

Table S1. List of two oxygen bridge-type compounds. Source, melting point, specific optical rotation, absolute configuration, structural confirmation by X-ray analysis, and bioactivity.

Name	Ref.	Source	M.p./°C	[α] _D	X-ray	CD/abs. conf.	Bioactivity
MK 3018 1	4	<i>Tetraploa aristata</i> I R 25	–	–	–	–	broad antibacterial
Bipendensin 2	6, 7	<i>Azelia bipendensis</i>	254	–	–	–	not tested
Sch 53823 2	8	Endophyte	235–240	+227	–	–	phospholipase D inhibitor
Sch 53825 3	8	Endophyte	182–183	+74	–	–	phospholipase D inhibitor
Diepoxin α 4	10	Nonsporulating fungus	–	+30	–	+	antifungal, antibacterial
Diepoxin η 5	10	Nonsporulating fungus	250	+30, +23	–	+(11)	virtually inactive
Diepoxin ζ 6	10	Nonsporulating fungus	–	+75	–	–	antifungal, antibacterial
Sch 53514 6	17	<i>Natrassia mangiferae</i>	152–154	–	–	–	antitumor phospholipase
Cladospirone bisepoxide 6	12,13	<i>Sphaeropsidales</i> sp.	>160	–	+	+	antibacterial, herbicidal
Diepoxin σ 7	10	<i>Mycelia sterila</i>	–	+67	–	+	
Sch 49209 7	15	<i>Natrassia mangiferae</i>	144–146	+79.1	–	–	antitumor
Diepoxin τ 8	11	Derivative	–	–	–	+	not tested
Diepoxin κ 9	11	Derivative	158, 232	–	+	+	not tested
Diepoxin γ 10	11	Nonsporulating fungus	–	–	+	+	antifungal, antitacterial
Diepoxin δ 11	11	Nonsporulating fungus	241	–	–	+	not tested
Sch 49210 12	17	<i>Natrassia mangiferae</i>	140–143	–	–	rel.	PLD inhibition
Sch 49211 13	18	<i>Natrassia mangiferae</i>	–	–	–	–	PLD inhibition
Sch 49212 14	18	<i>Natrassia mangiferae</i>	–	–	–	–	PLD inhibition
Sch 50673 15	19	<i>Natrassia mangiferae</i>	164–166	–89.8	–	–	antitumor
Palmarumycin C ₄ 17	20	<i>Coniothyrium</i> sp.	84	–285.5	–	–	antibacterial, antifungal
Palmarumycin C ₇ 18	20	<i>Coniothyrium</i> sp.	–	–	–	–	not tested
Palmarumycin C ₈ 19	20	<i>Coniothyrium</i> sp.	–	–	–	+/(43)	not tested
Palmarumycin C ₉ 20	20	<i>Coniothyrium</i> sp.	–	–	–	–	antibacterial, antifungal
Palmarumycin C ₁₀ 21	20	<i>Coniothyrium</i> sp.	236	–48.2	–	+/(43)	antibacterial, antifungal
Palmarumycin C ₁₅ 22	20	<i>Coniothyrium</i> sp.	148–149	–18.1	–	–	antifungal
Palmarumycin C ₁₆ 23	20	<i>Coniothyrium</i> sp.	187–188	–43.3	–	–	not tested
Cladospirone C 25	23	Sphaeropsidales	164	–35	–	+	antibacterial
Cladospirone D 26	23	Sphaeropsidales	127	+55	–	+	antibacterial, herbicidal
Cladospirone E 27	23	Sphaeropsidales	236	–217	+	+	not active
Cladospirone G 28	23	Sphaeropsidales	135	+5	–	+	not active
Cladospirone H 29	23	Sphaeropsidales	156	–22	–	+	not active
Cladospirone I 30	23	Sphaeropsidales	138	+14.6	–	+	not active
Palmarumycin CP ₃ 35	24	<i>Coniothyrium palmarum</i>	190	–102.8	+	+/(22)	antibacterial, antifungal
Palmarumycin CP ₄ 36	24	<i>Coniothyrium palmarum</i>	193	+495	+	–	antibacterial, antifungal
Palmarumycin CP ₁₈ 37	25	<i>Coniothyrium palmarum</i>	213	+70.6	+	+/(43)	not tested
Palmarumycin CP ₅ 38	25	<i>Coniothyrium palmarum</i>	168	+45.5	+	+/(43)	not tested
Decaspirone A 39	28	<i>Decaisnella thyridioides</i>	141–142	+309	+	–	antibacterial
Decaspirone B 40	28	<i>Decaisnella thyridioides</i>	–	+171	–	–	antibacterial
Decaspirone C 41	28	<i>Decaisnella thyridioides</i>	–	+89	–	–	antibacterial
Decaspirone D 42	28	<i>Decaisnella thyridioides</i>	–	+102	–	–	antibacterial
Decaspirone E 43	28	<i>Decaisnella thyridioides</i>	–	+171	–	–	antibacterial
Decaspirone F 44	29	<i>Helicoma viridis</i>	235–238	+87	+	–	antibacterial
Decaspirone G 45	29	<i>Helicoma viridis</i>	230–233	+116	–	–	antibacterial
Decaspirone H 46	29	<i>Helicoma viridis</i>	148–150	+189	–	–	antibacterial
Palmarumycin M ₁ 48	30	<i>Microsphaeropsis</i> sp.	230–231	+249	+	+	antibacterial, antifungal
Palmarumycin M ₂ 49	30	<i>Microsphaeropsis</i> sp.	–	+355	–	–	antibacterial, antifungal
Palmarumycin CP ₁ 50	24	<i>Coniothyrium palmarum</i>	170	–	–	+/(43)	weakly antibacterial
Palmarumycin CP ₂ 51	24	<i>Coniothyrium palmarum</i>	170	–	–	–	not active
Palmarumycin CP ₂ 51	45	<i>Edenia gomezpompae</i>	–	–	+	–	not active
Palmarumycin C ₁ 52	20	<i>Coniothyrium</i> sp.	>180	–	–	–	not tested
Palmarumycin C ₂ 53	20	<i>Coniothyrium</i> sp.	228	–341	+	+/(43)	antibacterial, antifungal
Deoxypreussomerin A 53	20	Unidentified coelomycete	235–236	–300	–	–	not tested
Deoxypreussomerin A 53	42	<i>Microsphaeropsis</i> sp.	–	–	–	–	antimycobacterial, antiplasmodial
Palmarumycin C ₃ 54	20	<i>Coniothyrium</i> sp.	220	–300	–	–	not tested
Palmarumycin C ₅ 55	20	<i>Coniothyrium</i> sp.	170	–	+	–	not tested
Palmarumycin C ₆ 56	20	<i>Coniothyrium</i> sp.	191–192	–	–	–	not active
Sch 50676 16	19	<i>Natrassia mangiferae</i>	235–238	–133.5	–	–	antitumor
Palmarumycin C ₁₁ 57	20	<i>Coniothyrium</i> sp.	237–238	–153	–	–	weakly antibacterial
Palmarumycin C ₁₁ 57	43	<i>Microsphaeropsis</i> sp.	–	–	–	–	
Palmarumycin C ₁₂ 58	20	<i>Coniothyrium</i> sp.	207–208	–179.6	–	+/(43)	antibacterial, antifungal
CJ 12,371 59	32	Unidentified fungus	>265	–46.8	–	+/(43)	gyrase inhibitor
CJ 12,372 60	32	Unidentified fungus	>238	–82.0	–	+/(43)	gyrase inhibitor
Cladospirone B 33	23	Sphaeropsidales	230	–270	+	+	not active
Cladospirone F 34	23	Sphaeropsidales	140	–150	–	+	not active
Palmarumycin JC1 61	33	<i>Jatropha curcas</i>	208–210	+82.5	+	–	antibacterial
Palmarumycin JC1 61	53	<i>Diospyros ehretioides</i>	–	+206.5	+	–	not active
Palmarumycin JC2 62	33	<i>Jatropha curcas</i>	192–194	+131.9	–	–	antibacterial

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Palmarumycin JC2 62	53	<i>Diospyros ehretioides</i>		+115.8			antimalarial, antifungal, antibacterial, cytotoxicity
Palmarumycin CP ₁₇ 63	34	<i>Edenia</i> sp.	152–153				antileishmanial, cytotoxicity
Palmarumycin CP ₁₈ 64	34	<i>Edenia</i> sp.	112–114	+260			antileishmanial, cytotoxicity
Ascochyatin 65	36	<i>Ascochyta</i> sp.	227–229	–153	+		antibacterial, cytotoxicity
Spiropreussomerin A 115	51	<i>Preussia</i> sp.	241–243				cytotoxicity, antibacterial
Palmarumycin BG1 66	37	<i>Bruguiera gymnorrhiza</i>		–151.0		+	not active
Palmarumycin BG2 67	37	<i>Bruguiera gymnorrhiza</i>		–40		+	not active
Palmarumycin BG3 68	37	<i>Bruguiera gymnorrhiza</i>		–261		+	not active
Palmarumycin BG4 69	37	<i>Bruguiera gymnorrhiza</i>		+101		+	not active
Palmarumycin BG5 70	37	<i>Bruguiera gymnorrhiza</i>		–314.7		+	cytotoxicity
Palmarumycin BG6 71	37	<i>Bruguiera gymnorrhiza</i>		+60		+	not active
Palmarumycin BG7 72	37	<i>Bruguiera gymnorrhiza</i>		–171		+	not active
Preussomerin BG1 73	37	<i>Bruguiera gymnorrhiza</i>		–135		+	not active

Table S2. List of three oxygen bridge-type compounds. Source, melting point, specific optical rotation, structural confirmation by X-ray analysis, and bioactivity.

Name	Ref.	Source	M.p./°C	$[\alpha]_D$	X-ray	CD/abs. conf.	Bioactivity
Preussomerin A 74	38, 39	<i>Preussia isomera</i>	235–240	–212	+	+	antifungal
Preussomerin B 75	39	<i>Preussia isomera</i>	–	–242	–	–	antifungal
Preussomerin C 76	39	<i>Preussia isomera</i>	–	–155	–	–	antifungal
Preussomerin C 76	45	Unidentified fungus	–	–157.8	–	–	nematicidal activity
Preussomerin D 77	39	<i>Preussia isomera</i>	–	–144	–	–	antifungal
Preussomerin D 77	31	Coelomycetous fungus	–	–	–	–	–
Preussomerin D 77	45	Unidentified fungus	–	–158.8	–	–	nematicidal activity
Preussomerin E 78	39	<i>Preussia isomera</i>	–	–244	–	–	antifungal
Preussomerin E 78	43	<i>Microsphaeropsis</i> sp.	–	–	–	–	antimycobacterial, antiplasmodial
Preussomerin F 79	39	<i>Preussia isomera</i>	–	–240	–	–	antifungal
Preussomerin F 79	43	<i>Microsphaeropsis</i> sp.	–	–	–	–	antimycobacterial, antiplasmodial
Preussomerin G 80	31	Coelomycetous fungus	222–225	–688	+	–	–
Preussomerin G 80	43	<i>Microsphaeropsis</i> sp.	–	–	–	–	antimycobacterial, antiplasmodial
Preussomerin G 80	42	<i>Mycelia sterila</i>	222–225	–	–	+	–
Preussomerin H 81	31	Coelomycetous fungus	–	–371	–	+	–
Preussomerin H 81	42	<i>Mycelia sterila</i>	–	–	–	+	–
Preussomerin H 81	43	<i>Microsphaeropsis</i> sp.	–	–	–	–	antimycobacterial, antiplasmodial
Preussomerin I 82	42	<i>Mycelia sterila</i>	130–132	–	–	+	–
Preussomerin I 82	43	<i>Microsphaeropsis</i> sp.	–	–	–	–	antimycobacterial, antiplasmodial
Preussomerin J 83	42	<i>Mycelia sterila</i>	–	–218	–	+	–
Preussomerin K 84	42	<i>Mycelia sterila</i>	–	–150	–	+	–
Preussomerin K 84	43	<i>Microsphaeropsis</i> sp.	238–240	–533	–	–	antimycobacterial, antiplasmodial
Preussomerin L 85	42	<i>Mycelia sterila</i>	171–173	–557	+	+	–
95	44	<i>Sporormiella vexans</i>	–	–123	–	–	antifungal antibacterial
Ymf 1029 A 96	45	Unidentified fungus	–	–260.8	–	–	nematicidal activity
Ymf 1029 B 97	45	Unidentified fungus	–	–298.8	–	–	nematicidal activity
Ymf 1029 C 98	45	Unidentified fungus	–	–317.1	–	–	nematicidal activity
Ymf 1029 D 99	45	Unidentified fungus	–	–308.1	–	–	nematicidal activity
Ymf 1029 E 100	45	Unidentified fungus	–	–327.7	–	–	nematicidal activity
Preussomerin EG ₁ 101	46	<i>Edenia gomezpompae</i>	215.7	–114	–	–	antibacterial, antifungal
Preussomerin EG ₂ 102	46	<i>Edenia gomezpompae</i>	224	–143	–	–	antibacterial, antifungal
Preussomerin EG ₃ 103	46	<i>Edenia gomezpompae</i>	183.6–185.6	–178	–	–	antibacterial, antifungal

Table S3. List of spiroxins, spiro-nonadienes and bisnaphthalenes. Source, melting point, specific optical rotation, structural confirmation by X-ray analysis, and bioactivity.

Name	Ref.	Source	M.p./°C	$[\alpha]_D$	X-ray	CD/abs. conf.	Bioactivity
Spiroxin A 106	47	Marine endophyte		-644			antibacterial, DNA cleaving
Spiroxin B 107	47	Marine endophyte		-475			antibacterial, DNA cleaving
Spiroxin C 108	47	Marine endophyte		-706			antibacterial, DNA cleaving
Spiroxin D 109	47	Marine endophyte					antibacterial, DNA cleaving
Spiroxin E 110	47	Marine endophyte					antibacterial, DNA cleaving
Spiro-mamakone A 111	50	Nonsporulating fungal endophyte					cytotoxicity, antibacterial
Spiroreussione A 113	51	<i>Preussia</i> sp.	153–154	-6.41			cytotoxicity, antibacterial
Spiroreussione B 114	51	<i>Preussia</i> sp.		+6.06			not active
Decaspirone I 147	29	<i>Helicoma viridis</i>	147–150	+104			antibacterial
Compound 116	52	<i>Coniothyrium palmarum</i>	220	+43.1		+	not tested
Isodiospyol A 119	53	<i>Diospyros ehretioides</i>	101.9–102.8	-34.5			antimalarial, antimycobacterial
Sphaerolone 120	54	<i>Sphaeropsidales</i> sp.	210				
Dihydrosphaerolone 121	54	<i>Sphaeropsidales</i> sp.	139	+57			
RF-3192C 122	55	<i>Cheatomella circinoseta</i>	>150 dec.				aldose reductase inhibitor
Stemphytoxin I 123	57	<i>Stemphylium botryosum</i> var.	135–140	+355.9			antibacterial
Stemphytoxin II 124	57	<i>Stemphylium botryosum</i> var.	300	+480.7			antibacterial
Stemphytoxin III 125	56	<i>Stemphylium botryosum</i> var.	190–300 dec.	+891			antibacterial
Stemphytoxin III 125	57	<i>Stemphylium botryosum</i> var.	>300 dec.	+688.5			antibacterial
Stemphytoxin IV 126	57	<i>Stemphylium botryosum</i> var.	>300 dec.				antibacterial
Stemphyperyleneol 127	57	<i>Stemphylium botryosum</i> var.	250 dec.				antibacterial
Altertoxin I 128	58, 59, 60, 61	<i>Alternaria alternata</i>	>180 dec.	+484			mutagenicity, antifungal
Altertoxin I 129	59	<i>Alternaria alternata</i>	245–250	+636			mutagenicity
Altertoxin III 130	59	<i>Alternaria alternata</i>	175–230	+845			mutagenicity
Alterperyleneol 131	60, 61	<i>Alternaria alternata</i>	182–185	+699	+		phototoxicity, antifungal
Alterlosin I 132	61	<i>Alternaria alternata</i>	191–193	+122			phototoxicity
Alterlosin II 133	61	<i>Alternaria alternata</i>	185–187	+131			phototoxicity
Stemphytriol 134	62	<i>Monodictys fluctuata</i>	180–182	+451		+	
Xanalteric acid I 135	62	<i>Alternaria</i> sp.		-120			antibacterial
Xanalteric acid II 136	62	<i>Alternaria</i> sp.		+40			antibacterial