuscula</i>	10.1021/np100442x
504	lagunamide B	M	<i>Lyngbya majuscula</i>	10.1021/np100442x
505	lagunamide C	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2011.08.019
506	lagunamide D'	M	<i>Dichothrix</i> sp. and <i>Lyngbya</i> sp. (assemblage)	10.3390/md17020083
507	lagunamide D	M	<i>Dichothrix</i> sp. and <i>Lyngbya</i> sp. (assemblage)	10.3390/md17020083
508	odoamide	M	<i>Okeania</i> sp.	10.1016/j.tet.2016.07.031

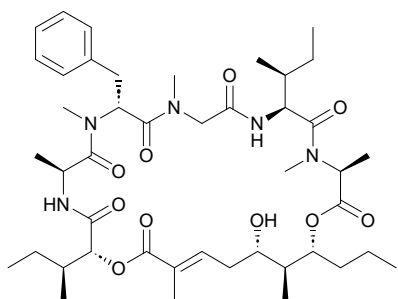
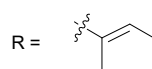


503 lagunamide A

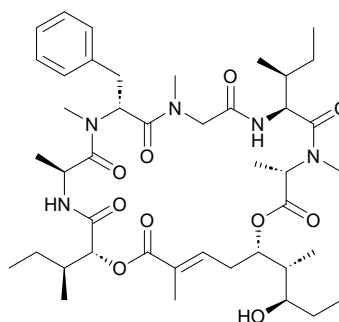


505 lagunamide C

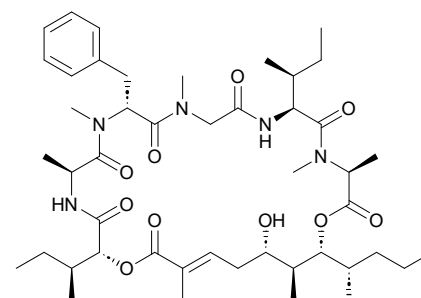
504 lagunamide B



506 lagunamide D



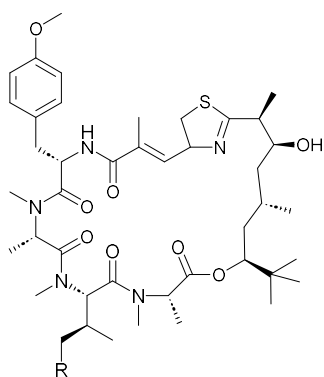
507 lagunamide D'



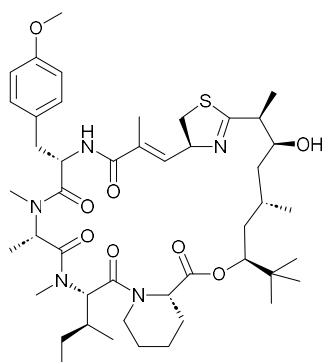
508 odoamide

Table S1. (continued)

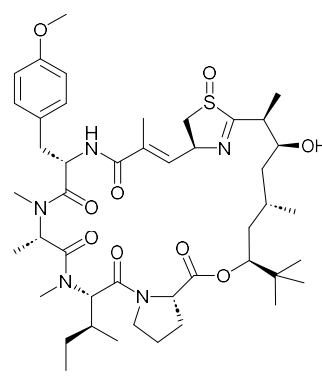
#	Compound	Habitat	Producing organism	DOI
509	apratoxin F	M	<i>Lyngbya bouillonii</i>	10.1002/cbic.201000070
510	apratoxin G	M	<i>Lyngbya bouillonii</i>	10.1002/cbic.201000070
511	apratoxin H	M	<i>Moorea producens</i>	10.1021/np4004992
512	apratoxin A sulfoxide	M	<i>Moorea producens</i>	10.1021/np4004992
513	janadolide	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.6b00171
514	norbisebromoamide	M	<i>Lyngbya</i> sp.	10.1016/j.tet.2010.11.106
515	ypaoamide B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.8b00088
516	ypaoamide C	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.8b00088

509 apratoxin F R = CH₃

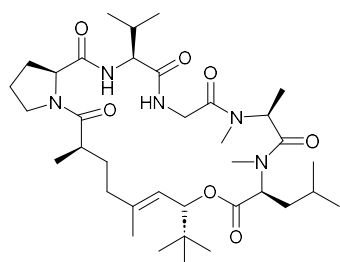
510 apratoxin G R = H



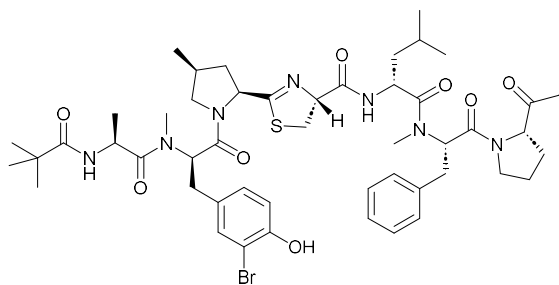
511 apratoxin H



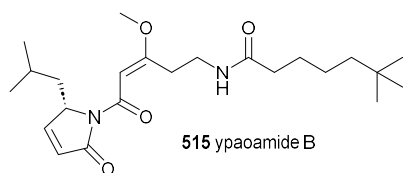
512 apratoxin A sulfoxide



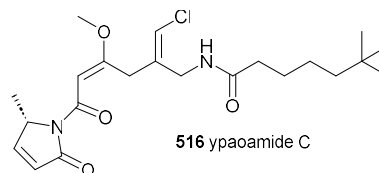
513 janadolide



514 norbisebromoamide



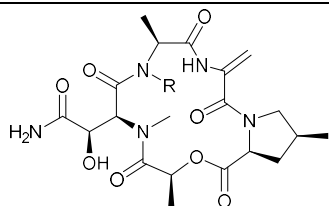
515 ypaoamide B



516 ypaoamide C

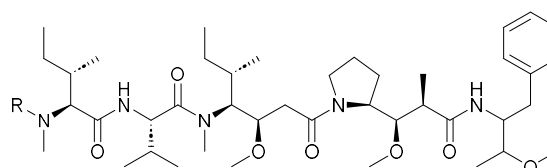
Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
517	gatorbulin-1	M	<i>Lyngbya cf. confervoides</i>	10.1073/pnas.2021847118
518	gatorbulin-2	M	<i>Lyngbya cf. confervoides</i>	10.1073/pnas.2021847118
519	aetokthonostatin	F	<i>Aetokthonos hydrillicola</i>	10.1073/pnas.2219230120
520	monomethylaetokthonostatin	F	<i>Aetokthonos hydrillicola</i>	10.1073/pnas.2219230120
521	des-Aph-aetokthonostatin	F	<i>Aetokthonos hydrillicola</i>	10.1073/pnas.2219230120
522	grassystatin D	M	<i>Leptolyngbya</i> and <i>Phormidium</i>	10.1021/acs.jnatprod.7b00551
523	grassystatin E	M	<i>Leptolyngbya</i> and <i>Phormidium</i>	10.1021/acs.jnatprod.7b00551
524	grassystatin F	M	<i>Leptolyngbya</i> and <i>Phormidium</i>	10.1021/acs.jnatprod.7b00551

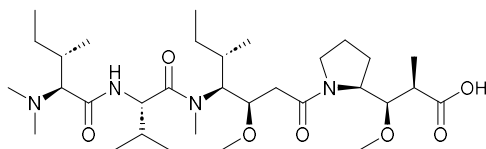


517 gatorbulin-1 R = OH

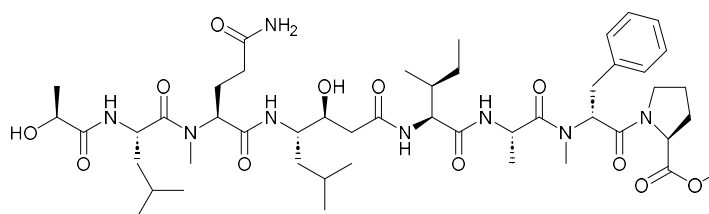
518 gatorbulin-2 R = H

519 aetokthonostatin R = CH₃

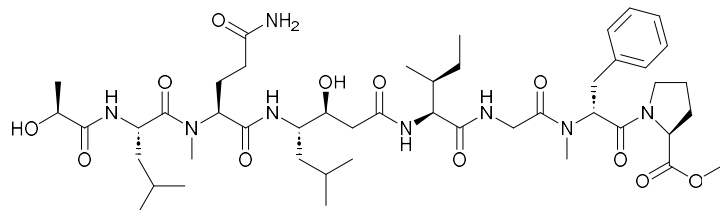
520 monomethylaetokthonostatin R = H



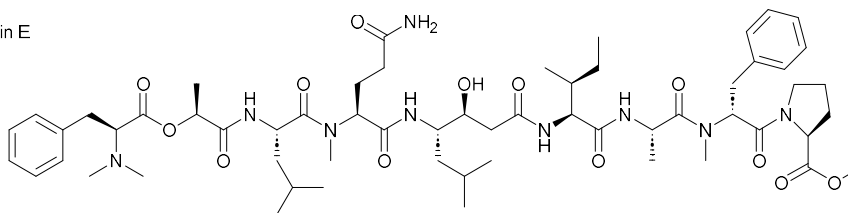
521 des-Aph-Aetokthonostatin



522 grassystatin D



523 grassystatin E



524 grassystatin F

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
525	symplocin A	M	<i>Symplococarpus</i> sp.	10.1021/np200861n
526	maedamide	M	<i>Lyngbya</i> sp.	10.1016/j.tetlet.2014.05.099
527	izenamide A	M	<i>Lyngbya</i> sp.	10.1021/acs.jnatprod.8b00417
528	izenamide B	M	<i>Lyngbya</i> sp.	10.1021/acs.jnatprod.8b00417
529	izenamide C	M	<i>Lyngbya</i> sp.	10.1021/acs.jnatprod.8b00417
530	tasiamide C	M	<i>Symplococarpus</i> sp.	10.1021/np401051z
531	tasiamide D	M	<i>Symplococarpus</i> sp.	10.1021/np401051z
532	tasiamide E	M	<i>Symplococarpus</i> sp.	10.1021/np401051z
533	tasiamide F	M	<i>Lyngbya</i> sp.	10.1016/j.bmc.2016.04.062

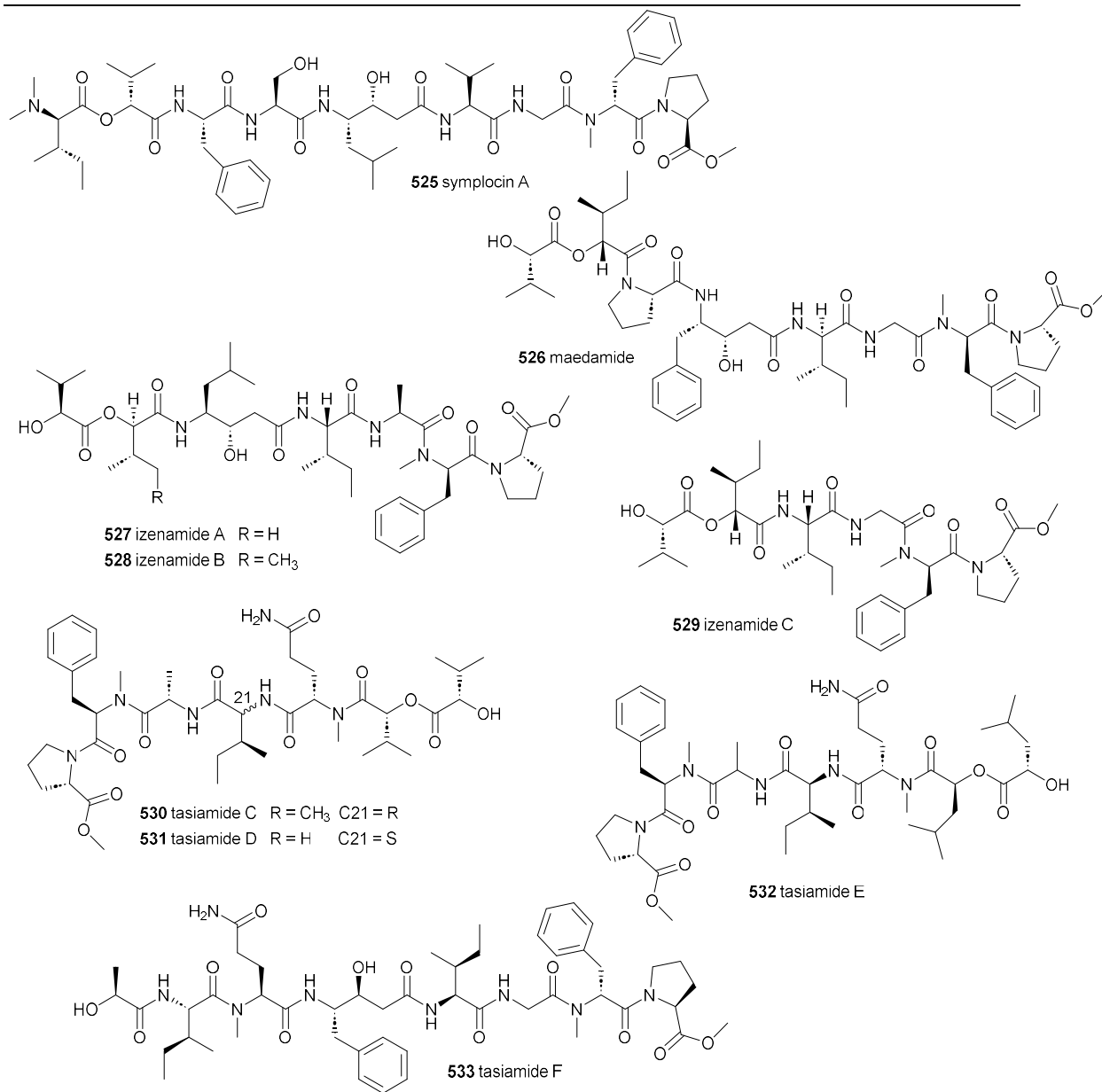


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
534	phormidepistatin	F	<i>cf. Phormidium</i> sp.	10.1021/acs.jnatprod.1c00334
535	almiramide A	M	<i>Lyngbya majuscula</i>	10.1021/jm100265s
536	almiramide B	M	<i>Lyngbya majuscula</i>	10.1021/jm100265s
537	almiramide C	M	<i>Lyngbya majuscula</i>	10.1021/jm100265s
538	almiramide D	M	<i>Oscillatoria nigroviridis</i>	10.1016/j.bmc.2014.10.039
539	almiramide E	M	<i>Oscillatoria nigroviridis</i>	10.1016/j.bmc.2014.10.039
540	almiramide F	M	<i>Oscillatoria nigroviridis</i>	10.1016/j.bmc.2014.10.039
541	almiramide G	M	<i>Oscillatoria nigroviridis</i>	10.1016/j.bmc.2014.10.039
542	almiramide H	M	<i>Oscillatoria nigroviridis</i>	10.1016/j.bmc.2014.10.039
543	dragonamide E	M	<i>Lyngbya majuscula</i>	10.1021/np900622m

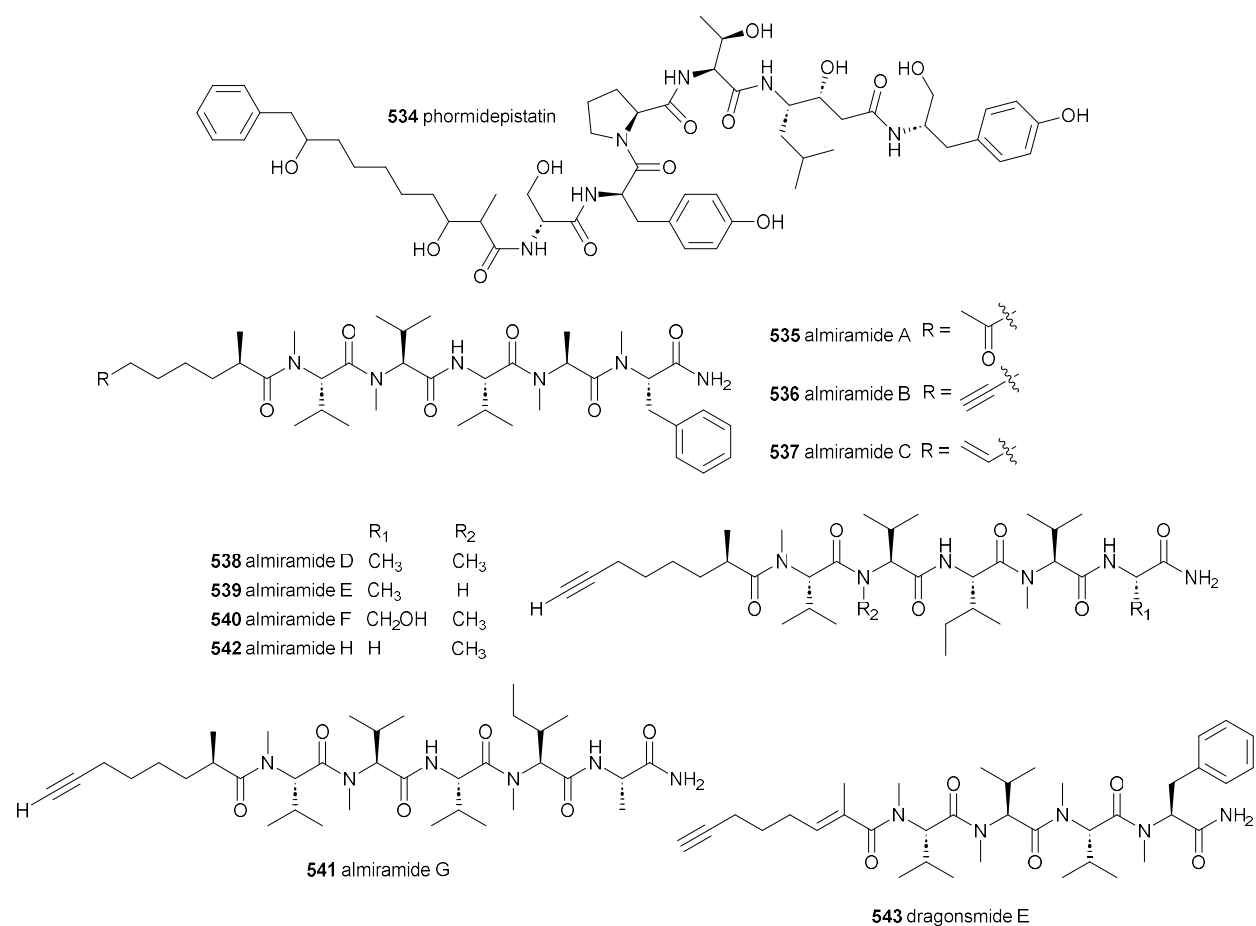


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
544	kurahyne A	M	<i>Lyngbya</i> sp.	10.1039/C4RA00132J
545	kurahyne B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.5b00662
546	jahanyne	M	<i>Lyngbya</i> sp.	10.1021/ol5036722
547	odookeanyne A	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.1c00915
548	odookeanyne B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.1c00915
549	wenchangamide A	M	cf. <i>Neolyngbya</i> sp.	10.3390/md19070397
550	minnamide A	M	<i>Okeania hirsuta</i>	10.1021/acs.orglett.9b00135

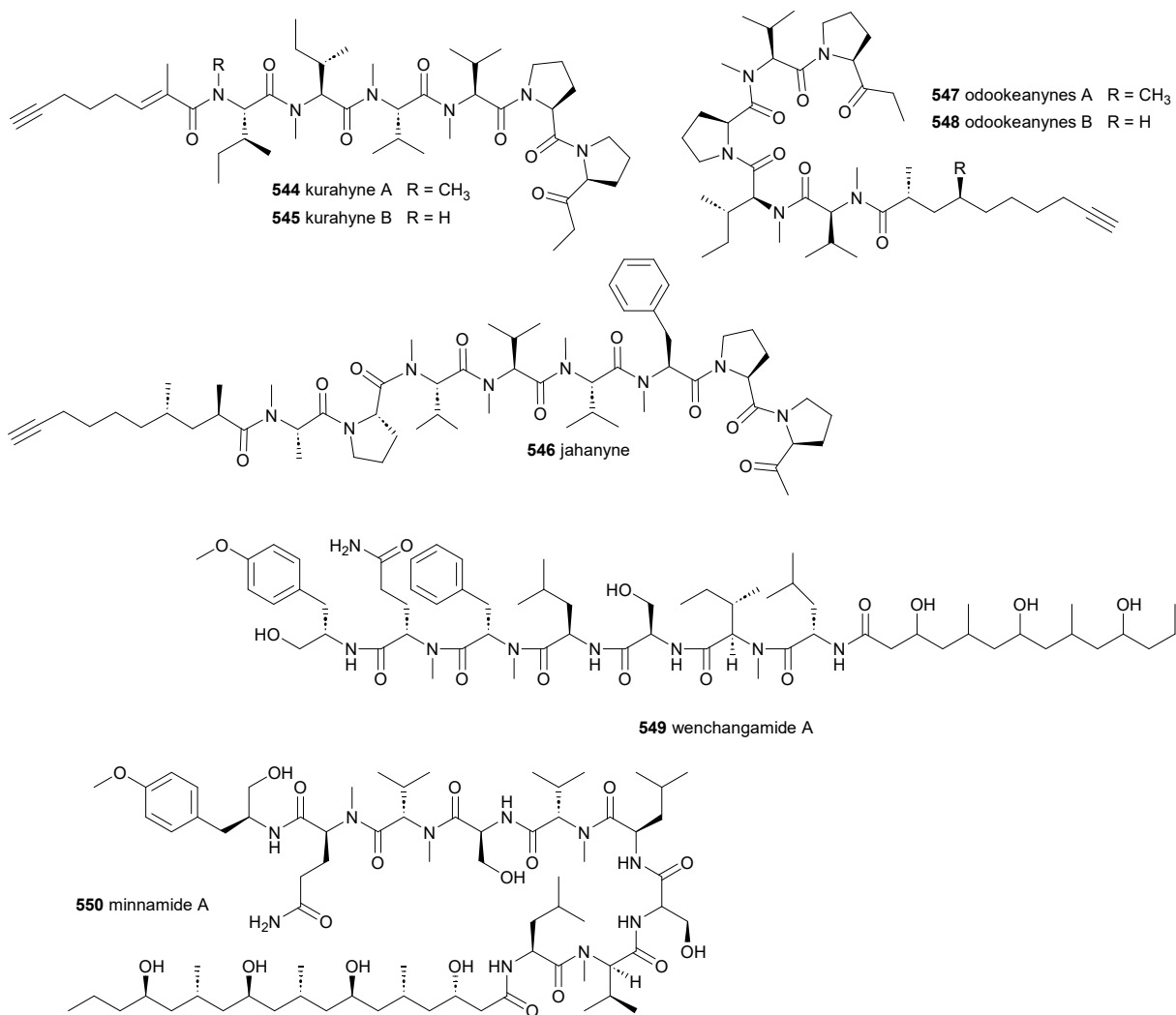


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
551	ikoamide	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.9b01147
552	microcolin E	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
553	microcolin F	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
554	microcolin G	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
555	microcolin H	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
556	microcolin I	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
557	microcolin J	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
558	microcolin K	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
559	microcolin L	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549
560	microcolin M	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.9b00549

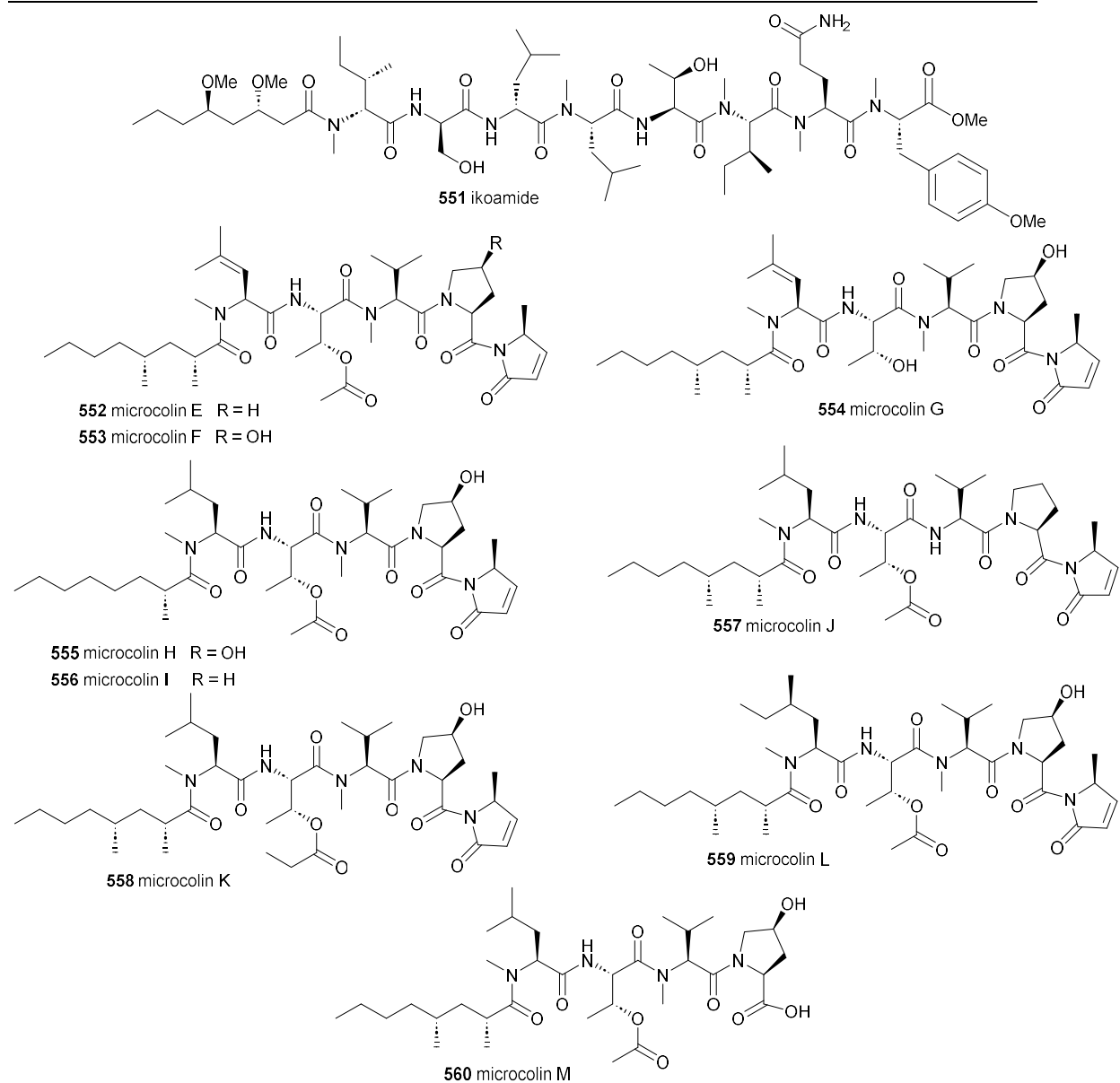


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
561	iheyamide A	M	<i>Dapis</i> sp.	10.1021/acs.jnatprod.0c00250
562	iheyamide B	M	<i>Dapis</i> sp.	10.1021/acs.jnatprod.0c00250
563	iheyamide C	M	<i>Dapis</i> sp.	10.1021/acs.jnatprod.0c00250
564*	caldoramide	M	<i>Caldora penicillata</i>	10.1021/acs.jnatprod.6b00203
565	heptavalinamide A	M	<i>Symploca</i> sp.	10.1021/acs.orglett.9b04420
566	odopenicillatamide	M	<i>Caldora penicillata</i>	10.1016/j.tet.2021.131969
567	komesuamide	M	<i>Caldora penicillata</i>	10.1016/j.tet.2021.131969

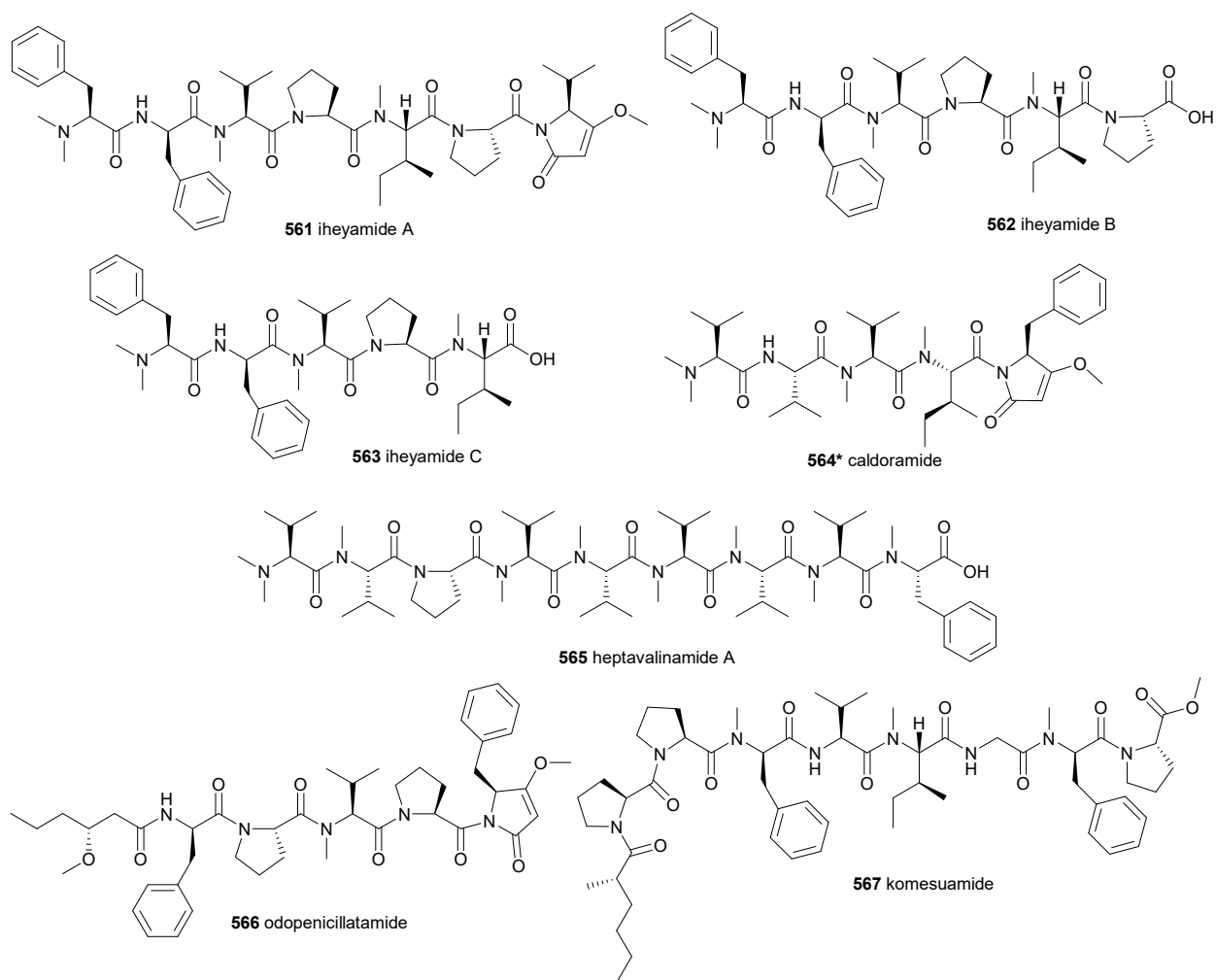
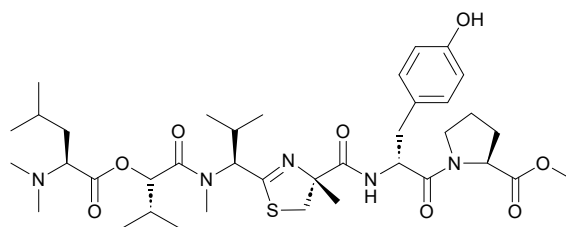
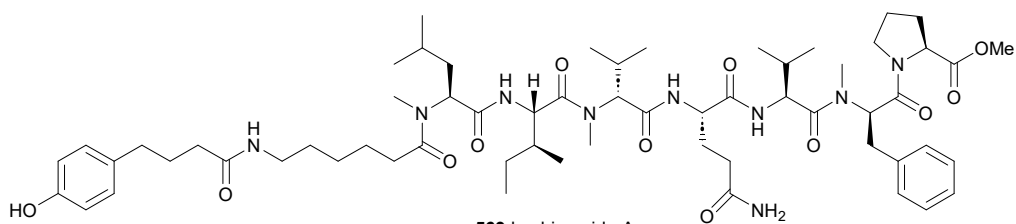


Table S1. (continued)

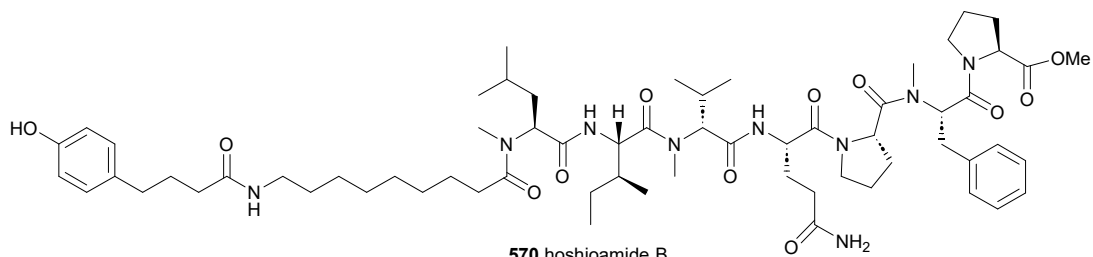
#	Compound	Habitat	Producing organism	DOI
568	kinenzoline	M	<i>Salileptolyngbya</i> sp.	10.1021/acs.joc.1c00817
569	hoshinoamide A	M	<i>Caldora penicillata</i>	10.1021/acs.jnatprod.8b00643
570	hoshinoamide B	M	<i>Caldora penicillata</i>	10.1021/acs.jnatprod.8b00643
571	hoshinoamide C	M	<i>Caldora penicillata</i>	10.1021/acs.jnatprod.0c01209



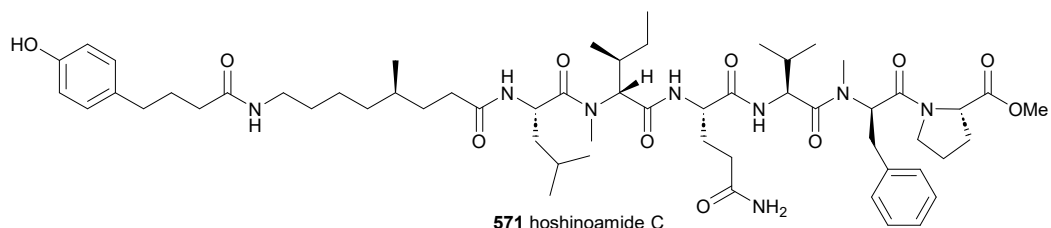
568 kinenzoline



569 hoshioamide A



570 hoshioamide B



571 hoshioamide C

Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
572	brintonamide A	M	cf. <i>Oscillatoria</i>	10.1021/acs.jmedchem.8b00885
573	brintonamide B	M	cf. <i>Oscillatoria</i>	10.1021/acs.jmedchem.8b00885
574	brintonamide C	M	cf. <i>Oscillatoria</i>	10.1021/acs.jmedchem.8b00885
575	brintonamide D	M	cf. <i>Oscillatoria</i>	10.1021/acs.jmedchem.8b00885
576	brintonamide E	M	cf. <i>Oscillatoria</i>	10.1021/acs.jmedchem.8b00885
577	amantamide A	M	<i>Okeania</i> sp.	10.1021/acs.orglett.9b00163
578	amantamide B	M	cf. <i>Oscillatoria</i>	10.1021/acs.jnatprod.1c00983

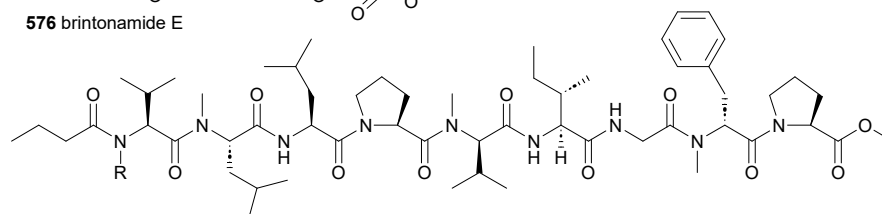
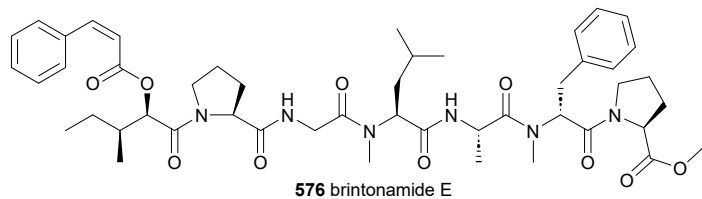
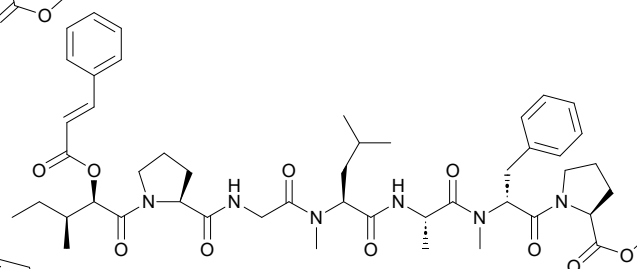
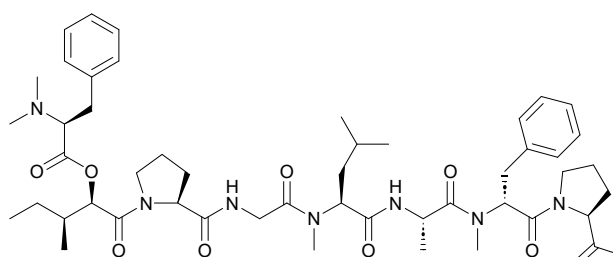
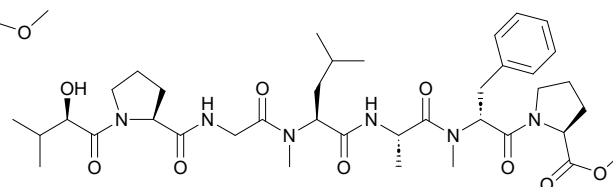
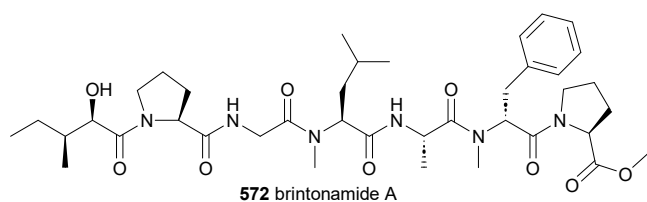


Table S1. (continued)

#	Compound	Habitat	Producing organism	DOI
579	mabuniamide	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.9b00749
580	biseokeaniamide A	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00137
581	biseokeaniamide B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00137
582	biseokeaniamide C	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00137
583	lyngbyapeptin D	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
584*	cyanochelin A	M	<i>Rivularia</i> sp.	10.1128/AEM.03128-20
585	iezoside	M	<i>Leptochromothrix valpauliae</i>	10.1021/jacs.2c04459
586	iezoside B	M	<i>Dichothrix</i> sp. and <i>Lyngbya</i> sp. (assemblage)	10.3390/md21070378

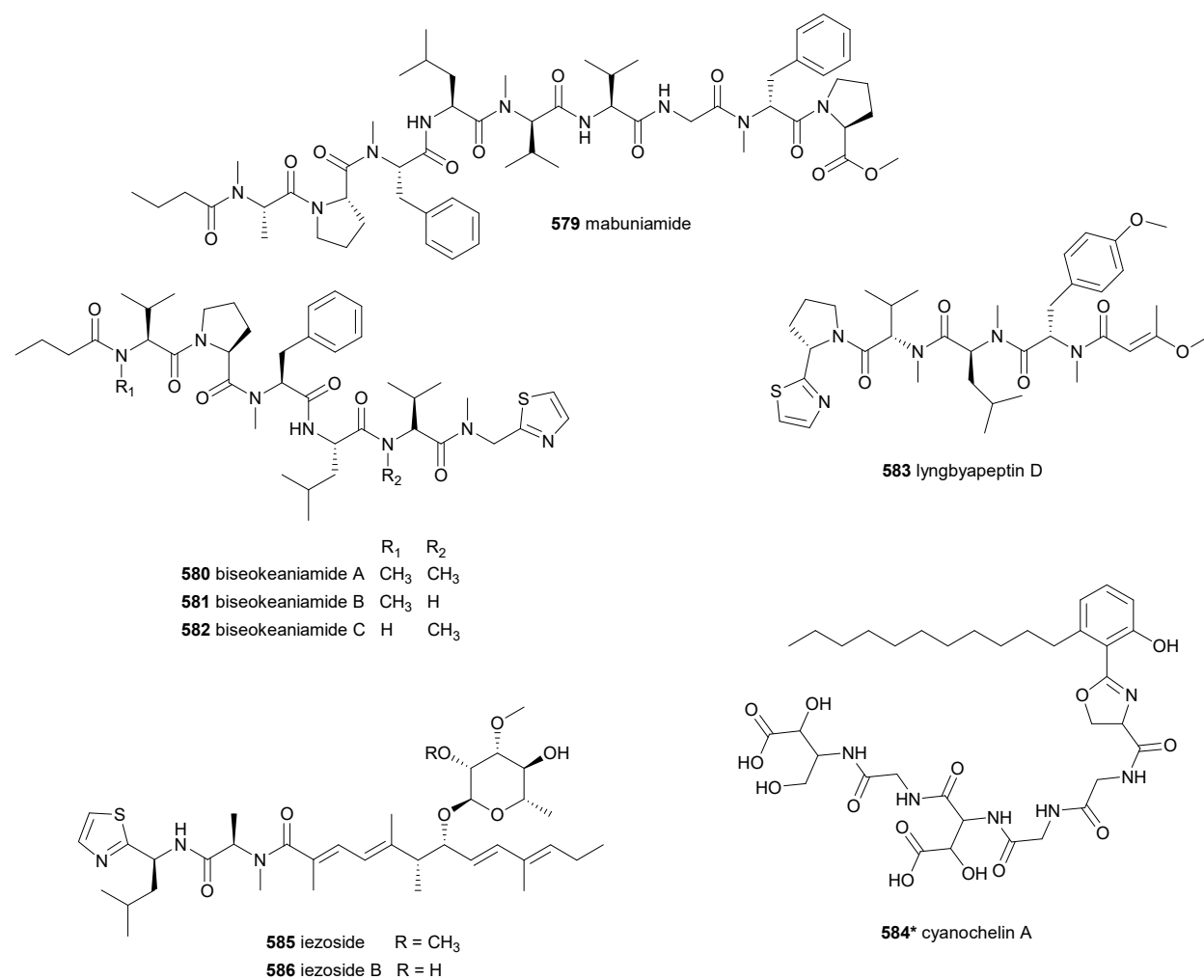
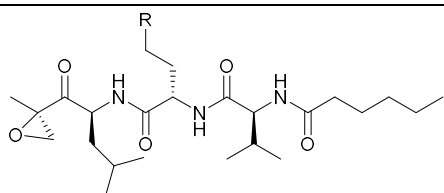
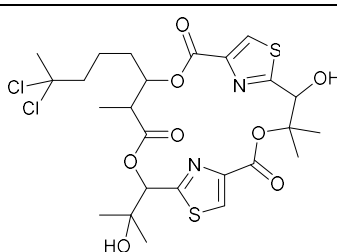


Table S1. (continued)

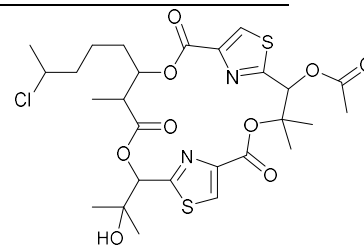
#	Compound	Habitat	Producing organism	DOI
587	carmaphycin A	M	<i>Symploca</i> sp.	10.1002/cbic.201200007
588	carmaphycin B	M	<i>Symploca</i> sp.	10.1002/cbic.201200007
589	hectochlorin B	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
590	hectochlorin C	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
591	hectochlorin D	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
592*	hectoramide	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
593*	cryptomaldamide	M	<i>Moorea producens</i>	10.1021/acs.jnatprod.7b00019
594	deoxykasumigamide	F	<i>Microcystis aeruginosa</i>	10.1002/cbic.202000409
595	nosperin	F	<i>Nostoc</i> sp.	10.1073/pnas.1305867110
596	cusperin A	F	<i>Cuspidothrix issatschenkoi</i>	10.1021/acscchembio.7b01048
597	cusperin B	F	<i>Cuspidothrix issatschenkoi</i>	10.1021/acscchembio.7b01048



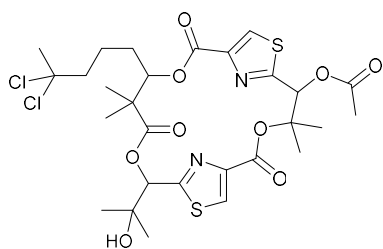
587 carmaphycin A R = SOCH₃
 588 carmaphycin B R = SO₂CH₃



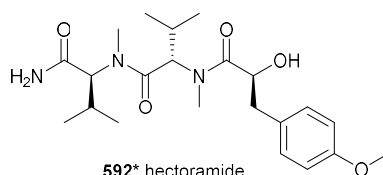
589 hectochlorin B



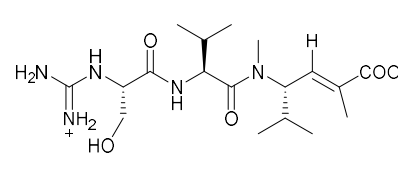
590 hectochlorin C



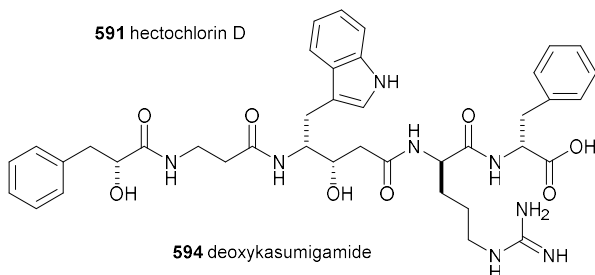
591 hectochlorin D



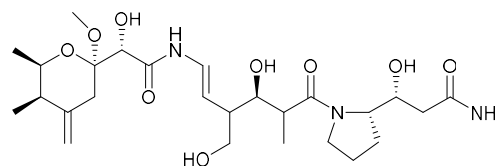
592* hectoramide



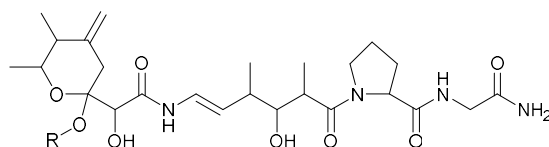
593* cryptomaldamide



594 deoxykasumigamide



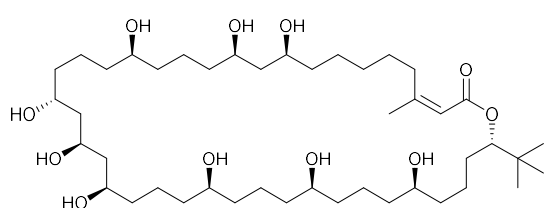
595 nosperin

596 cusperin A R = CH₃

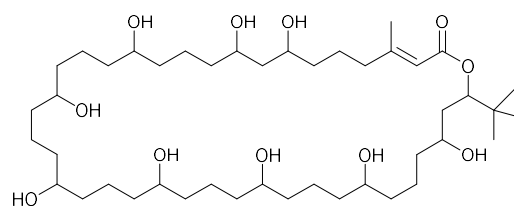
597 cusperin B R = H

Table S2. Macrolides, cyclophanes, and related compounds from cyanobacteria (2010-2023)

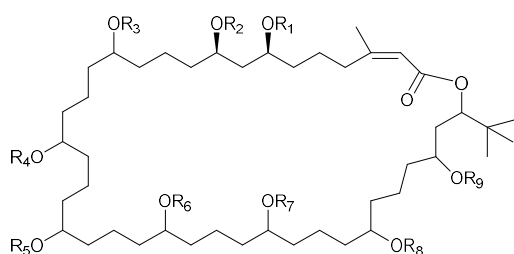
#	Compound	Habitat	Producing organism	DOI
598	bastimolide A	M	<i>Okeania hirsuta</i>	10.1021/acs.joc.5b01264
599	nuiapolide	M	n.r.	10.3390/md13106274
600	amantelide A	M	Oscillatoriiales	10.1021/acs.jnatprod.5b00293
601	amantelide B	M	Oscillatoriiales	10.1021/acs.jnatprod.5b00293
602	palstimolide A	M	<i>Leptolyngbya</i> sp.	10.3390/molecules25071604
603	bastimolide B	M	<i>Okeania hirsuta</i>	10.1021/acs.jnatprod.7b00917
604*	caylobolide B	M	<i>Phormidium</i> spp.	10.1021/np100467d



598 bastimolide A

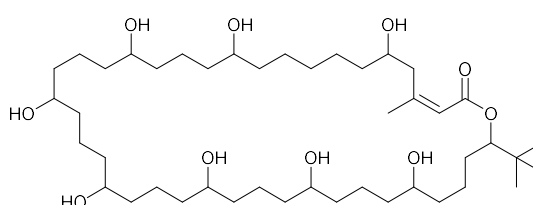


599 nuiapolide

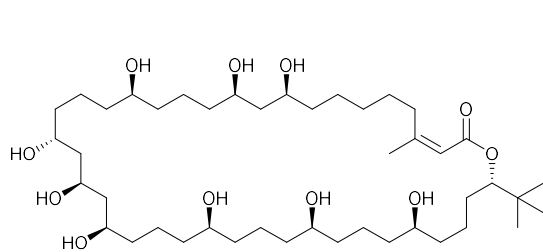
R₁-R₇ R₈ R₉

600 amantelide A H H H

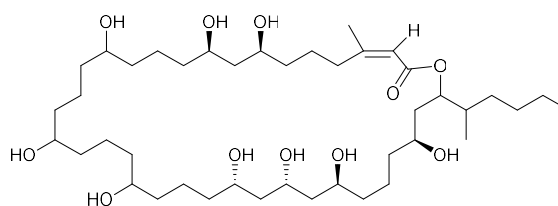
601 amantelide B H Ac H



602 palstimolide A



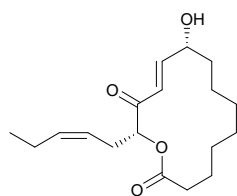
603 bastimolide A



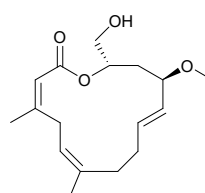
604* caylobolide B

Table S2. (continued)

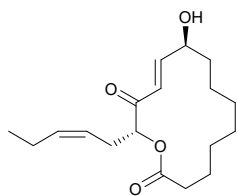
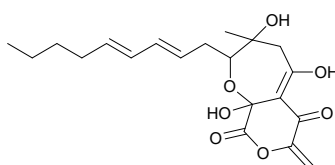
#	Compound	Habitat	Producing organism	DOI
605	sacrolide A	F	<i>Aphanothece sacrum</i>	10.3762/bjoc.10.190
606	9- <i>epi</i> -sacrolide A	F	<i>Aphanothece sacrum</i>	10.1038/ja.2017.32
607*	15,16-dihydrosacrolide A	F	<i>Aphanothece sacrum</i>	10.1038/ja.2017.32
608*	koshikalide	M	<i>Lyngbya</i> sp.	10.1016/j.tetlet.2009.12.041
609	nostovalerolactone	F	<i>Nostoc punctiforme</i>	10.1002/anie.202204545
610	9-dehydronostovalerolactone	F	<i>Nostoc punctiforme</i>	10.1002/anie.202204545
611*	nostoclide N1	F	<i>Nostoc punctiforme</i>	10.1002/anie.202204545
612*	nostoclide N2	F	<i>Nostoc punctiforme</i>	10.1002/anie.202204545



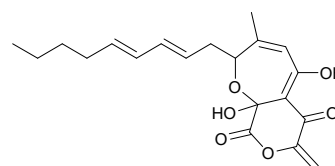
605 sacrolide A



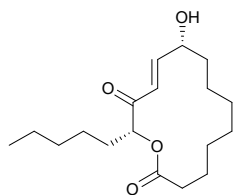
608* koshikalide

606 9-*epi*-sacrolide A

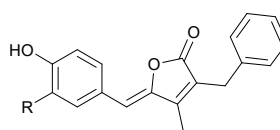
609 nostovalerolactone



610 dehydronostovalerolactone



607* 15,16-dihydrosacrolide A

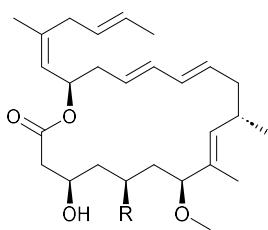


611* nostoclide N1 H

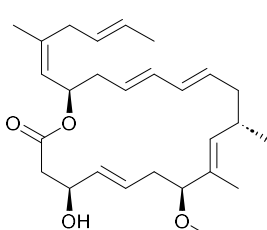
612* nostoclide N2 OMe

Table S2. (continued)

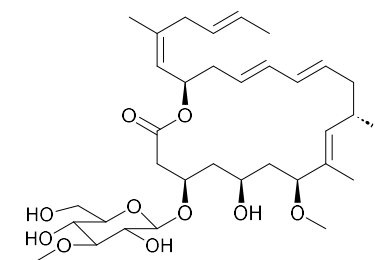
#	Compound	Habitat	Producing organism	DOI
613	biselyngbyolide A	M	<i>Lyngbya</i> sp.	10.1246/cl.2012.165
614	biselyngbyolide B	M	<i>Lyngbya</i> sp.	10.1246/cl.130960
615	biselyngbyolide C	M	<i>Lyngbya</i> sp.	10.1246/bcsj.20150117
616	biselyngbyaside B	M	<i>Lyngbya</i> sp.	10.1016/j.tet.2012.05.038
617	biselyngbyaside C	M	<i>Lyngbya</i> sp.	10.1016/j.tet.2012.05.038
618	biselyngbyaside D	M	<i>Lyngbya</i> sp.	10.1016/j.tet.2012.05.038
619	biselyngbyaside E	M	<i>Lyngbya</i> sp.	10.1246/bcsj.20150117
620	biselyngbyaside F	M	<i>Lyngbya</i> sp.	10.1246/bcsj.20150117



613 biselyngbyolide A R = OH

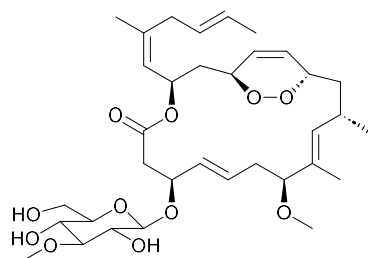


614 biselyngbyolide B

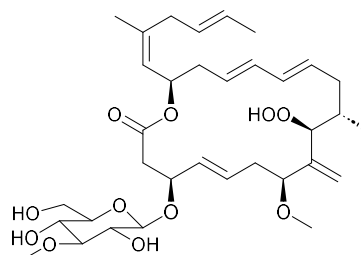


616 biselyngbyaside B

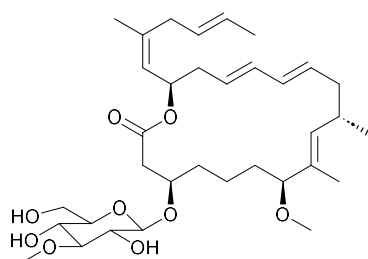
615 biselyngbyolide C R = H



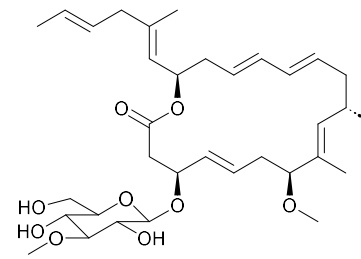
617 biselyngbyaside C



618 biselyngbyaside D



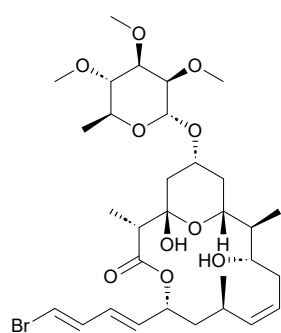
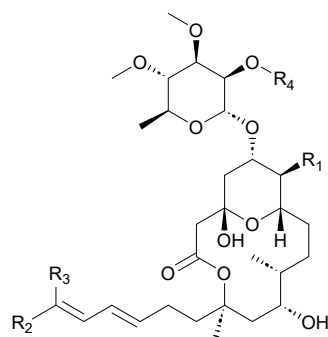
619 biselyngbyaside E



620 biselyngbyaside F

Table S2. (continued)

#	Compound	Habitat	Producing organism	DOI
621	2- <i>epi</i> -lyngbyaloside	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
622	18 <i>E</i> -lyngbyaloside C	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
623	18 <i>Z</i> -lyngbyaloside C	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
624	irijimaside A	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.0c00042
625	irijimaside B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.0c00042
626	irijimaside C	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.0c00042
627	irijimaside D	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.0c00042
628	irijimaside E	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.0c00042

621 2-*epi*-LyngbyalosideR₁ R₂ R₃ R₄622 18*E*-Lyngbyaloside C H Br H Me623 18*Z*-Lyngbyaloside C H H Br Me

	R ₁	R ₂	R ₃	R ₄
624 irijimaside A	CH=CH ₂	CH ₃	CH ₃	CH ₃
625 irijimaside B	CH=CH ₂	CH ₃	H	CH ₃
626 irijimaside C	CH=CH ₂	H	CH ₃	CH ₃
627 irijimaside D	CH=CH ₂	CH ₃	CH ₃	H
628 irijimaside E	CH ₂ CH≡CH	CH ₃	CH ₃	CH ₃

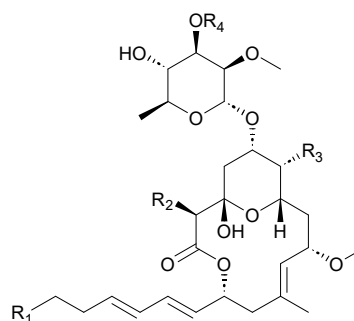
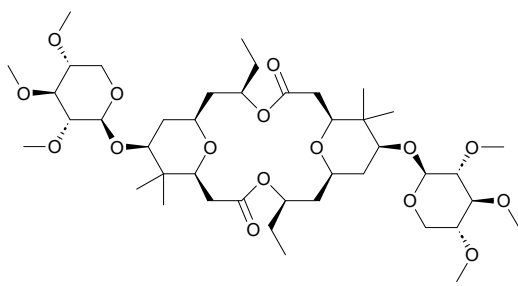
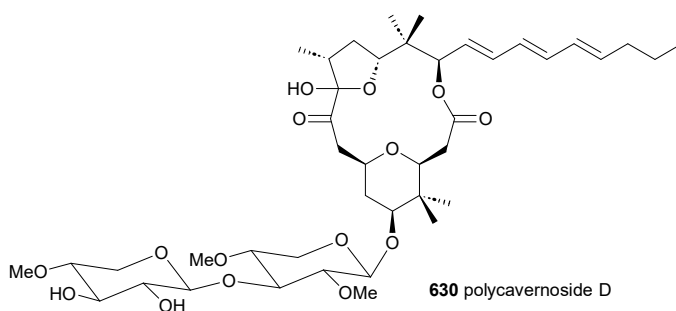


Table S2. (continued)

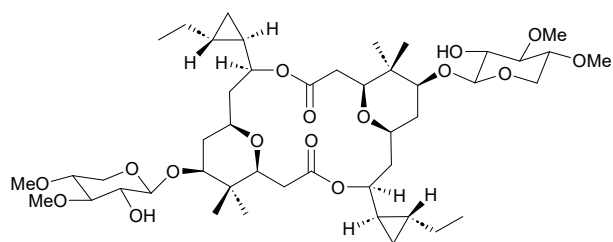
#	Compound	Habitat	Producing organism	DOI
629	cyanolide A	M	<i>Lyngbya bouillonii</i>	10.1021/np9008128
630	polycavernoside D	M	<i>Okeania</i> sp.	10.1021/acs.estlett.5b00116
631	cocosolide	M	<i>Symploca</i> sp.	10.1002/chem.201600674
632	akunolide A	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.3c00742
633	akunolide B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.3c00742
634	akunolide C	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.3c00742
635	akunolide D	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.3c00742



629 cyanolide A



630 polycavernoside D



631 cocosolide

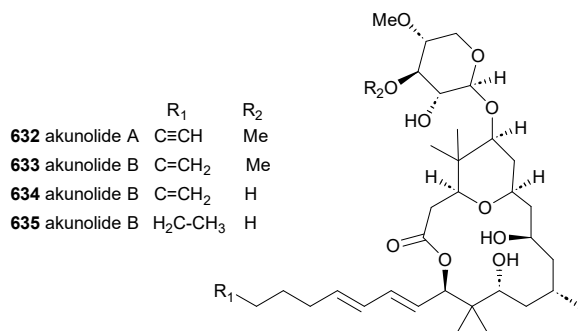
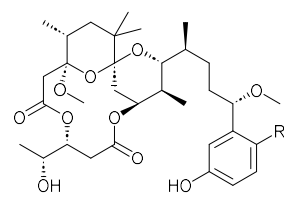
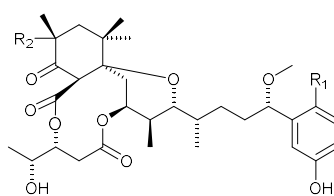


Table S2. (continued)

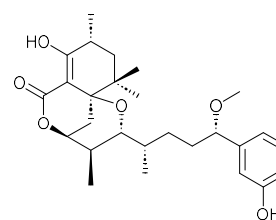
#	Compound	Habitat	Producing organism	DOI
636	3-methoxyaplysiatoxin	M	<i>Trichodesmium erythraeum</i>	10.3390/md12010115
637	3-methoxydebromoaplysiatoxin	M	<i>Trichodesmium erythraeum</i>	10.3390/md12010115
638	neo-aplysiatoxin A	M	<i>Moorea producens</i>	10.3390/molecules25030457
639	neo-debromoaplysiatoxin A	M	<i>Lyngbya</i> sp.	10.1021/acs.orglett.7b03672
640	neo-debromoaplysiatoxin B	M	<i>Lyngbya</i> sp.	10.1021/acs.orglett.7b03672
641	neo-debromoaplysiatoxin C	M	<i>Lyngbya</i> sp.	10.1080/14786419.2019.1577840
642	neo-debromoaplysiatoxin D	M	<i>Lyngbya</i> sp.	10.1039/c9ra00965e
643	neo-debromoaplysiatoxin E	M	<i>Lyngbya</i> sp.	10.3390/md17120652
644	neo-debromoaplysiatoxin F	M	<i>Lyngbya</i> sp.	10.3390/md17120652
645	neo-debromoaplysiatoxin G	M	<i>Lyngbya</i> sp.	10.3390/toxins12110733
646	neo-debromoaplysiatoxin H	M	<i>Lyngbya</i> sp.	10.3390/toxins12110733
647	neo-debromoaplysiatoxin I	M	<i>Lyngbya</i> sp.	10.3390/molecules28062786
648	neo-debromoaplysiatoxin J	M	<i>Lyngbya</i> sp.	10.3390/molecules28062786



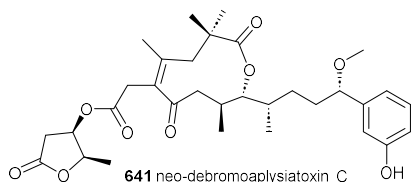
636 3-methoxyaplysiatoxin R = Br
637 3-methoxydebromoaplysiatoxin R = H



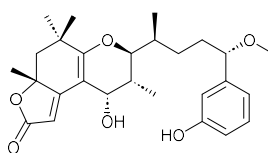
638 neo-aplysiatoxin A R₁ Br R₂ OH
639 debromoaplysiatoxin A R₁ H R₂ OH
642 neo-debromoaplysiatoxin D R₁ H R₂ H



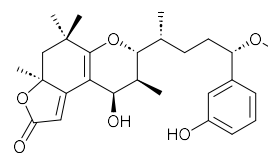
640 neo-debromoaplysiatoxin B



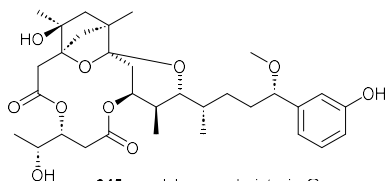
641 neo-debromoaplysiatoxin C



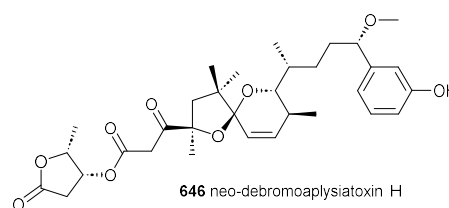
643 neo-debromoaplysiatoxin E



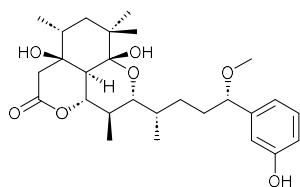
644 neo-debromoaplysiatoxin F



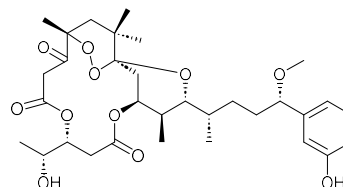
645 neo-debromoaplysiatoxin G



646 neo-debromoaplysiatoxin H



647 neo-debromoaplysiatoxin I



648 neo-debromoaplysiatoxin J

Table S2. (continued)

#	Compound	Habitat	Producing organism	DOI
649	oscillatoxin E	M	<i>Lyngbya</i> sp.	10.1039/c9ra00965e
650	oscillatoxin F	M	<i>Lyngbya</i> sp.	10.1039/c9ra00965e
651	oscillatoxin G	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
652	oscillatoxin H	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
653	oscillatoxin I	M	<i>Moorea producens</i>	10.3390/toxins11060366
654	oscillatoxin J	M	<i>Lyngbya</i> sp.	10.3390/md19110630
655	oscillatoxin K	M	<i>Lyngbya</i> sp.	10.3390/md19110630
656	oscillatoxin L	M	<i>Lyngbya</i> sp.	10.3390/md19110630
657	oscillatoxin M	M	<i>Lyngbya</i> sp.	10.3390/md19110630

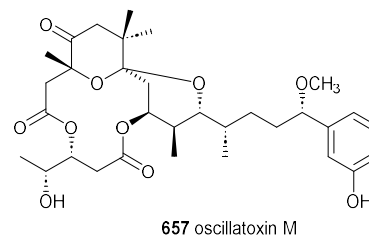
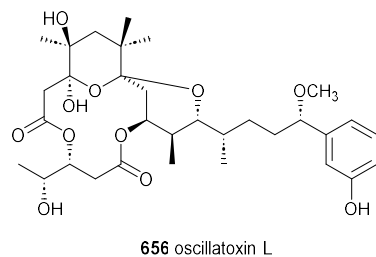
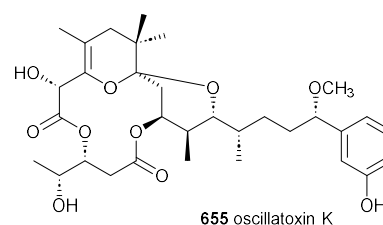
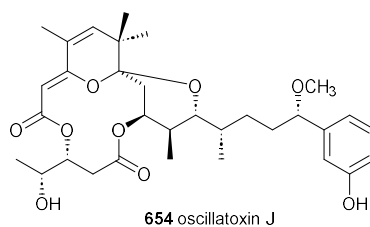
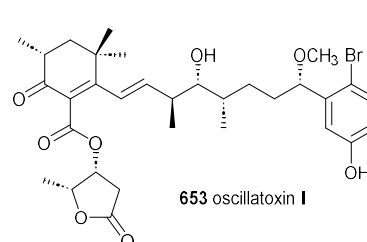
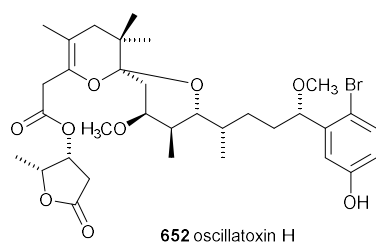
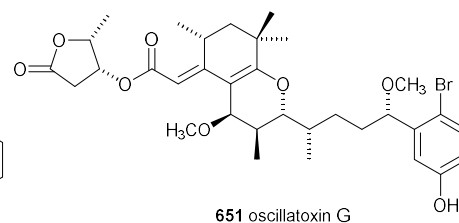
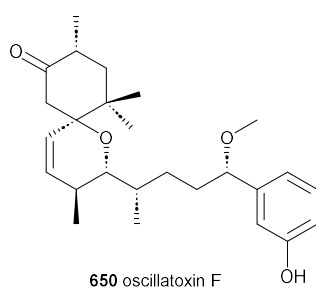
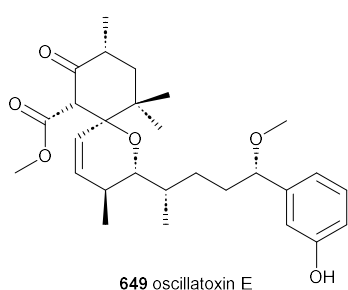
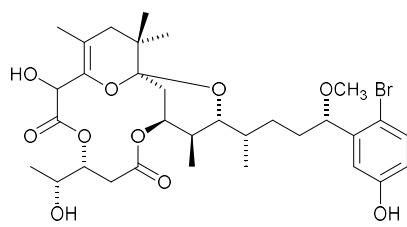
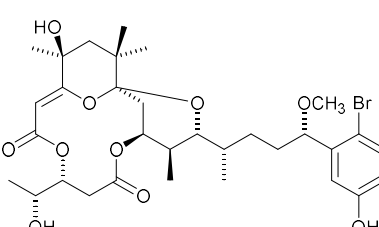


Table S2. (continued)

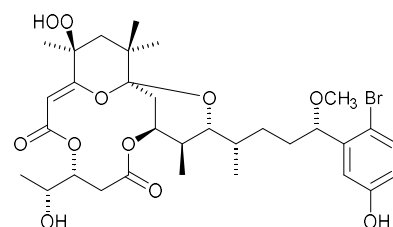
#	Compound	Habitat	Producing organism	DOI
658	2-hydroxyanhydroaplysiatoxin	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
659	17-bromooscillatoxin B2	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
660	17-bromo-4-hydroperoxyoscillatoxin B2	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
661	4-hydroperoxyoscillatoxin B2	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
662	17-bromo-4,26-epoxyoscillatoxin B2	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
663	17-bromo-30-methyloscillatoxin D	M	<i>Moorea producens</i>	10.1016/j.tet.2019.03.020
664	7- <i>epi</i> -30-methyloscillatoxin D	M	<i>Okeania hirsuta</i>	10.1177/1934578X231173799
665	nhatrangin A	M	<i>Lyngbya majuscula</i>	10.1021/np100002q
666	nhatrangin B	M	<i>Lyngbya majuscula</i>	10.1021/np100002q
667	aplysiadione	M	<i>Moorea producens</i>	10.1016/j.rechem.2021.100206
668	aplysiaenal	M	<i>Moorea producens</i>	10.1016/j.rechem.2021.100206



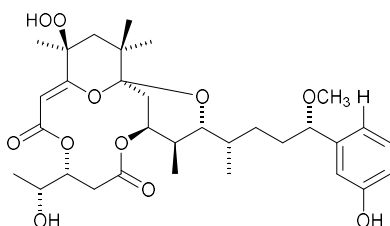
658 2-hydroxyanhydroaplysiatoxin



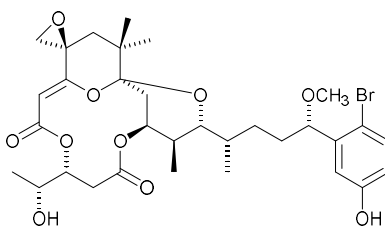
659 17-bromooscillatoxin B2



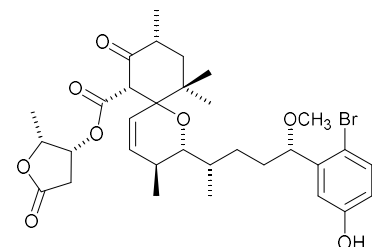
660 17-bromo-4-hydroperoxyoscillatoxin B2



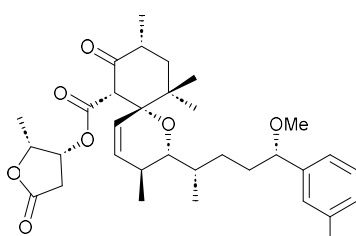
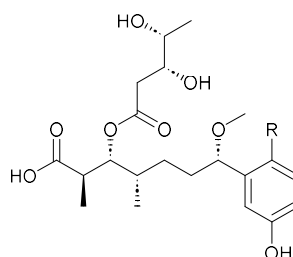
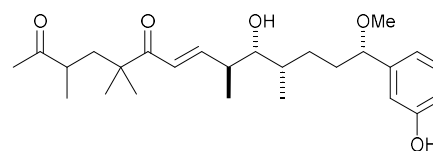
661 4-hydroperoxyoscillatoxin B2



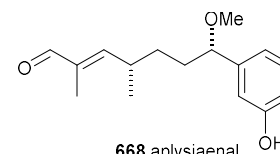
662 17-bromo-4,26-epoxyoscillatoxin B2



663 17-bromo-30-methyloscillatoxin D

664 7-*epi*-30-methyloscillatoxin D665 nhatrangin A R = H
666 nhatrangin B R = Br

667 aplysiadione



668 aplysiaenal

Table S2. (continued)

#	Compound	Habitat	Producing organism	DOI
669	luminaolide B	F	<i>Planktothrix paucivesiculata</i>	10.1038/nchembio.1870
670	7-Ome-scytopycin B	F	<i>Anabaena</i> sp.	10.3390/md13042124
671	leptolyngbyolide A	M	<i>Leptolyngbya</i> sp.	10.1002/chem.201701183
672	leptolyngbyolide B	M	<i>Leptolyngbya</i> sp.	10.1002/chem.201701183
673	leptolyngbyolide C	M	<i>Leptolyngbya</i> sp.	10.1002/chem.201701183
674	leptolyngbyolide D	M	<i>Leptolyngbya</i> sp.	10.1002/chem.201701183

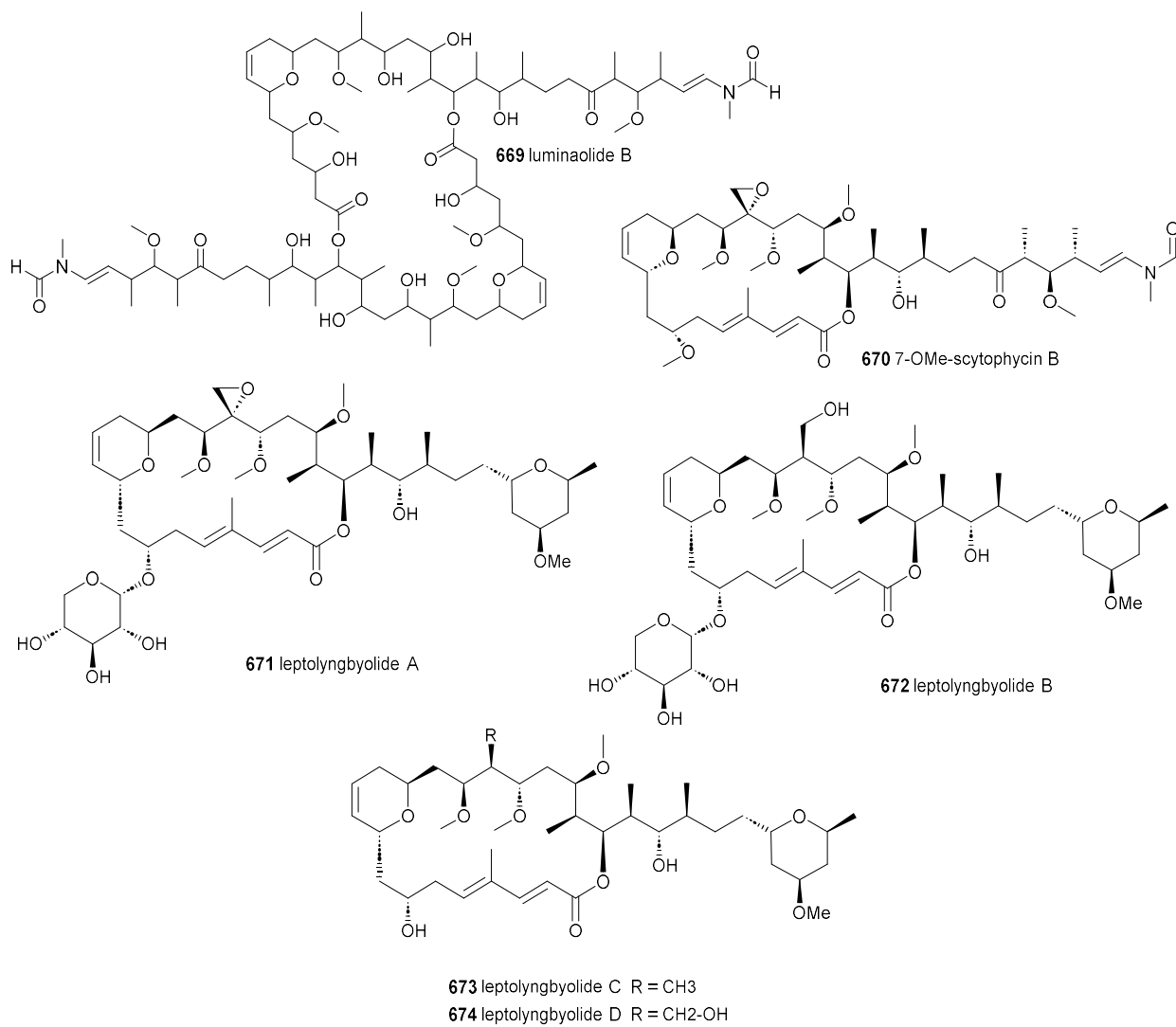


Table S2. (continued)

#	Compound	Habitat	Producing organism	DOI
675	samholide A	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
676	samholide B	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
677	samholide C	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
678	samholide D	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
679	samholide E	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
680	samholide F	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
681	samholide G	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
682	samholide H	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
683	samholide I	M	cf. <i>Phormidium</i> sp.	10.1021/acs.joc.8b00028
684	symplocolide A	M	<i>Symploca</i> sp.	10.1021/jacs.9b13786
685	laingolide B	M	<i>Lyngbya bouillonii</i>	10.1021/np1004032
686	palmyrolide A	M	cf. <i>Leptolyngbya</i> and <i>Oscillatoria</i> spp. (assemblage)	10.1021/ol101752n

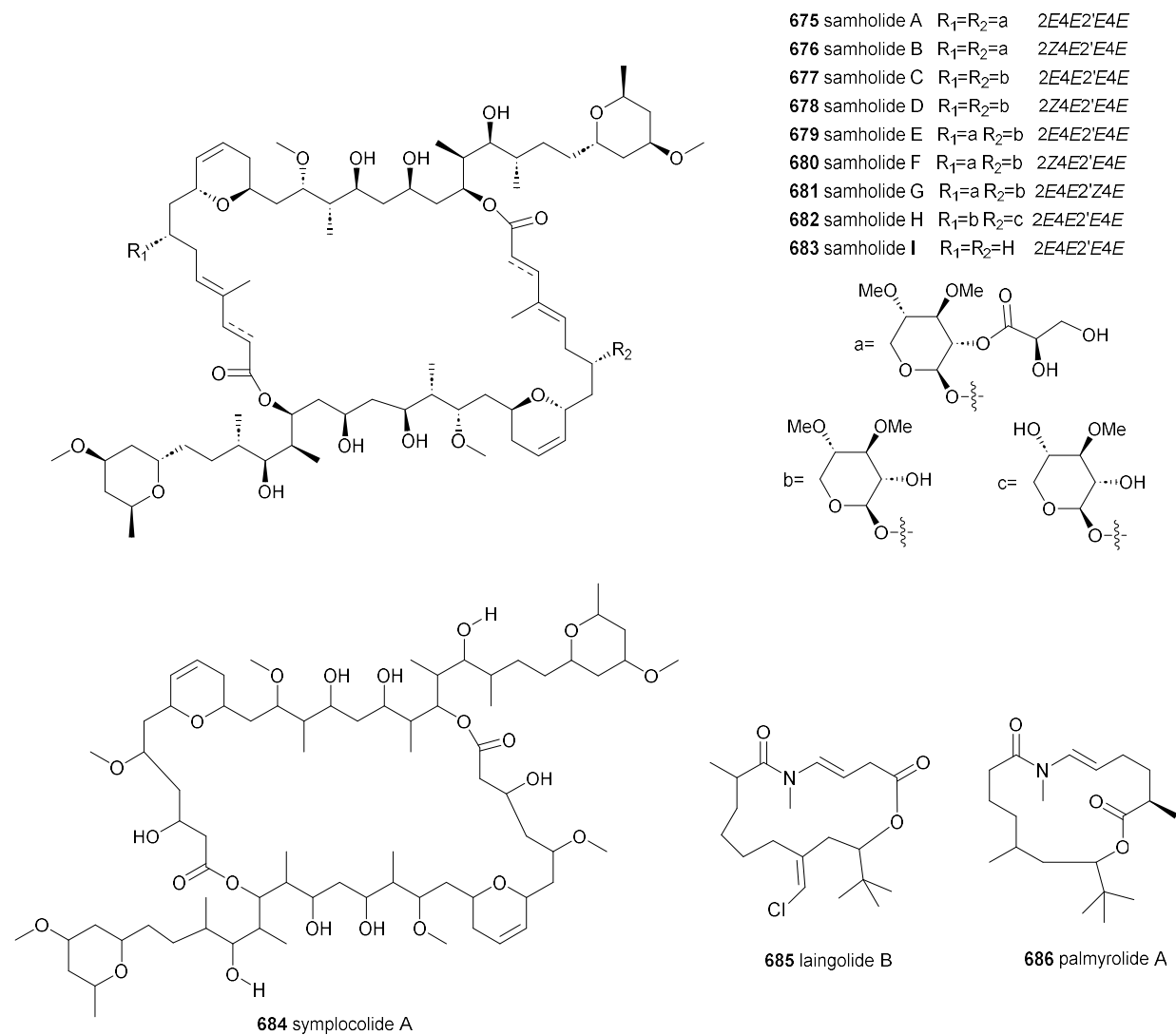
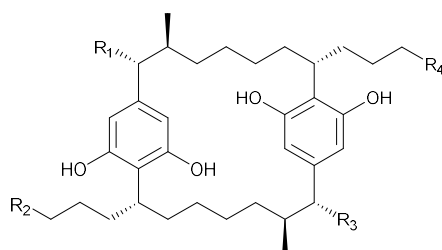
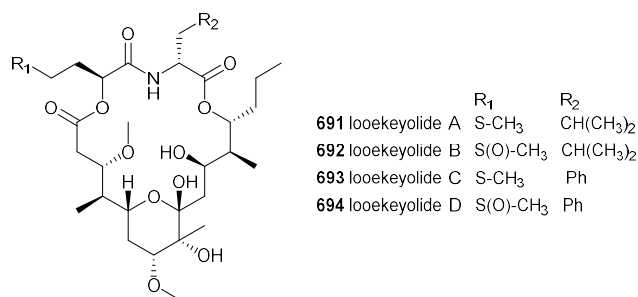
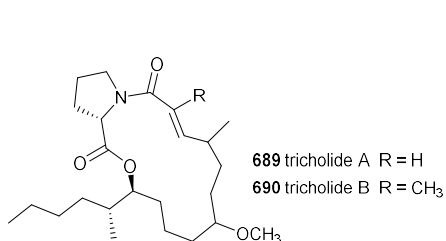
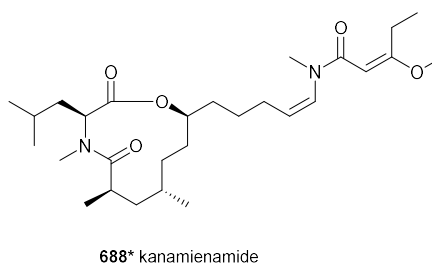
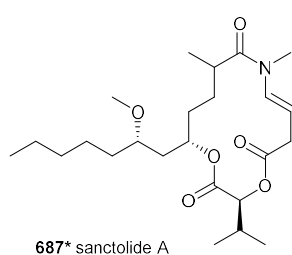


Table S2. (continued)

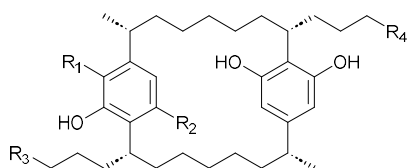
#	Compound	Habitat	Producing organism	DOI
687*	sanctolide A	F	<i>Oscillatoria sancta</i>	10.1016/j.tetlet.2012.04.136
688*	kanamienamide	M	<i>Moorea bouillonii</i>	10.1021/acs.orglett.6b02364
689	tricholide A	M	<i>Trichodesmium thiebautii</i>	10.3390/md15070206
690	tricholide B	M	<i>Trichodesmium thiebautii</i>	10.3390/md15070206
691	looekeyolide A	M	<i>Roseofilum reptotaenium</i>	10.1021/acs.jnatprod.8b00804
692	looekeyolide B	M	<i>Roseofilum reptotaenium</i>	10.1021/acs.jnatprod.8b00804
693	looekeyolide C	M	<i>Roseofilum</i> sp.	10.3390/md21020076
694	looekeyolide D	M	<i>Roseofilum</i> sp.	10.3390/md21020076
695	cylindrocyclophane A4	F	<i>Nostoc</i> sp.	10.1021/np100352e
696	cylindrocyclophane A3	F	<i>Nostoc</i> sp.	10.1021/np100352e
697	cylindrocyclophane A2	F	<i>Nostoc</i> sp.	10.1021/np100352e
698	cylindrocyclophane A1	F	<i>Nostoc</i> sp.	10.1021/np100352e
699	cylindrocyclophane C4	F	<i>Nostoc</i> sp.	10.1021/np100352e
700	cylindrocyclophane C3	F	<i>Nostoc</i> sp.	10.1021/np100352e
701	cylindrocyclophane C2	F	<i>Nostoc</i> sp.	10.1021/np100352e
702	cylindrocyclophane C1	F	<i>Nostoc</i> sp.	10.1021/np100352e
703	cylindrocyclophane F4	F	<i>Nostoc</i> sp.	10.1021/np100352e
704	cylindrocyclophane AB4	F	<i>Nostoc</i> sp.	10.1021/np100352e



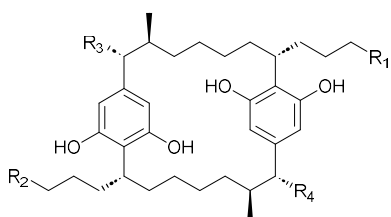
695 cylindrocyclophane A4	R ₁ = OH	R ₂ = CHCl ₂	R ₃ = OH	R ₄ = CHCl ₂
696 cylindrocyclophane A3	R ₁ = OH	R ₂ = CH ₂ Cl	R ₃ = OH	R ₄ = CHCl ₂
697 cylindrocyclophane A2	R ₁ = OH	R ₂ = CH ₃	R ₃ = OH	R ₄ = CHCl ₂
698 cylindrocyclophane A1	R ₁ = OH	R ₂ = CH ₃	R ₃ = OH	R ₄ = CH ₂ Cl
699 cylindrocyclophane C4	R ₁ = OH	R ₂ = CHCl ₂	R ₃ = H	R ₄ = CHCl ₂
700 cylindrocyclophane C3	R ₁ = OH	R ₂ = CH ₂ Cl	R ₃ = H	R ₄ = CHCl ₂
701 cylindrocyclophane C2	R ₁ = OH	R ₂ = CH ₃	R ₃ = H	R ₄ = CHCl ₂
702 cylindrocyclophane C1	R ₁ = OH	R ₂ = CH ₃	R ₃ = H	R ₄ = CH ₂ Cl
703 cylindrocyclophane F4	R ₁ = H	R ₂ = CHCl ₂	R ₃ = H	R ₄ = CHCl ₂
704 cylindrocyclophane AB4	R ₁ = OH	R ₂ = CHBr ₂	R ₃ = OH	R ₄ = CHBr ₂

Table S2. (continued)

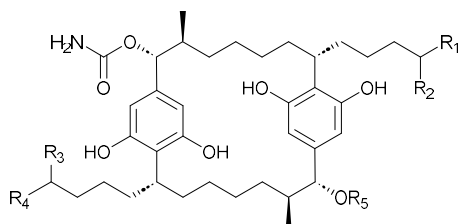
#	Compound	Habitat	Producing organism	DOI
705	merocyclophane A	F	<i>Nostoc</i> sp.	10.1016/j.phytochem.2012.03.005
706	merocyclophane B	F	<i>Nostoc</i> sp.	10.1016/j.phytochem.2012.03.005
707	merocyclophane C	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.6b01175
708	merocyclophane D	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.6b01175
709	carbamidocyclophane F	F	<i>Nostoc</i> sp.	10.1016/j.tetlet.2013.11.112
710	carbamidocyclophane G	F	<i>Nostoc</i> sp.	10.1016/j.tetlet.2013.11.112
711	carbamidocyclophane H	F	<i>Nostoc</i> sp.	10.1038/ja.2014.118
712	carbamidocyclophane I	F	<i>Nostoc</i> sp.	10.1038/ja.2014.118
713	carbamidocyclophane J	F	<i>Nostoc</i> sp.	10.1038/ja.2014.118
714	carbamidocyclophane K	F	<i>Nostoc</i> sp.	10.1038/ja.2014.118
715	carbamidocyclophane L	F	<i>Nostoc</i> sp.	10.1038/ja.2014.118
716	carbamidocyclophane M	F	<i>Nostoc</i> sp.	10.3390/md14010021
717	carbamidocyclophane N	F	<i>Nostoc</i> sp.	10.3390/md14010021
718	carbamidocyclophane O	F	<i>Nostoc</i> sp.	10.3390/md14010021
719	carbamidocyclophane P	F	<i>Nostoc</i> sp.	10.3390/md14010021
720	carbamidocyclophane Q	F	<i>Nostoc</i> sp.	10.3390/md14010021
721	carbamidocyclophane R	F	<i>Nostoc</i> sp.	10.3390/md14010021
722	carbamidocyclophane S	F	<i>Nostoc</i> sp.	10.3390/md14010021
723	carbamidocyclophane T	F	<i>Nostoc</i> sp.	10.3390/md14010021
724	carbamidocyclophane U	F	<i>Nostoc</i> sp.	10.3390/md14010021
725	carbamidocyclophane V	F	<i>Cylindrospermum stagnale</i>	10.1016/j.phytochem.2020.112529



	R ₁	R ₂	R ₃	R ₄
705 merocyclophane A	H	OH	CH ₃	CH ₃
706 merocyclophane B	O	O	CH ₃	CH ₃
707 merocyclophane C	H	OH	CH ₃	CH ₂ OH
708 merocyclophane D	H	OH	CH ₂ OH	CH ₂ OH



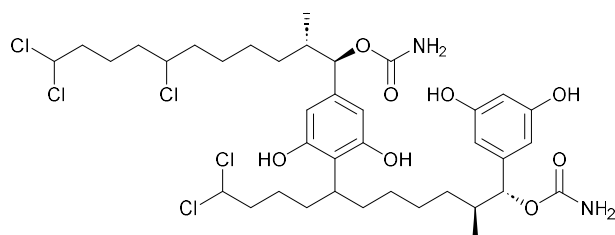
	R ₁	R ₂	R ₃	R ₄
709 carbamidocyclophane F	CHCl ₂	CHCl ₂	OH	OCONH ₂
710 carbamidocyclophane G	CHCl ₂	CHCl ₂	OCOCH ₃	OCONH ₂
711 carbamidocyclophane H	CH ₃	CH ₃	OCONH ₂	OH
712 carbamidocyclophane I	CH ₂ Cl	CH ₃	OCONH ₂	OH
713 carbamidocyclophane J	CH ₂ Cl	CH ₂ Cl	OCONH ₂	OCONH ₂
714 carbamidocyclophane K	CHCl ₂	CH ₃	OCONH ₂	OH
715 carbamidocyclophane L	CHCl ₂	CH ₂ Cl	OCONH ₂	OH



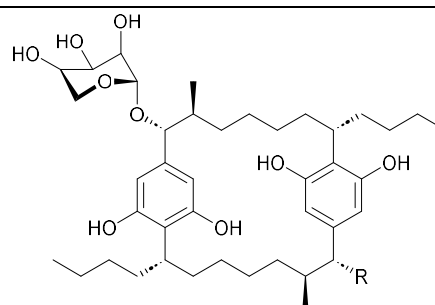
	R ₁	R ₂	R ₃	R ₄	R ₅
716 carbamidocyclophane M	Br	H	H	H	CONH ₂
717 carbamidocyclophane N	Br	H	Br	H	CONH ₂
718 carbamidocyclophane O	Br	Br	H	H	CONH ₂
719 carbamidocyclophane P	Br	Br	Br	H	CONH ₂
720 carbamidocyclophane Q	Br	Br	Br	Br	CONH ₂
721 carbamidocyclophane R	Br	H	H	H	H
722 carbamidocyclophane S	Br	Br	H	H	H
723 carbamidocyclophane T	Br	Br	Br	H	H
724 carbamidocyclophane U	Br	Br	Br	Br	H
725 carbamidocyclophane V	Cl	Cl	Cl	Cl	CONH ₂

Table S2. (continued)

#	Compound	Habitat	Producing organism	DOI
726	carbamidocylindrofridin A	F	<i>Cylindrospermum stagnale</i>	10.1016/j.phytochem.2020.112529
727	ribocyclophane A	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00954
728	ribocyclophane B	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00954
729	ribocyclophane C	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00954
730	ribocyclophane D	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00954
731	ribocyclophane E	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00954
732	nostocyclophane E	F	<i>Nostoc linckia</i>	10.3390/md21020101
733	nostocyclophane F	F	<i>Nostoc linckia</i>	10.3390/md21020101
734	nostocyclophane G	F	<i>Nostoc linckia</i>	10.3390/md21020101
735	nostocyclophane H	F	<i>Nostoc linckia</i>	10.3390/md21020101
736	nostocyclophane I	F	<i>Nostoc linckia</i>	10.3390/md21020101
737	nostocyclophane J	F	<i>Nostoc linckia</i>	10.3390/md21020101



726 carbamidocylindrofridin A

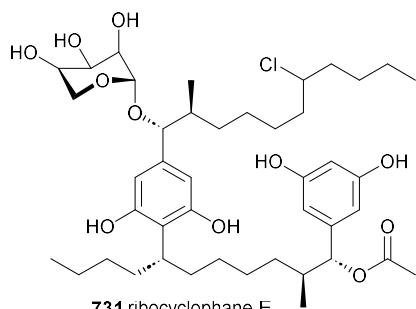


727 ribocyclophane A R = B-D-ribofuranose

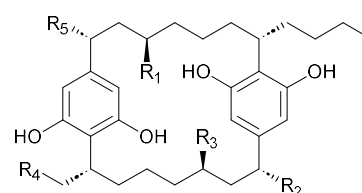
728 ribocyclophane B R = OH

729 ribocyclophane C R = H

730 ribocyclophane D R = OAc



731 ribocyclophane E

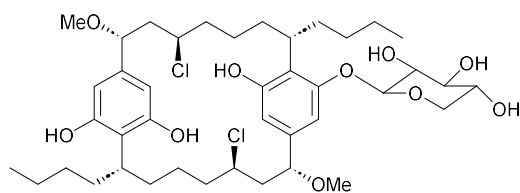
R₁ R₂ R₃ R₄ R₅

732 nostocyclophane E Cl OMe H Pr OMe

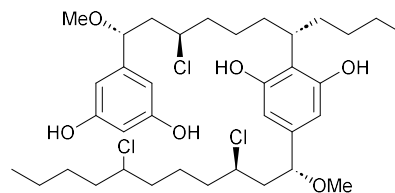
733 nostocyclophane F Cl OH H Pr OMe

734 nostocyclophane G Cl H Cl Pr OMe

735 nostocyclophane H Cl OMe Cl Me OMe



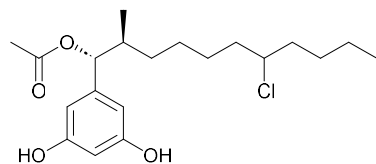
736 nostocyclophane I



737 nostocyclophane J

Table S2. (continued)

#	Compound	Habitat	Producing organism	DOI
738	cylindrofridin A	F	<i>Cylindrospermum stagnale</i>	10.1021/acs.jnatprod.5b00768
739	cylindrofridin B	F	<i>Cylindrospermum stagnale</i>	10.1021/acs.jnatprod.5b00768
740	cylindrofridin C	F	<i>Cylindrospermum stagnale</i>	10.1021/acs.jnatprod.5b00768



738 cylindrofridin A

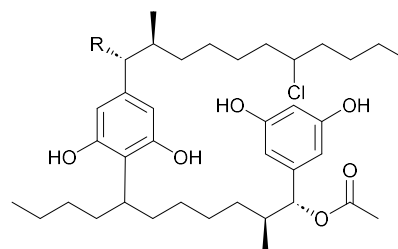
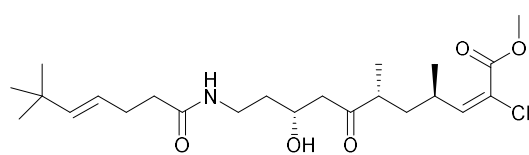
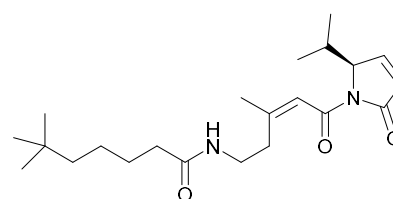
739 cylindrofridin B R = OH
740 cylindrofridin C R = OCOCH₃

Table S3. Acyl amides, fatty acid derivatives, and related compounds from cyanobacteria (2010-2023)

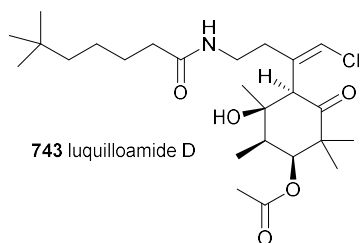
#	Compound	Habitat	Producing organism	DOI
741	luquilloamide A	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340
742	luquilloamide C	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340
743	luquilloamide D	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340
744	luquilloamide E	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340
745	luquilloamide F	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340
746	luquilloamide G	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340
747*	luquilloamide B	M	<i>Oscillatoria</i> sp.	10.1021/acs.joc.1c02340



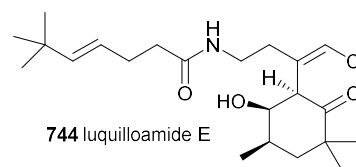
741 luquilloamide A



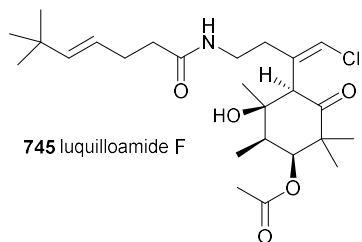
742 luquilloamide C



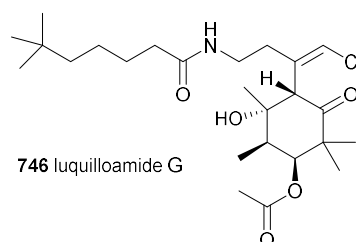
743 luquilloamide D



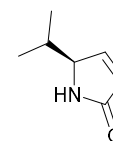
744 luquilloamide E



745 luquilloamide F



746 luquilloamide G



747* luquilloamide B

Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
748	beru'amide	M	<i>Okeania</i> sp.	10.1021/acs.orglett.2c02013
749*	palmyrrolinone	M	cf. <i>Oscillatoria</i> and <i>Hormoscilla</i> spp. (assemblage)	10.1021/np200106b
750	jamaicamide D	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
751	jamaicamide E	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
752	jamaicamide F	M	<i>Moorea producens</i>	10.1371/journal.pone.0133297
753	smenamamide C	M	<i>Trichodesmium</i> sp.	10.3389/fchem.2018.00316
754	smenamamide D	M	<i>Trichodesmium</i> sp.	10.3389/fchem.2018.00316
755	smenamamide E	M	<i>Trichodesmium</i> sp.	10.3389/fchem.2018.00316
756*	hoshinolactam	M	<i>Oscillatoria</i> sp.	10.1021/acs.orglett.7b00047

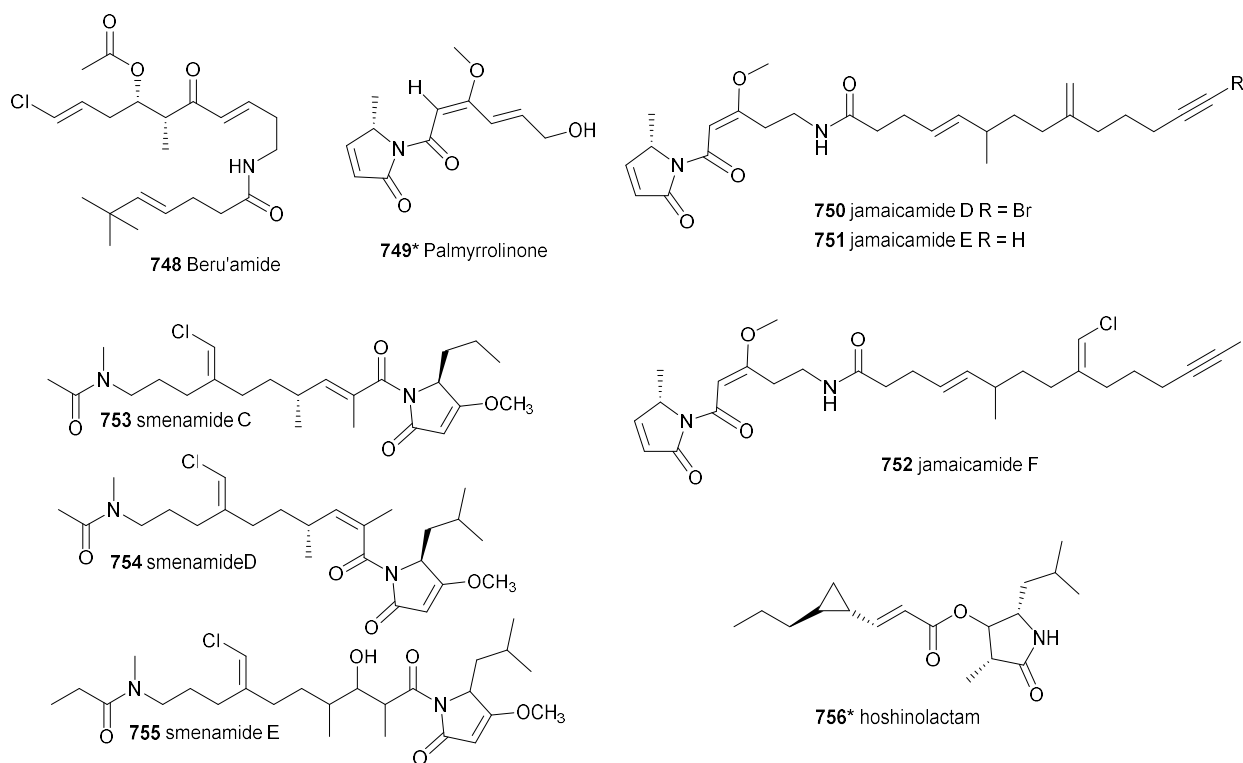


Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
757	doscadenamide A	M	<i>Moorena bouillonii</i>	10.3390/md18100515 10.1021/acs.orglett.9b02525
758	doscadenamide B	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
759	doscadenamide C	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
760	doscadenamide D	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
761	doscadenamide E	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
762	doscadenamide F	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
763	doscadenamide G	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
764	doscadenamide H	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
765	doscadenamide I	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003
766	doscadenamide J	M	<i>Moorena bouillonii</i>	10.1021/acs.jnatprod.0c01003

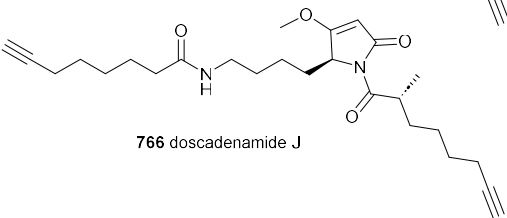
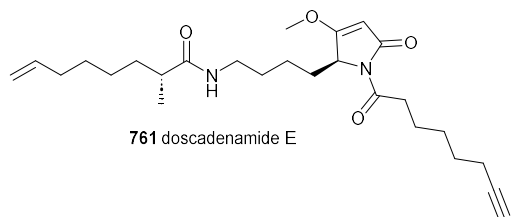
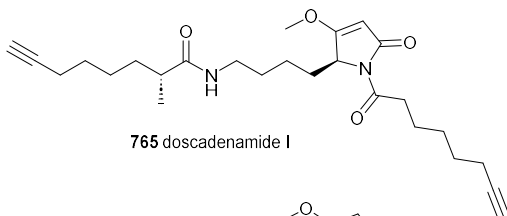
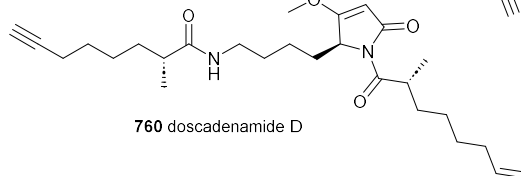
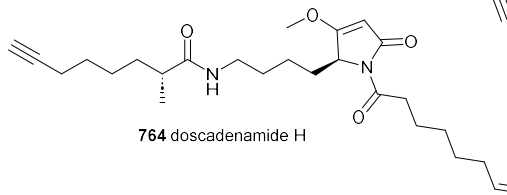
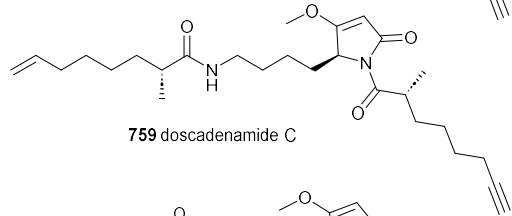
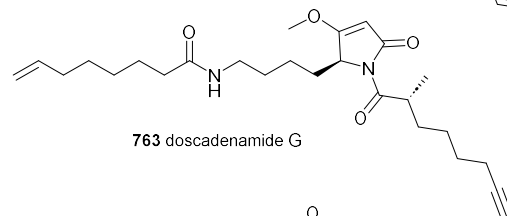
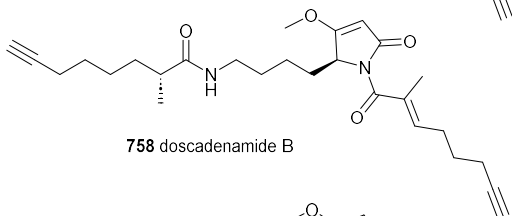
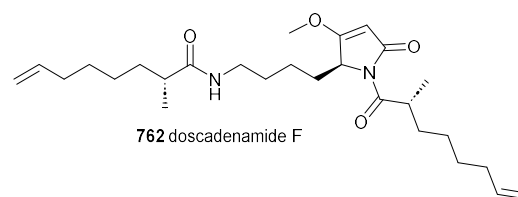
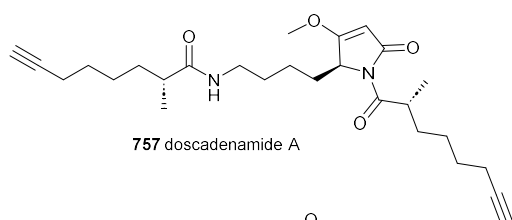


Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
767	ethyl tumonoate A	M	cf. <i>Oscillatoria margaritifera</i>	10.1021/np200236c
768	okeaniamide A	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.3c00256
769	okeaniamide B	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.3c00256
770*	laucysteinamide A	M	cf. <i>Caldora penicillata</i>	10.3390/md15040121
771*	caldorazole	M	<i>Caldora</i> sp.	10.1021/acs.orglett.2c01566
772	fischerazole A	F	<i>Fischerella</i> sp.	10.26434/chemrxiv-2022-v8zlp
773	fischerazole B	F	<i>Fischerella</i> sp.	10.26434/chemrxiv-2022-v8zlp
774	fischerazole C	F	<i>Fischerella</i> sp.	10.26434/chemrxiv-2022-v8zlp

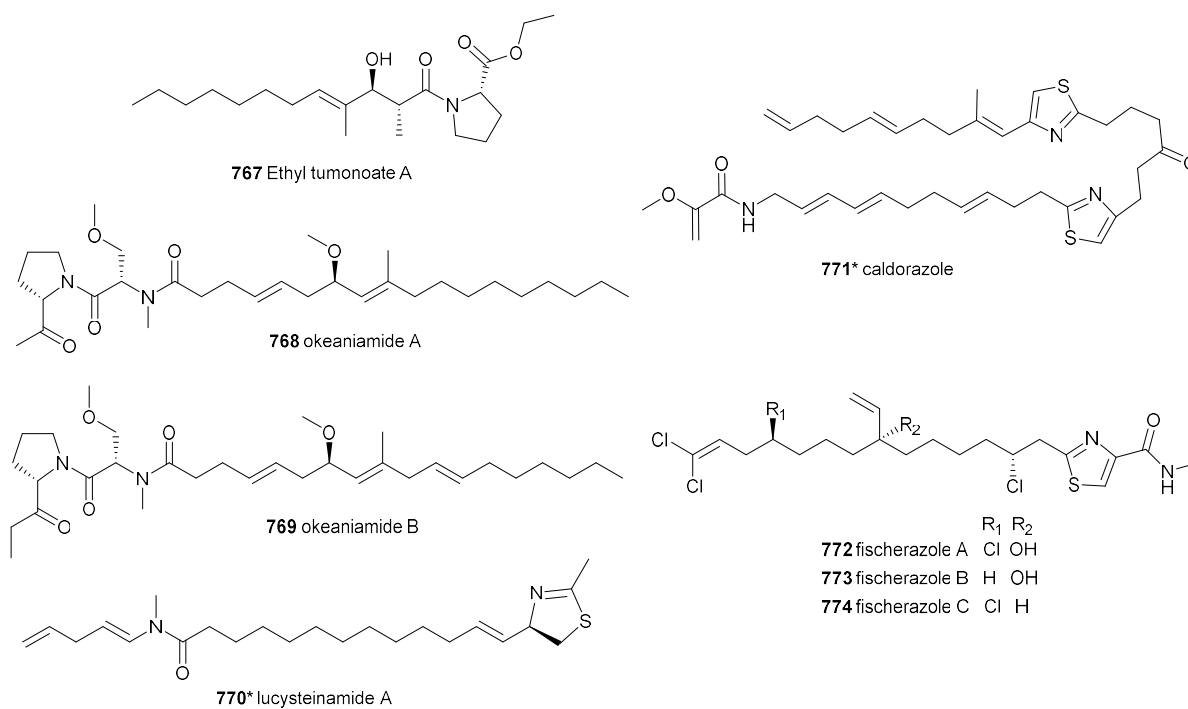
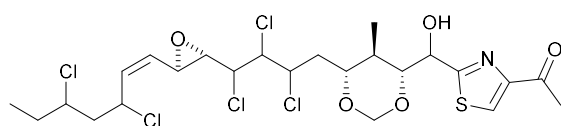
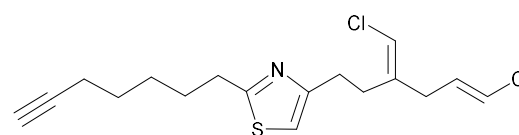


Table S3. (continued)

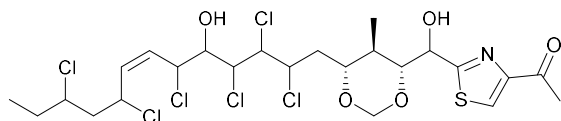
#	Compound	Habitat	Producing organism	DOI
775	aranazole A	F	<i>Fischerella</i> sp.	10.1021/acs.orglett.8b02193
776	aranazole B	F	<i>Fischerella</i> sp.	10.1021/acs.orglett.8b02193
777	aranazole C	F	<i>Fischerella</i> sp.	10.1021/acs.orglett.8b02193
778	aranazole D	F	<i>Fischerella</i> sp.	10.1021/acs.orglett.8b02193
779*	trichothiazole A	M	<i>Trichodesmium</i> sp.	10.1016/j.tetlet.2017.09.027
780	trichotoxin A	M	<i>Trichodesmium thiebautii</i>	10.1021/es201034r
781	trichotoxin B	M	<i>Trichodesmium thiebautii</i>	10.1016/j.tetlet.2016.11.062



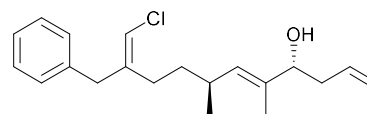
775 aranazole A



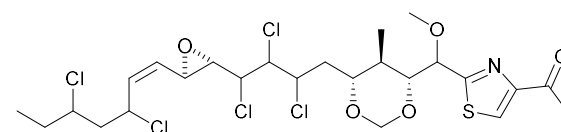
779* trichothiazole A



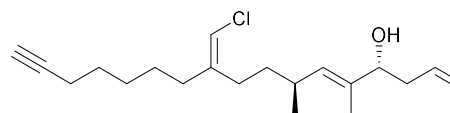
776 aranazole B



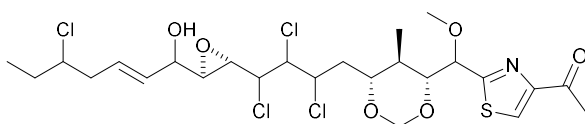
780 Trichotoxin A



777 aranazole C



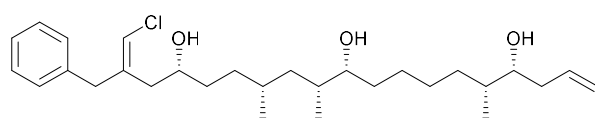
781 Trichotoxin B



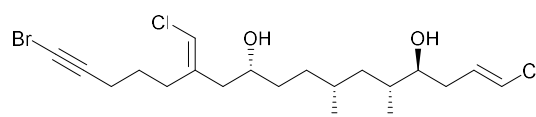
778 aranazole D

Table S3. (continued)

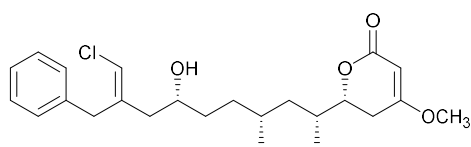
#	Compound	Habitat	Producing organism	DOI
782	trichophycin A	M	<i>Trichodesmium thiebautii</i>	10.3390/md15010010
783*	trichophycin B	M	<i>Trichodesmium</i> sp.	10.1021/acs.joc.8b02070
784	trichophycin C	M	<i>Trichodesmium</i> sp.	10.1021/acs.joc.8b02070
785	trichophycin D	M	<i>Trichodesmium</i> sp.	10.1021/acs.joc.8b02070
786	trichophycin E	M	<i>Trichodesmium</i> sp.	10.1021/acs.joc.8b02070
787*	trichophycin F	M	<i>Trichodesmium</i> sp.	10.1021/acs.joc.8b02070
788	trichophycin G	M	<i>Trichodesmium thiebautii</i>	10.1021/acs.jnatprod.0c00550
789	trichophycin H	M	<i>Trichodesmium thiebautii</i>	10.1021/acs.jnatprod.0c00550
790	trichophycin I	M	<i>Trichodesmium thiebautii</i>	10.1021/acs.jnatprod.0c00550



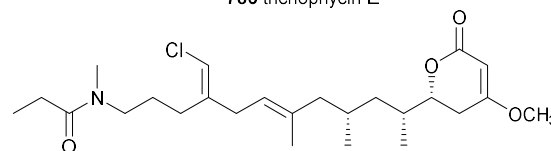
782 trichophycin A



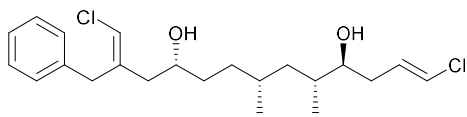
786 trichophycin E



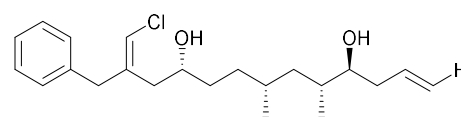
783* trichophycin B



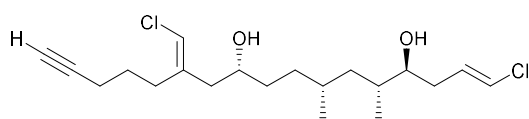
787* trichophycin F



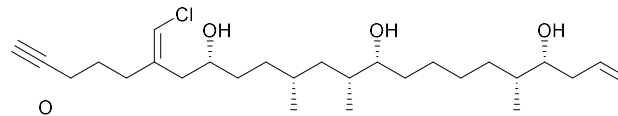
784 trichophycin C



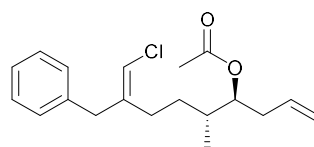
788 trichophycin G



785 trichophycin D



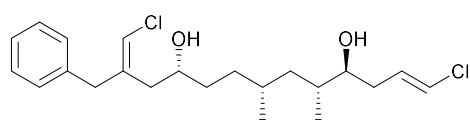
789 trichophycin H



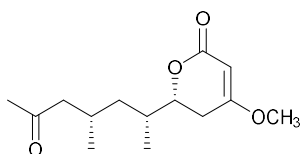
790 trichophycin I

Table S3. (continued)

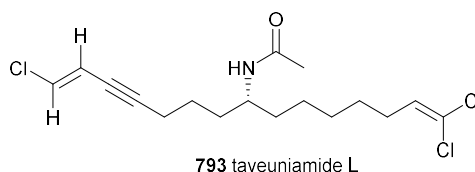
#	Compound	Habitat	Producing organism	DOI
791	isotrichophycin C	M	<i>Trichodesmium thiebautii</i>	10.1021/acs.jnatprod.0c00550
792*	tricholactone	M	<i>Trichodesmium</i> sp.	10.1021/acs.joc.8b02070
793	taveuniamide L	M	<i>Symploca</i> sp.	10.3390/md22010028
794	taveuniamide M	M	<i>Symploca</i> sp.	10.3390/md22010028
795	taveuniamide N	M	<i>Symploca</i> sp.	10.3390/md22010028



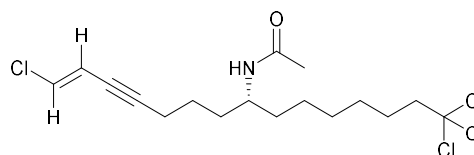
791 isotrichophycin C



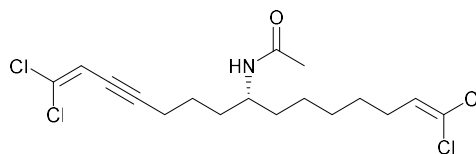
792* tricholactone



793 taveuniamide L



794 taveuniamide M



795 taveuniamide N

Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
796*	janthielamide A	M	cf. <i>Symploca</i> sp.	10.1021/jo300160e
797	kimbeamide A	M	cf. <i>Symploca</i> sp.	10.1021/jo300160e
798	kimbeamide B	M	cf. <i>Symploca</i> sp.	10.1021/jo300160e
799	kimbeamide C	M	cf. <i>Symploca</i> sp.	10.1021/jo300160e
800*	kimbelactone A	M	cf. <i>Symploca</i> sp.	10.1021/jo300160e
801	coibacin A	M	cf. <i>Oscillatoria</i> sp.	10.1021/jo402339y
802	coibacin B	M	cf. <i>Oscillatoria</i> sp.	10.1021/jo402339y
803	coibacin C	M	cf. <i>Oscillatoria</i> sp.	10.1021/jo402339y
804	coibacin D	M	cf. <i>Oscillatoria</i> sp.	10.1021/jo402339y

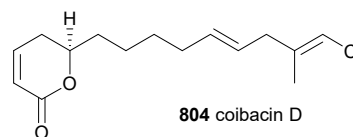
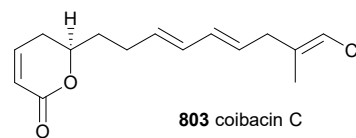
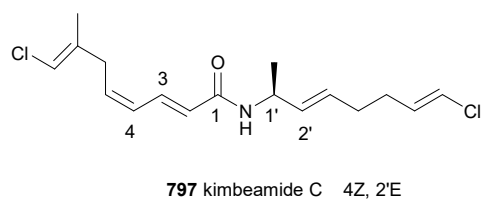
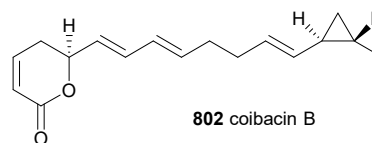
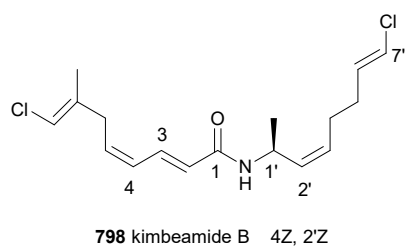
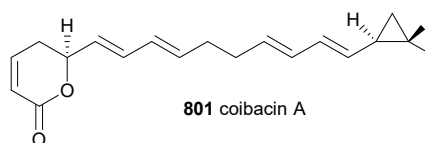
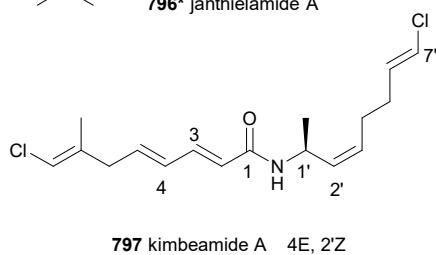
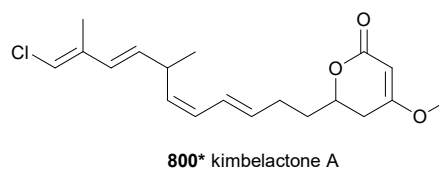
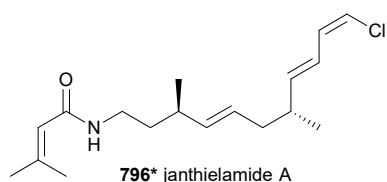
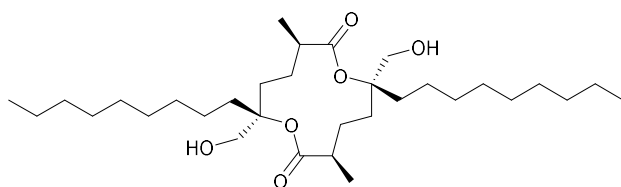
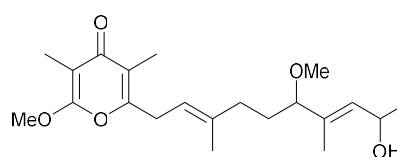


Table S3. (continued)

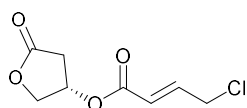
#	Compound	Habitat	Producing organism	DOI
805*	malyngolide dimer	M	<i>Lyngbya majuscula</i>	10.1021/np9005184
806*	honaucin A	M	<i>Leptolyngbya crossbyana</i>	10.1016/j.chembiol.2012.03.014
807	honaucin B	M	<i>Leptolyngbya crossbyana</i>	10.1016/j.chembiol.2012.03.014
808	honaucin C	M	<i>Leptolyngbya crossbyana</i>	10.1016/j.chembiol.2012.03.014
809	yoshinone A	M	<i>Leptolyngbya</i> sp.	10.1016/j.tetlet.2014.10.032
810	yoshinone B1	M	<i>Leptolyngbya</i> sp.	10.1016/j.tetlet.2014.10.032
811	yoshinone B2	M	<i>Leptolyngbya</i> sp.	10.1016/j.tetlet.2014.10.032
812	kalkipyronone B	M	<i>Leptolyngbya</i> sp.	10.1016/j.phytochem.2015.11.011



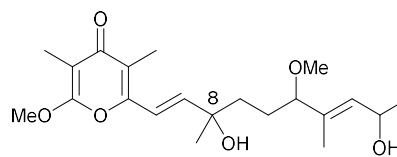
805* malyngolide dimer



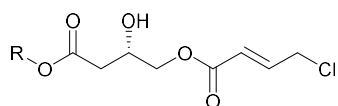
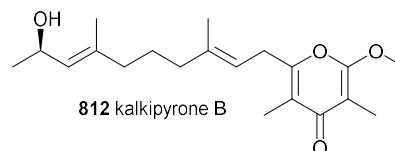
809 yoshinone A



806* honaucin A



810 yoshinone B1 811 yoshinone B2 (diastereomers in 8)

807 honaucin B R = CH₂CH₃808 honaucin C R = CH₃

812 kalkipyronone B

Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
813	8- <i>epi</i> -malyngamide C	M	<i>Lyngbya majuscula</i>	10.1021/np900614n
814	8-O-acetyl-8- <i>epi</i> -malyngamide C	M	<i>Lyngbya majuscula</i>	10.1016/j.phytochem.2010.07.001
815	malyngamide 2	M	cf. <i>Lyngbya sordida</i>	10.1021/np1005407
816	malyngamide 3	M	<i>Lyngbya majuscula</i>	10.1021/np1008015
817	isomalyngamide K	M	<i>Lyngbya majuscula</i>	10.1016/j.molstruc.2011.01.012
818	isomalyngamide A-1	M	<i>Lyngbya majuscula</i>	10.1016/j.ejmech.2011.05.049
819	malyngamide 4	M	<i>Moorea producens</i>	10.1016/j.phytol.2013.01.002
820	malyngamide Y	M	<i>Moorea producens</i>	10.1080/14786419.2016.1207074

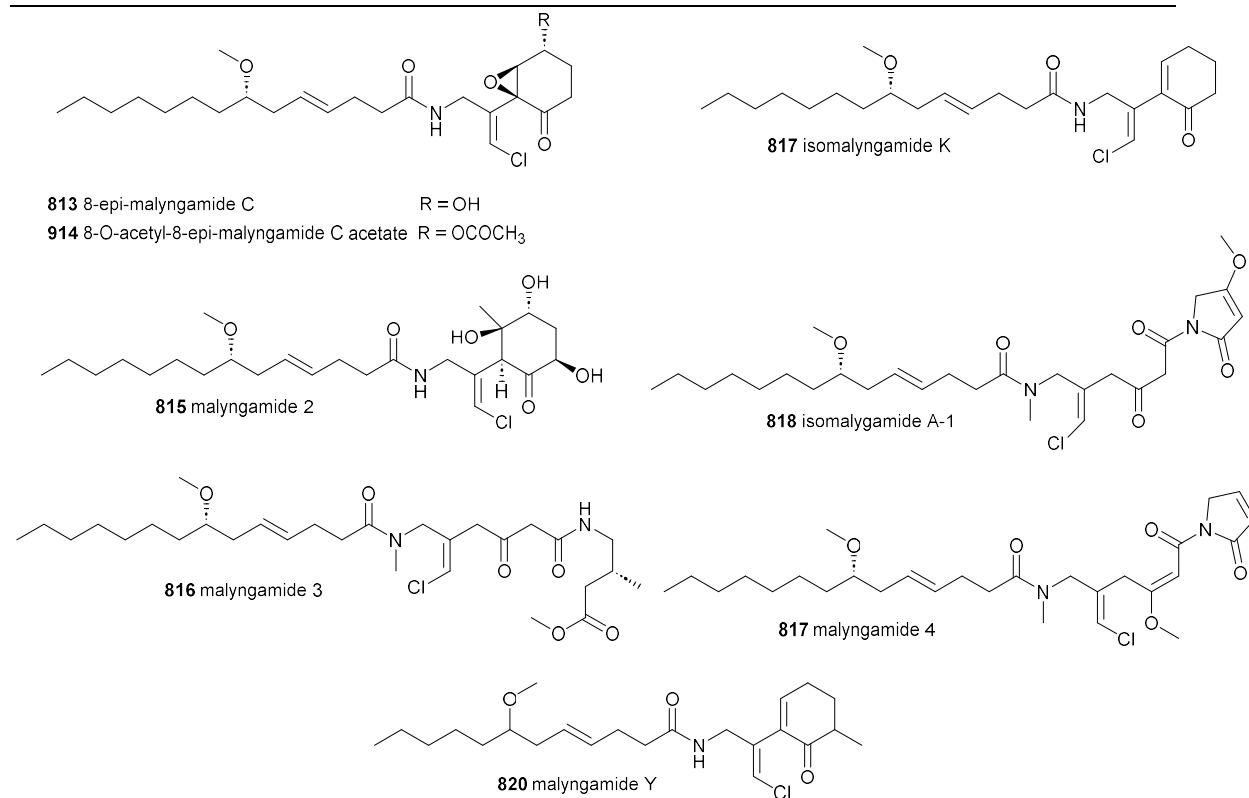


Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
821	6,8-di-O-acetylmalyngamide 2	M	<i>Moorea producens</i>	10.3390/md15120367
822	6-O-acetylmalyngamide 2	M	<i>Moorea producens</i>	10.3390/md15120367
823	<i>N</i> -demethyl-isomalyngamide I	M	<i>Moorea producens</i>	10.3390/md15120367
824	credneramide A	M	cf. <i>Trichodesmium</i> sp.	10.1021/np200611f
825	credneramide B	M	cf. <i>Trichodesmium</i> sp.	10.1021/np200611f
826	1 <i>E</i> -pitiamide B	M	<i>Hydrocoleum majus</i>	10.1055/s-0042-105157
827	1 <i>Z</i> -pitiamide B	M	<i>Hydrocoleum majus</i>	10.1055/s-0042-105157
828	caracolamide A	M	<i>Symploca</i> sp.	10.1021/acs.jnatprod.7b00367
829	santacruzamate A	M	cf. <i>Symploca</i> sp.	10.1021/np400198r

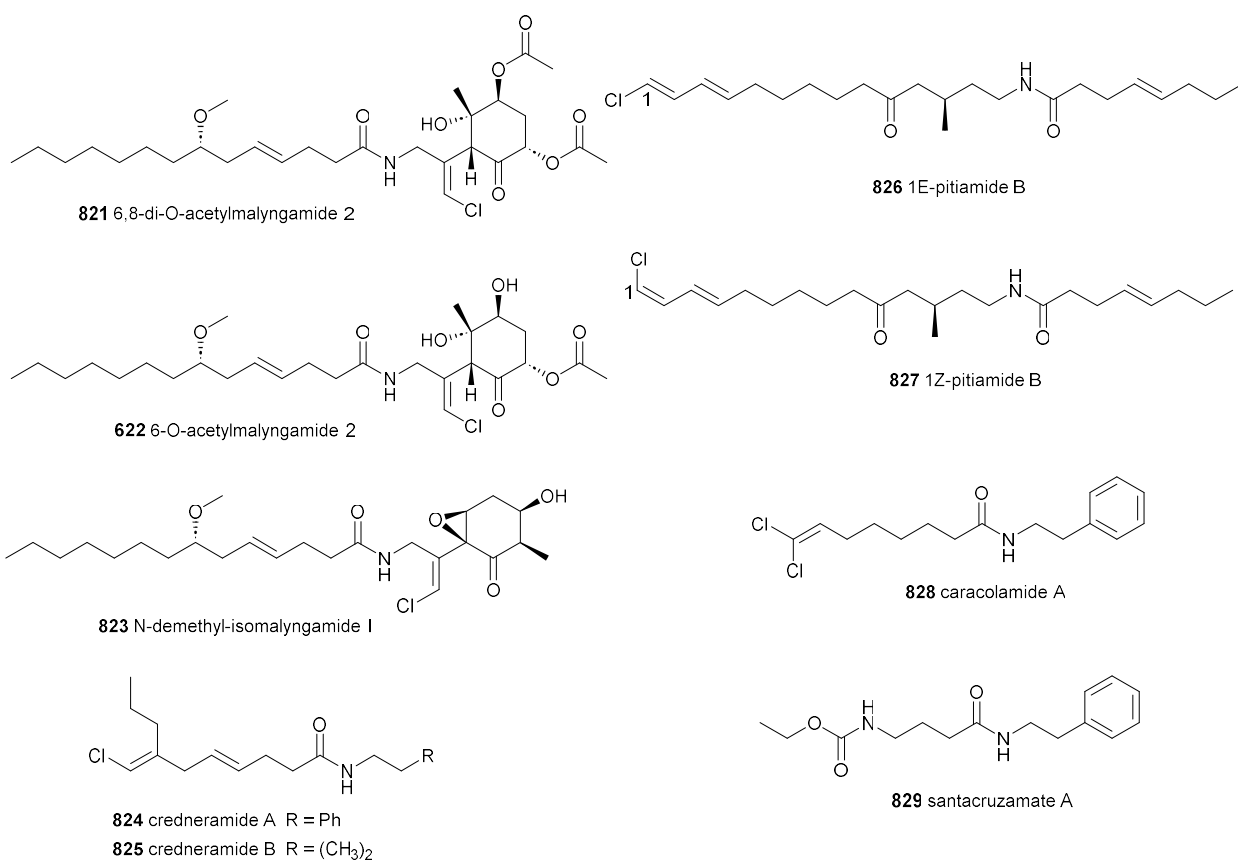


Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
830	nocuolin A	F	<i>Nostoc</i> sp.	10.1371/journal.pone.0172850
831	nocuolactylate A	F	<i>Nodularia</i> sp.	10.1002/anie.202015105
832	nocuolactylate B	F	<i>Nodularia</i> sp.	10.1002/anie.202015105
833	nocuolactylate C	F	<i>Nodularia</i> sp.	10.1002/anie.202015105
834	hapalosin C	F	<i>Fischerella</i> sp.	10.1002/anie.202015105
835	hapalosin D	F	<i>Fischerella</i> sp.	10.1002/anie.202015105
836	hapalosin E	F	<i>Fischerella</i> sp.	10.1002/anie.202015105
837	hapalosin F	F	<i>Fischerella</i> sp.	10.1002/anie.202015105
838	hapalosin G	F	<i>Fischerella</i> sp.	10.1002/anie.202015105

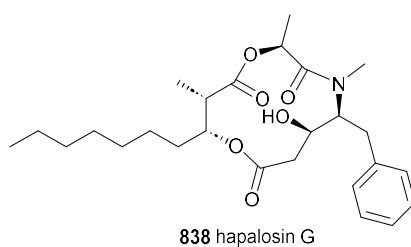
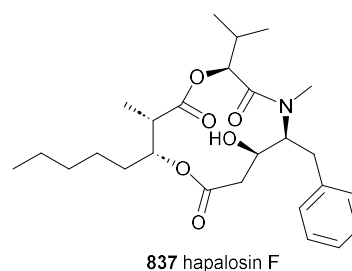
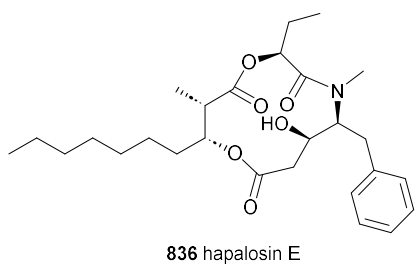
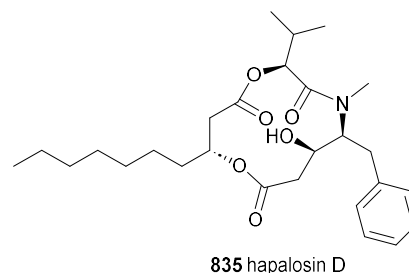
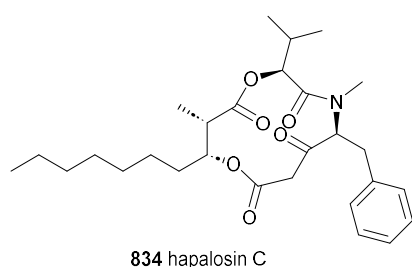
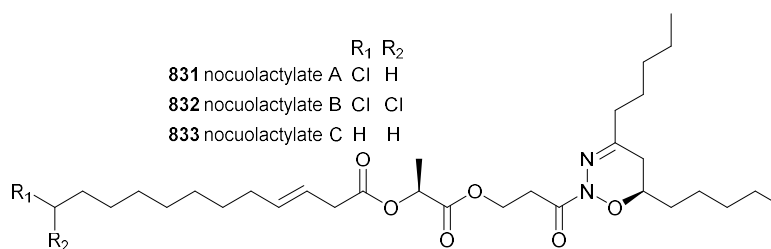
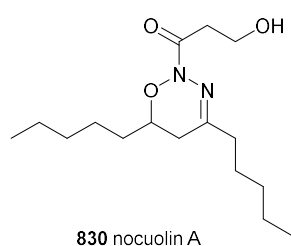


Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
839*	parguerene	M	<i>Moorea producens</i>	10.1021/np400347f
840	calothrixamide A	F	<i>Calothrix</i> sp.	10.1021/acs.jnatprod.8b00432
841	calothrixamide B	F	<i>Calothrix</i> sp.	10.1021/acs.jnatprod.8b00432
842*	mooreamide A	M	<i>Moorea bouillonii</i>	10.1007/s11745-014-3949-9
843	columbamide A	M	<i>Moorea bouillonii</i>	10.1021/acs.jnatprod.5b00301
844	columbamide B	M	<i>Moorea bouillonii</i>	10.1021/acs.jnatprod.5b00301
845	columbamide C	M	<i>Moorea bouillonii</i>	10.1021/acs.jnatprod.5b00301
846	columbamide D	M	<i>Moorea bouillonii</i>	10.1021/acs.orglett.7b01869
847	columbamide E	M	<i>Moorea bouillonii</i>	10.1021/acs.orglett.7b01869
848	columbamide F	M	<i>Moorea bouillonii</i>	10.1021/acs.jnatprod.0c00164
849	columbamide G	M	<i>Moorea bouillonii</i>	10.1021/acs.jnatprod.0c00164
850	columbamide H	M	<i>Moorea bouillonii</i>	10.1021/acs.jnatprod.0c00164
851	columbamide I	M	<i>Moorea bouillonii</i>	10.1021/acschembio.2c00347
852	columbamide J	M	<i>Moorea bouillonii</i>	10.1021/acschembio.2c00347
853	columbamide K	M	<i>Moorea bouillonii</i>	10.1021/acschembio.2c00347
854	columbamide L	M	<i>Moorea bouillonii</i>	10.1021/acschembio.2c00347
855	columbamide M	M	<i>Moorea bouillonii</i>	10.1021/acschembio.2c00347

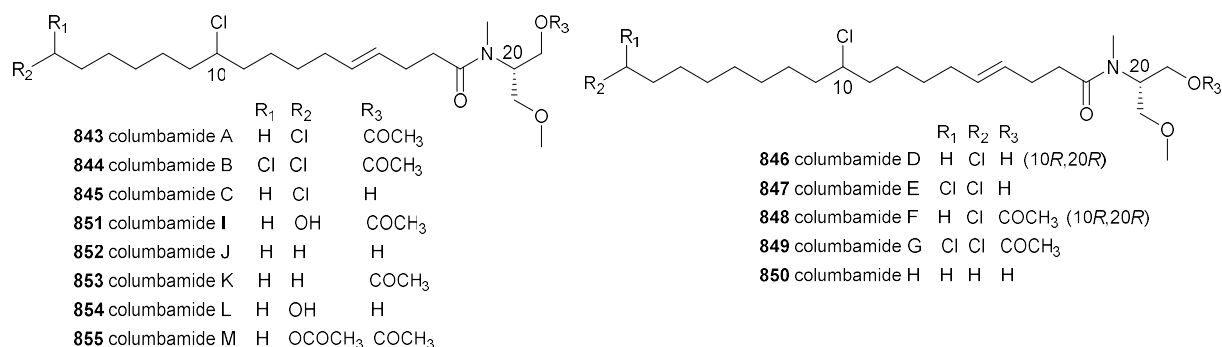
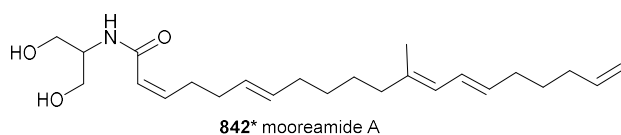
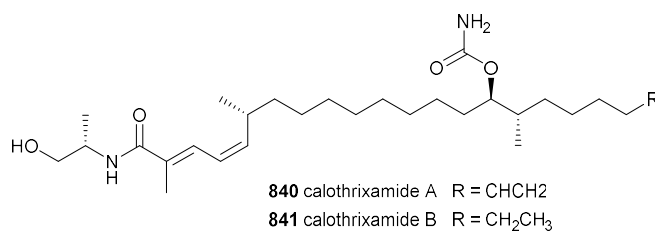
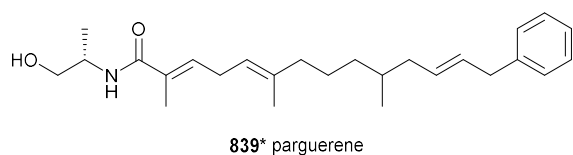


Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
856	serinolamide A	M	<i>Lyngbya majuscula</i>	10.1021/np200610t
857	serinolamide B	M	<i>Lyngbya majuscula</i>	10.1002/cbic.201200502
858	serinolamide C	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00449
859	serinolamide D	M	<i>Okeania</i> sp.	10.1021/acs.jnatprod.7b00449
860	propenediester	M	<i>Oscillatoria</i> sp.	10.1021/np200610t
861	2-hydroxyethyl-11-hydroxyhexadec-9-enoate	M	<i>Leptolyngbya</i> sp.	10.1111/are.13043
862	nostochopcerol	F	<i>Nostochopsis lobatus</i>	10.3762/bjoc.19.13
863	benderadiene	M	cf. <i>Lyngbya</i> sp.	10.3390/molecules28093965
864	lyngbyoic acid	M	<i>Lyngbya</i> cf. <i>majuscula</i>	10.1039/C0MB00180E

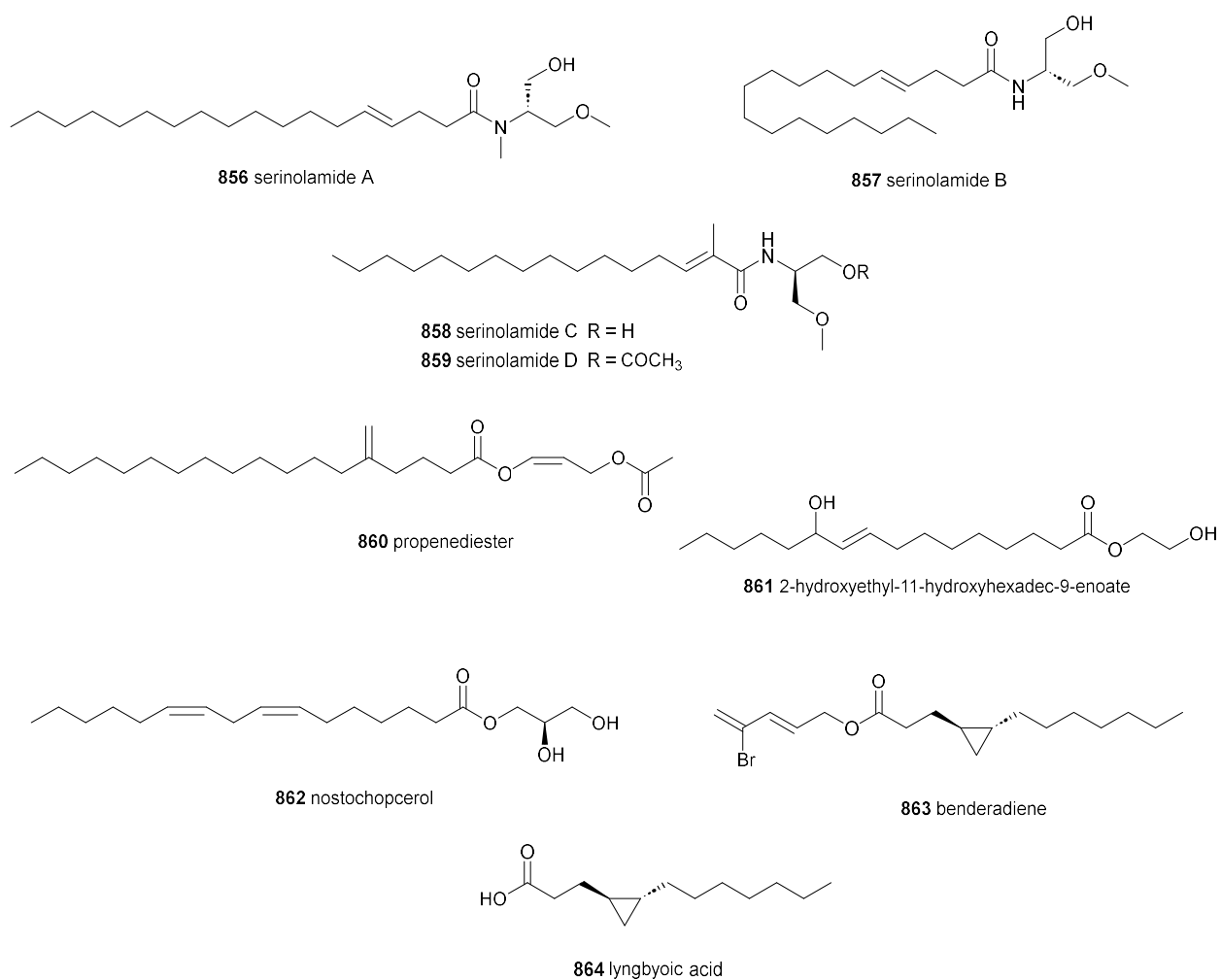
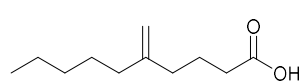
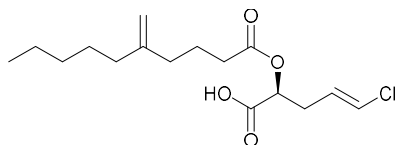


Table S3. (continued)

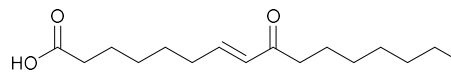
#	Compound	Habitat	Producing organism	DOI
865	pitinoic acid A	M	<i>Lyngbya</i> sp.	10.1021/ol401396u
866	pitinoic acid B	M	<i>Lyngbya</i> sp.	10.1021/ol401396u
867	7(E)-9-keto-hexadec-7-enoic acid	M	n.r.	10.3390/md21110553
868	dysidazirine carboxylic acid	M	<i>Caldora</i> sp.	10.3390/molecules27051717
869	11-oxopalmitelaidic acid	M	<i>Leibleinia gracilis</i>	10.3390/metabo10050215
870	puna'auic acid	M	<i>Pseudanabaena</i> sp.	10.1021/acs.orglett.8b00654
871	chlorosphaerolactylate A	F	<i>Sphaerospermopsis</i> sp.	10.1021/acs.jnatprod.0c00072
872	chlorosphaerolactylate B	F	<i>Sphaerospermopsis</i> sp.	10.1021/acs.jnatprod.0c00072
873	chlorosphaerolactylate C	F	<i>Sphaerospermopsis</i> sp.	10.1021/acs.jnatprod.0c00072
874	chlorosphaerolactylate D	F	<i>Sphaerospermopsis</i> sp.	10.1021/acs.jnatprod.0c00072
875*	mooreaside A	M	<i>Moorea producens</i>	10.3390/molecules21030324



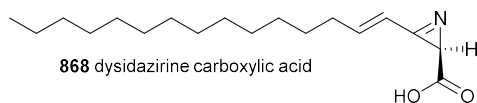
865 pitinoic acid A



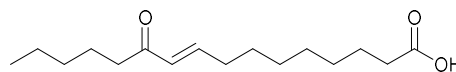
866 pitinoic acid B



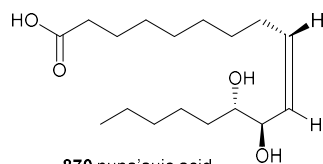
867 7(E)-9-keto-hexadec-7-enoic acid



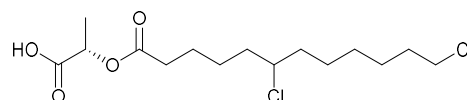
868 dysidazirine carboxylic acid



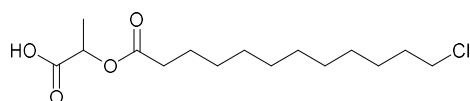
869 11-oxopalmitelaidic acid



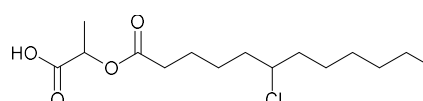
870 puna'auic acid



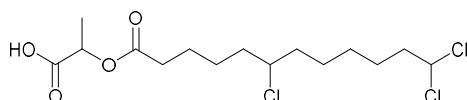
871 chlorosphaerolactylate A



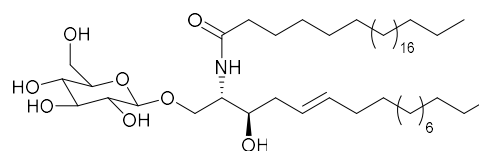
872 chlorosphaerolactylate B



873 chlorosphaerolactylate C



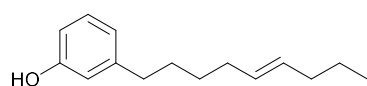
874 chlorosphaerolactylate D



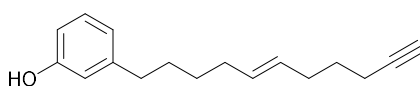
875* mooreaside A

Table S3. (continued)

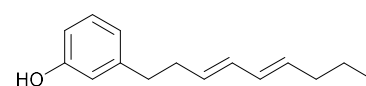
#	Compound	Habitat	Producing organism	DOI
876	anaephene A	M	<i>Hormoscilla</i> sp.	10.1021/acs.jnatprod.8b00650
877*	anaephene B	M	<i>Hormoscilla</i> sp.	10.1021/acs.jnatprod.8b00650
878	anaephene C	M	<i>Hormoscilla</i> sp.	10.1021/acs.jnatprod.8b00650
879	anaenamide A	M	<i>Hormoscilla</i> sp.	10.1021/acs.orglett.0c01281
880	anaenamide B	M	<i>Hormoscilla</i> sp.	10.1021/acs.orglett.0c01281
881	anaenoic acid	M	<i>Hormoscilla</i> sp.	10.1021/acs.orglett.0c01281
882	anaenamide C	M	<i>Hormoscilla</i> sp.	10.1021/acs.jnatprod.1c01073
883	anaenamide D	M	<i>Hormoscilla</i> sp.	10.1021/acs.jnatprod.1c01073



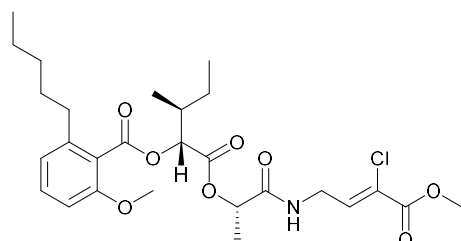
876 anaephene A



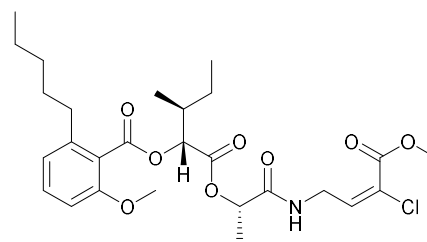
877* anaephene B



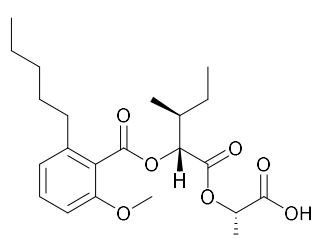
878 anaephene C



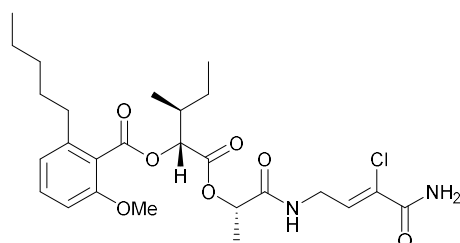
879 anaenamide A



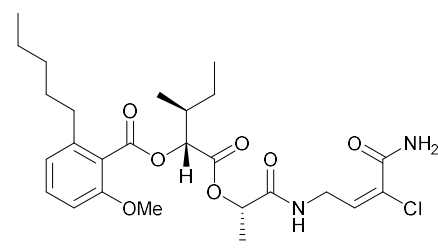
880 anaenamide B



881 anaenoic acid



882 anaenamide C



883 anaenamide D

Table S3. (continued)

#	Compound	Habitat	Producing organism	DOI
884	bartolosite A	M	<i>Nodosilinea</i> sp.	10.1002/anie.201503186
885	bartolosite B	M	<i>Synechocystis salina</i>	10.1002/anie.201503186
886	bartolosite C	M	<i>Synechocystis salina</i>	10.1002/anie.201503186
887	bartolosite D	M	<i>Synechocystis salina</i>	10.1002/anie.201503186
888	bartolosite E	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351
889	bartolosite F	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351
890	bartolosite G	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351
891	bartolosite H	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351
892	bartolosite I	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351
893	bartolosite J	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351
894	bartolosite K	M	<i>Synechocystis salina</i>	10.1021/acs.jnatprod.6b00351

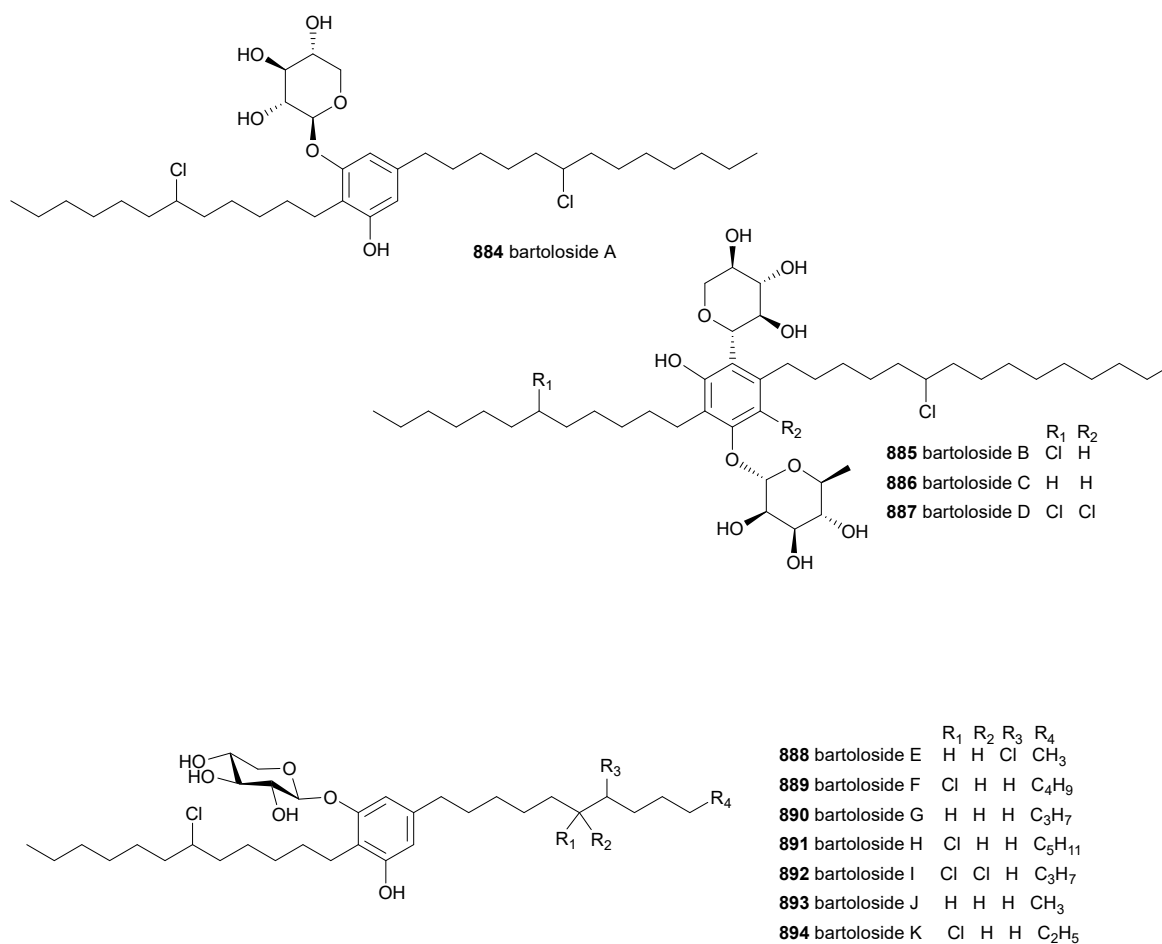
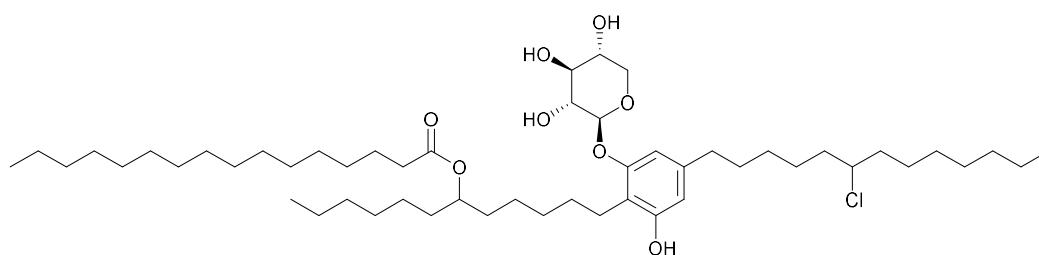
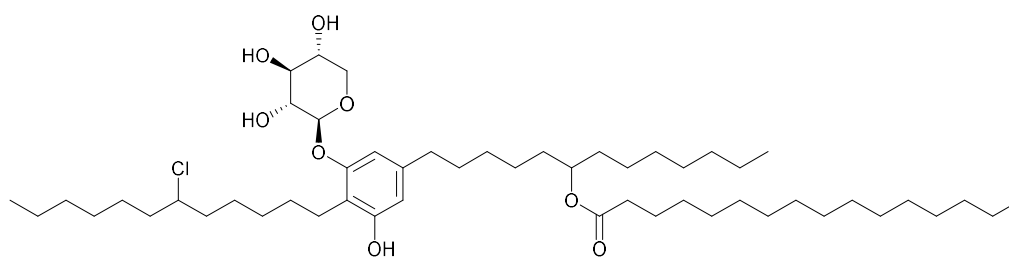


Table S3. (continued)

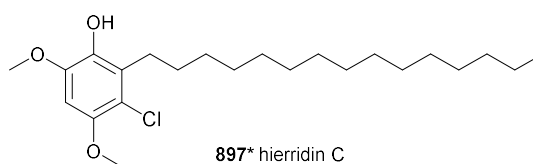
#	Compound	Habitat	Producing organism	DOI
895	bartoloside A-17-yl palmitate	M	<i>Synechocystis salina</i>	10.1038/s41467-020-15302-z
896	bartoloside A-29-yl palmitate	M	<i>Synechocystis salina</i>	10.1038/s41467-020-15302-z
897*	hierridin C	M	<i>Cyanobium</i> sp.	10.1021/acs.jnatprod.8b01038



895 bartoloside A-17-yl palmitate



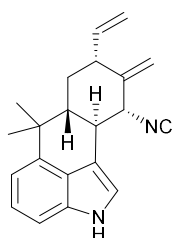
896 bartoloside A-29-yl palmitate



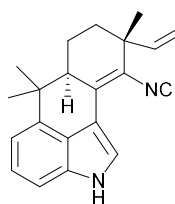
897* hierridin C

Table S4. Alkaloids from cyanobacteria (2010-2023)

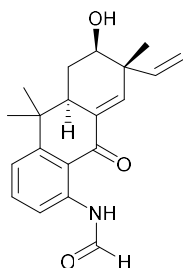
#	Compound	Habitat	Producing organism	DOI
898	hapalindole X	F	<i>Westiellopsis</i> sp.	10.1016/j.bmc.2012.06.030
899	deschloro hapalindole I	F	<i>Westiellopsis</i> sp.	10.1016/j.bmc.2012.06.030
900*	13-hydroxy dechlorofontonamide	F	<i>Fischerella muscicola</i>	10.1016/j.bmc.2012.06.030
901	hapalindole A-formamide	F	<i>Hapalosiphon</i> sp.	10.1055/a-1045-5178
902	hapalindole J-formamide	F	<i>Hapalosiphon</i> sp.	10.1055/a-1045-5178
903	12- <i>epi</i> -fischerindole I nitrile	F	<i>Fischerella</i> sp.	10.1016/j.tet.2012.02.048
904	deschloro 12- <i>epi</i> -fischerindole I nitrile	F	<i>Fischerella</i> sp.	10.1016/j.tet.2012.02.048
905	12- <i>epi</i> -fischerindole W nitrile	F	<i>Fischerella</i> sp.	10.1016/j.tet.2012.02.048
906	deschloro 12- <i>epi</i> -fischerindole W nitrile	F	<i>Fischerella</i> sp.	10.1016/j.tet.2012.02.048



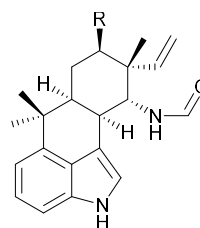
898 hapalindole X



899 deschloro hapalindole I



900* 13-hydroxy dechloro fontonamide



901 hapalindole A-formamide R = Cl

902 hapalindole J-formamide R = H

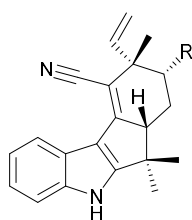
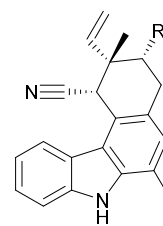
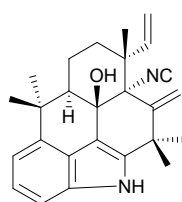
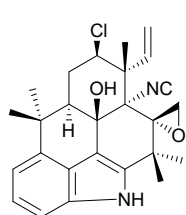
903 12-*epi*-fischerindole I nitrile R = Cl904 deschloro 12-*epi*-fischerindole I nitrile R = H905 12-*epi*-fischerindole W nitrile R = Cl906 deschloro 12-*epi*-fischerindole W nitrile R = H

Table S4. (continued)

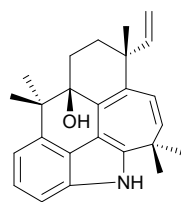
#	Compound	Habitat	Producing organism	DOI
907	fischambiguine A	F	<i>Fischerella ambigua</i>	10.1016/j.phytochem.2010.09.004
908	fischambiguine B	F	<i>Fischerella ambigua</i>	10.1016/j.phytochem.2010.09.004
909	ambiguine P	F	<i>Fischerella ambigua</i>	10.1016/j.phytochem.2010.09.004
910	ambiguine Q nitrile	F	<i>Fischerella ambigua</i>	10.1016/j.phytochem.2010.09.004
911	indole derivative 1	M	<i>Moorea producens</i>	10.1016/j.phytol.2017.09.025
912	indole derivative 2	M	<i>Moorea producens</i>	10.1016/j.phytol.2017.09.025
913	indole derivative 3	M	<i>Moorea producens</i>	10.1016/j.phytol.2017.09.025
914	indole derivative 4	M	<i>Moorea producens</i>	10.1016/j.phytol.2017.09.025
915	indole derivative 5	M	<i>Moorea producens</i>	10.1016/j.phytol.2017.09.025



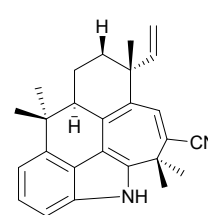
907 fischambiguine A



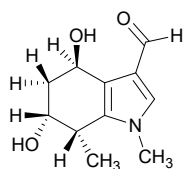
908 fischambiguine B



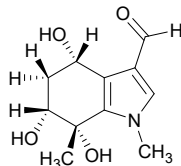
909 ambiguine P



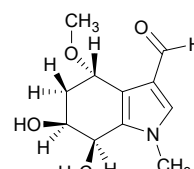
910 ambiguine Q nitrile



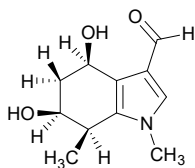
911 indole derivative 1



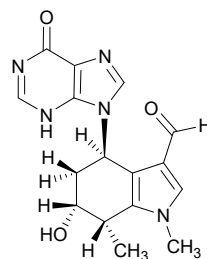
912 indole derivative 2



913 indole derivative 3



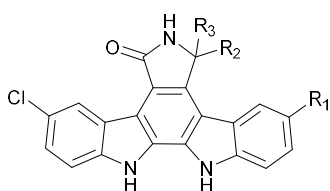
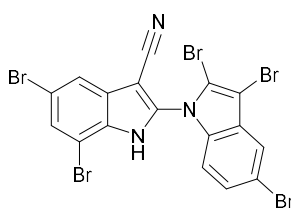
914 indole derivative 4



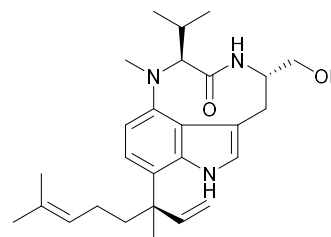
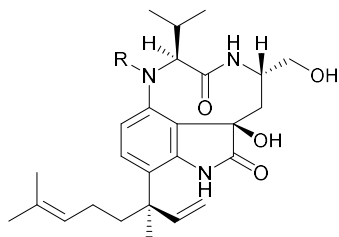
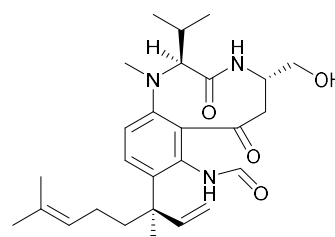
915 indole derivative 5

Table S4. (continued)

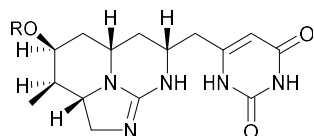
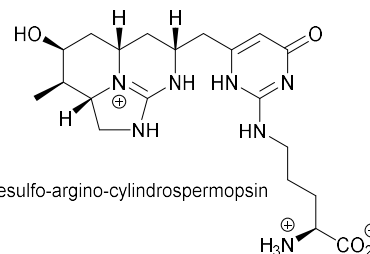
#	Compound	Habitat	Producing organism	DOI
916	tjipanazole K	F	<i>Fischerella ambigua</i>	10.1002/cbic.202000025
917	tjipanazole L	F	<i>Fischerella ambigua</i>	10.1002/cbic.202000025
918	tjipanazole M	F	<i>Fischerella ambigua</i>	10.1002/cbic.202000025
919*	aetokthonotoxin	F	<i>Aetokthonos hydrillicola</i>	10.1126/science.aax9050
920	12- <i>epi</i> -lyngbyatoxin A	M	<i>Moorea producens</i>	10.3390/md12052748
921	2-oxo-3(R)-hydroxy-lyngbyatoxin A	M	<i>Moorea producens</i>	10.3390/md12125788
922	2-oxo-3(R)-hydroxy-13-N-desmethyl-lyngbyatoxin A	M	<i>Moorea producens</i>	10.3390/md12125788
923	2,3-seco-2,3-dioxo-lyngbyatoxin A	M	<i>Moorea producens</i>	10.1080/14786419.2014.982647
924	7-deoxy-desulfo-cylindrospermopsin	F	<i>Cylindrospermopsis raciborskii</i>	10.1016/j.hal.2014.06.006
925	7-deoxy-desulfo-12-acetylcylindrospermopsin	F	<i>Cylindrospermopsis raciborskii</i>	10.1016/j.hal.2014.06.006
926*	7-deoxy-desulfo-argino-cylindrospermopsin	F	<i>Raphidiopsis raciborskii</i>	10.1021/jacs.2c03932

916 tjipanazole K $R_1 = \text{Cl}$ $R_2 = R_3 = \text{H}$ 917 tjipanazole L $R_1 = \text{Cl}$ $R_2 = R_3 = \text{O}$ 918 tjipanazole M $R_1 = \text{H}$ $R_2 = R_3 = \text{O}$ 

919* aetokthonotoxin

920 12-*epi*-lyngbyatoxin A921 2-oxo-3(R)-hydroxy-lyngbyatoxin A $R = \text{CH}_3$ 922 2-oxo-3(R)-hydroxy-13-N-desmethyl-lyngbyatoxin A $R = \text{H}$ 

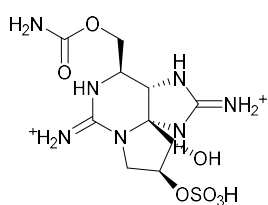
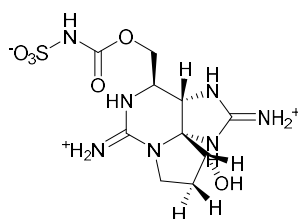
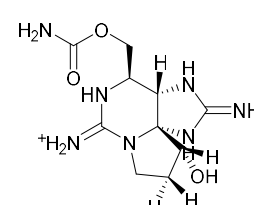
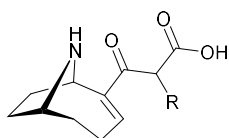
923 2,3-seco-2,3-dioxo-lyngbyatoxin A

924 7-deoxy-desulfo-cylindrospermopsin $R = \text{H}$ 925 7-deoxy-desulfo-12-acetylcylindrospermopsin $R = \text{COCH}_3$ 

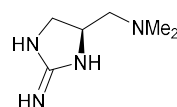
926* 7-deoxy-desulfo-argino-cylindrospermopsin

Table S4. (continued)

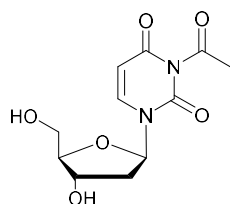
#	Compound	Habitat	Producing organism	DOI
927*	12 β -deoxygonyautoxin 3	F	<i>Anabaena circinalis</i>	10.3390/toxins11090539
928*	12 β -deoxygonyautoxin 5	F	<i>Dolichospermum circinale</i>	10.3390/md20030166
929*	12 β -deoxysaxitoxin	F	<i>Dolichospermum circinale</i>	10.3390/md20030166
930*	carboxy-homoanatoxin-a	F	<i>Oscillatoria</i> sp.	10.1021/acs.jnatprod.9b01121
931*	carboxy-dihydroanatoxin-a	F	<i>Cylindrospermum stagnale</i>	10.1021/acs.jnatprod.9b01121
932*	pre-guanitoxin	F	<i>Sphaerospermopsis torques-reginae</i>	10.1021/jacs.2c01424
933*	3-acetyl-21-deoxyuridine	F	<i>Moorea producens</i>	10.3390/molecules21030324
934*	3-phenylethyl-21-deoxyuridine	F	<i>Moorea producens</i>	10.3390/molecules21030324

927* 12 β -deoxygonyautoxin 3928* 12 β -deoxygonyautoxin 5929* 12 β -deoxysaxitoxin930* carboxy-homoanatoxin-a R = CH₃

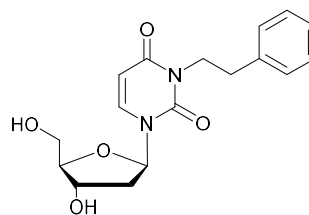
931* carboxy-dihydroanatoxin-a R = H



932* pre-guanitoxin



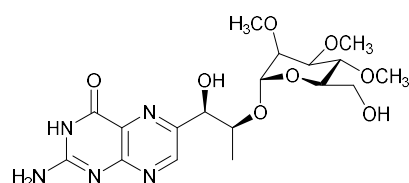
933* 3-acetyl-21-deoxyuridine



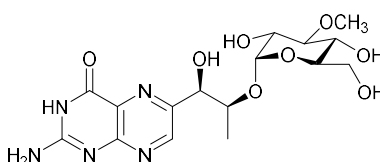
934* 3-phenylethyl-21-deoxyuridine

Table S4. (continued)

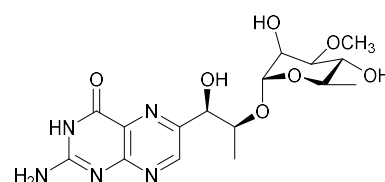
#	Compound	Habitat	Producing organism	DOI
935	microcystbiopterin A	F	<i>Microcystis</i> spp.	10.1016/j.phytochem.2016.01.010
936	microcystbiopterin B	F	<i>Microcystis</i> spp.	10.1016/j.phytochem.2016.01.010
937	microcystbiopterin C	F	<i>Microcystis</i> spp.	10.1016/j.phytochem.2016.01.010
938	microcystbiopterin D	F	<i>Microcystis</i> spp.	10.1016/j.phytochem.2016.01.010
939	microcystbiopterin E	F	<i>Microcystis</i> spp.	10.1016/j.phytochem.2016.01.010
940*	carriebowlinol	M	assemblage	10.1021/np500598x
941*	aulosirazole B	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.1c01030
942*	aulosirazole C	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.1c01030



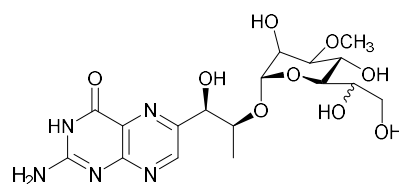
935 microcystbiopterin A



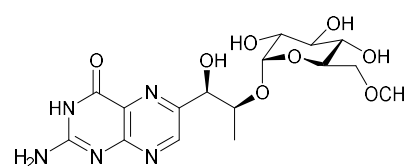
936 microcystbiopterin B



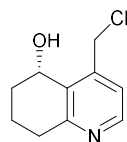
937 microcystbiopterin C



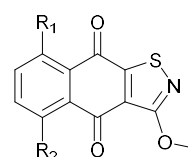
938 microcystbiopterin D



939 microcystbiopterin E



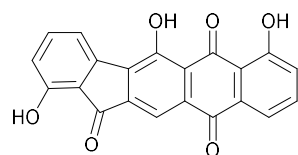
940* carriebowlinol



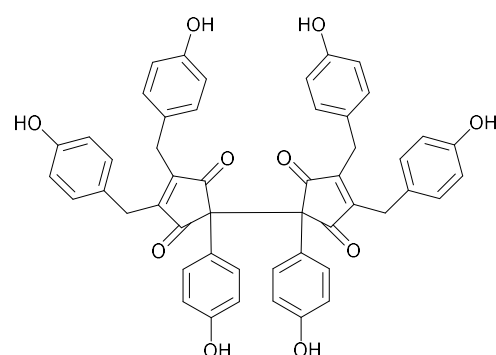
	R ₁	R ₂
941* aulosirazole B	H	H
942* aulosirazole C	COOH	OH

Table S5. Miscellaneous compounds from cyanobacteria (2010-2023)

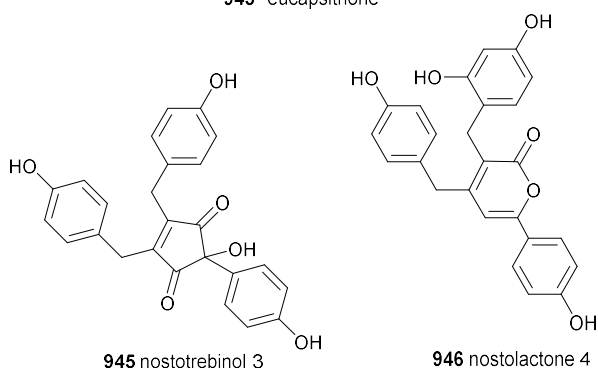
#	Compound	Habitat	Producing organism	DOI
943*	eucapsitrione	F	<i>Eucapsis</i> sp.	10.1021/np100299v
944	nostotrebin 6	F	<i>Nostoc</i> sp.	10.3109/14756360903213481
945	nostotrebinal 3	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.9b00885
946	nostolactone 4	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.9b00885
947	nostotrebin 7	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.9b00885
948	nostotrebinalactone 7	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.9b00885



943* eucapsitrione

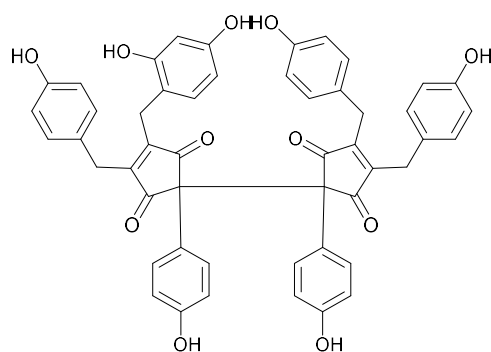


944 nostotrebin 6

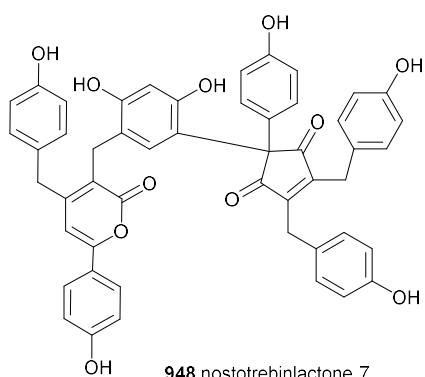


945 nostotrebinal 3

946 nostolactone 4



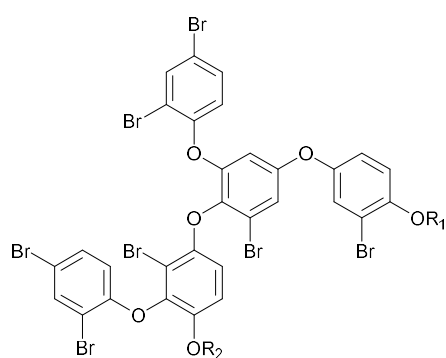
947 nostotrebin 7



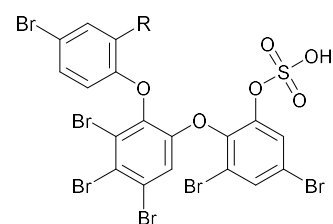
948 nostotrebinalactone 7

Table S5. (continued)

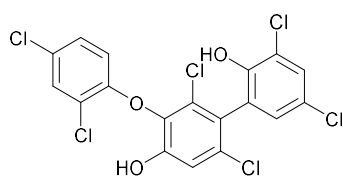
#	Compound	Habitat	Producing organism	DOI
949	crossbyanol A	M	<i>Leptolyngbya crossbyana</i>	10.1021/np900661g
950	crossbyanol B	M	<i>Leptolyngbya crossbyana</i>	10.1021/np900661g
951	crossbyanol C	M	<i>Leptolyngbya crossbyana</i>	10.1021/np900661g
952	crossbyanol D	M	<i>Leptolyngbya crossbyana</i>	10.1021/np900661g
953	bromoiesol A sulfate	M	<i>Salileptolyngbya</i> sp.	10.1021/acs.joc.1c01214
954	bromoiesol B sulfate	M	<i>Salileptolyngbya</i> sp.	10.1021/acs.joc.1c01214
955	ambigol D	F	<i>Fischerella ambigua</i>	10.1021/acschembio.0c00554
956	ambigol E	F	<i>Fischerella ambigua</i>	10.1021/acschembio.0c00554
957*	EMTAHDCA	F	<i>Nostoc</i> sp.	10.3389/fmicb.2016.01899



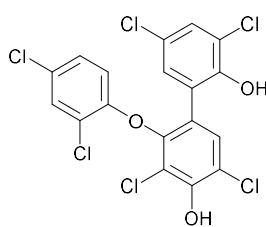
	R ₁	R ₂
949 crossbyanol A	H	H
950 crossbyanol B	SO ₃ H	SO ₃ H
951 crossbyanol C	H	SO ₃ H
952 crossbyanol D	SO ₃ H	H



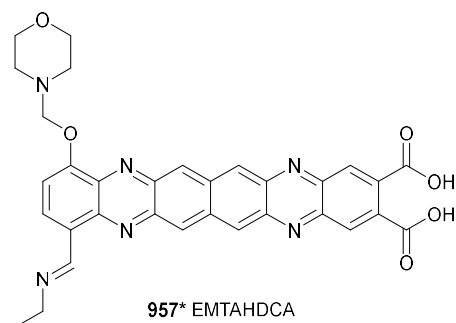
953 bromoiesol A sulfate R = Br
954 bromoiesol B sulfate R = I



955 ambigol D



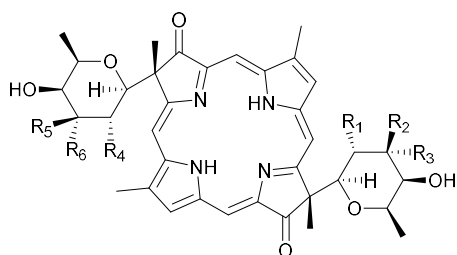
956 ambigol E



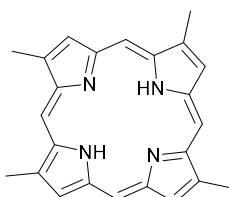
957* EMTAHDCA

Table S5. (continued)

#	Compound	Habitat	Producing organism	DOI
958	tolyporphin L	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
959	tolyporphin M	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
960	tolyporphin N	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
961	tolyporphin O	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
962	tolyporphin P	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
963	tolyporphin Q	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
964	tolyporphin R	F	<i>Brasilonema</i> sp.	10.1021/acs.joc.9b01928
965*	13 ² -hydroxy-pheofarnesin a	M	<i>Nodosilinea</i> sp.	10.3390/md17040229



	R ₁	R ₂	R ₃	R ₄	R ₅	R ₆
958 tolyporphin L	OH	H	OH	OAc	H	H
959 tolyporphin M	OAc	H	H	OH	H	OH
960 tolyporphin N	OH	OH	H	OAc	H	H
961 tolyporphin O	OAc	H	H	OH	OH	H



962 tolyporphin P

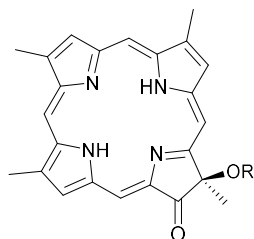
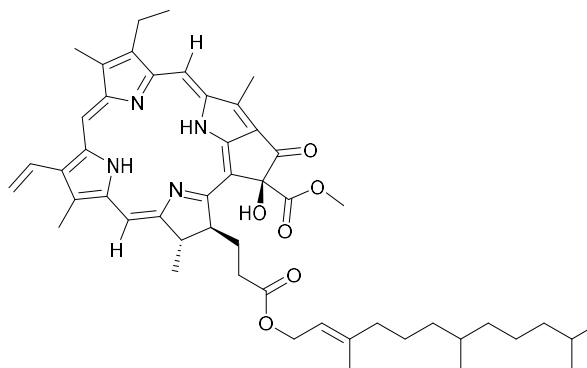
963 tolyporphin Q R = H
964 tolyporphin R R = Ac965* 13²-hydroxy-pheofarnesin a

Table S5. (continued)

#	Compound	Habitat	Producing organism	DOI
966*	478-Da MAA	F	<i>Nostoc commune</i>	10.1016/j.jphotobiol.2011.07.003
967	1050-Da MAA	F	<i>Nostoc commune</i>	10.1016/j.jphotobiol.2011.07.003
968	13-O-(β -galactosyl)-porphyra-334	F	<i>Nostoc sphaericum</i>	10.1016/j.jphotobiol.2017.05.019
969*	756-Da MAA or nostoc-756	F	<i>Nostoc commune</i>	10.1111/pre.12333
970	aplysiapalythine E	F	<i>Nostoc</i> sp.	10.1021/acschembio.3c00112

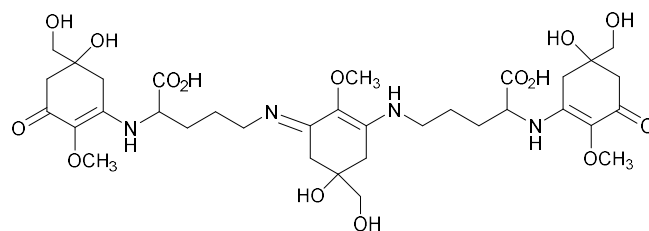
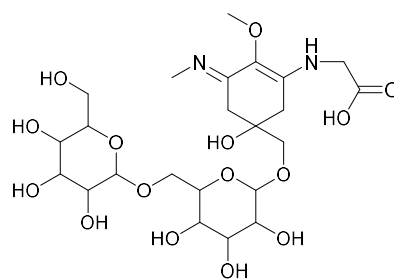
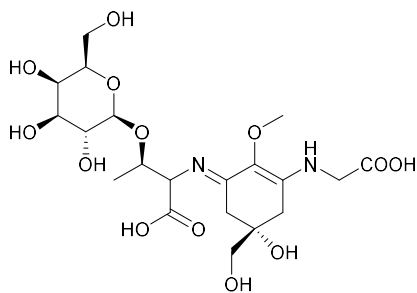
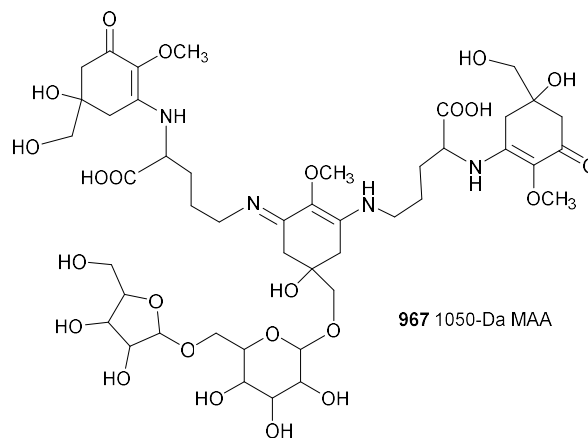
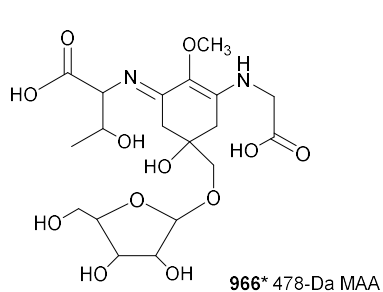
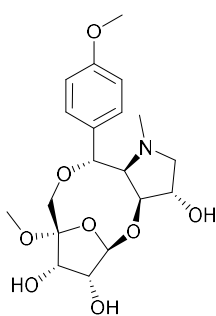
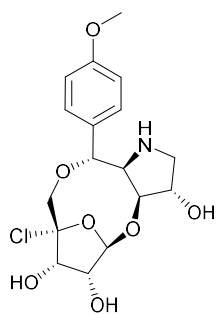


Table S5. (continued)

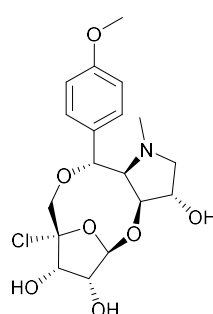
#	Compound	Habitat	Producing organism	DOI
971	dragocin A	M	<i>Symploca</i> -like morphology	10.1021/acs.orglett.8b03712
972	dragocin B	M	<i>Symploca</i> -like morphology	10.1021/acs.orglett.8b03712
973	dragocin C	M	<i>Symploca</i> -like morphology	10.1021/acs.orglett.8b03712
974*	dragocin D	M	<i>Symploca</i> -like morphology	10.1021/acs.orglett.8b03712
975	leptazoline A	F	<i>Leptolyngbya</i> sp.	10.1021/acs.orglett.9b03216
976	leptazoline B	F	<i>Leptolyngbya</i> sp.	10.1021/acs.orglett.9b03216
977	leptazoline C	F	<i>Leptolyngbya</i> sp.	10.1021/acs.orglett.9b03216
978	leptazoline D	F	<i>Leptolyngbya</i> sp.	10.1021/acs.orglett.9b03216
979*	thiopalmirone	M	cf. <i>Oscillatoria</i> and <i>Hormoscilla</i> spp. (assemblage)	10.1021/np200106b
980	hennaminal	M	<i>Rivularia</i> sp.	10.1021/acs.orglett.3c00421
981*	hennamide	M	<i>Rivularia</i> sp.	10.1021/acs.orglett.3c00421
982*	caldorin	M	<i>Caldora penicillata</i>	10.1016/j.tetlet.2018.02.046



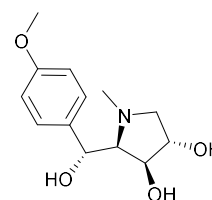
971 dragocin A



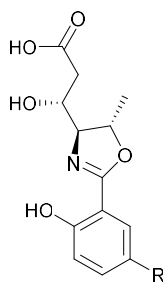
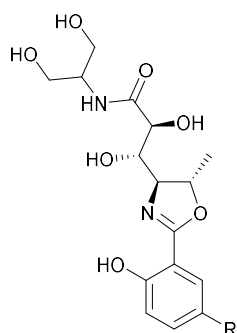
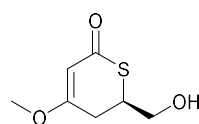
972 dragocin B



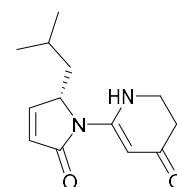
973 dragocin C



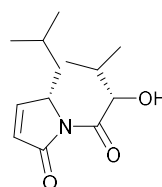
974* dragocin D

975 leptazoline A R = Cl
977 leptazoline C R = H976 leptazoline B R = Cl
978 leptazoline D R = H

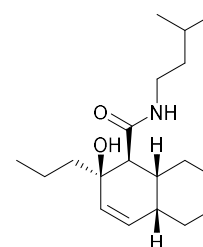
979* thiopalmirone



980* hennaminal



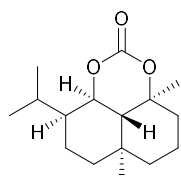
981* hennamide



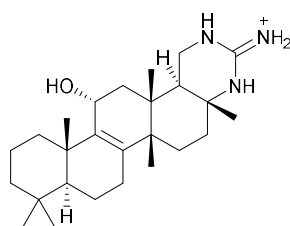
982* caldorin

Table S5. (continued)

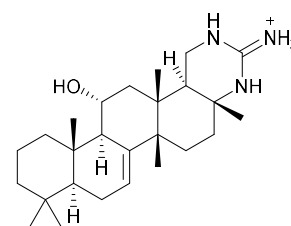
#	Compound	Habitat	Producing organism	DOI
983*	eudesmacarbonate	M	assemblage	10.1021/acs.jnatprod.0c00203
984	stigolone	F	<i>Scytonema</i> sp.	10.1021/acs.jnatprod.1c01014
985	11R,12-dihydroxystigolone	F	<i>Scytonema</i> sp.	10.1021/acs.jnatprod.1c01014
986	11S,12-dihydroxystigolone	F	<i>Scytonema</i> sp.	10.1021/acs.jnatprod.1c01014
987	spironostoic acid	F	<i>Calothrix</i> sp.	10.1021/acs.jnatprod.1c01014
988	11,12-didehydrospironostoic acid	F	<i>Calothrix</i> sp.	10.1021/acs.jnatprod.1c01014
989	12-hydroxy-2-oxo-11- <i>epi</i> -hinesol	F	<i>Calothrix</i> sp.	10.1021/acs.jnatprod.1c01014
990*	cybastacine A	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00638
991*	cybastacine B	F	<i>Nostoc</i> sp.	10.1021/acs.jnatprod.7b00638
992	6-deoxytolypodiol	F	<i>Brasilonema</i> sp.	10.1021/acs.jnatprod.9b00844
993	11-hydroxytolypodiol	F	<i>Brasilonema</i> sp.	10.1021/acs.jnatprod.9b00844
994	6-oxo-tolypodiol	F	<i>Brasilonema</i> sp.	10.1021/acschembio.3c00225
995	1-oxo-tolypodiol	F	<i>Brasilonema</i> sp.	10.1021/acschembio.3c00225



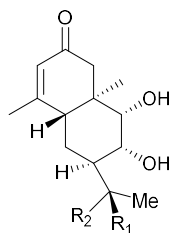
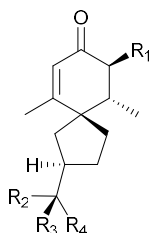
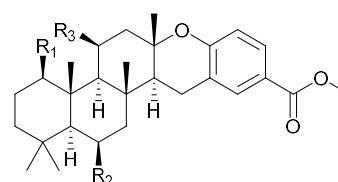
983* eudesmacarbonate



990* cybastacine A



991* cybastacine B

984 stigolone $R_1=R_2=CH_2$ 985 11R,12-dihydroxystigolone $R_1=OH; R_2=CH_2OH$ 986 11S,12-dihydroxystigolone $R_1=CH_2OH; R_2=OH$ 987 spironostoic acid $R_1=H; R_2=CO_2H; R_3=H; R_4=CH_3$ 988 11,12-didehydrospironostoic acid $R_1=H; R_2=CO_2H; R_3=R_4=CH_2$ 989 12-hydroxy-2-oxo-11-*epi*-hinesol $R_1=H; R_2=CH_2OH; R_3=CH_3; R_4=OH$ 992 6-deoxytolypodiol $R_1=OH; R_2=H; R_3=H$ 993 11-hydroxytolypodiol $R_1=OH; R_2=OH; R_3=OH$ 994 6-oxo-tolypodiol $R_1=OH; R_2=O; R_3=H$ 995 1-oxo-tolypodiol $R_1=O; R_2=OH; R_3=H$