

**Supplementary Table S2.** List of putative VOCs produced by the 11 *Streptomyces* isolated from a *Rhizoctonia*-suppressive soil and the reference strain *S. lividans* 1326. VOCs displayed are significantly different ( $p < 0.05$ ), detected at peak intensities at least twice as high as in the control (medium only) and with a match factor higher than 800. Compounds were putatively annotated by comparing their mass spectra with those of NIST and in-house mass spectral libraries.

RI	Putative compound	3A18	3A41	3B40	3B44	W47	W62	W75.5	W75.6	W99	W126	W214	<i>S. lividans</i>
737	3-Hydroxy-2-butanone	X	X		X	X			X	X		X	
743	Methyl butanoate		X	X	X	X	X		X	X	X	X	
745	Butanoic acid, methyl ester	X		X	X				X			X	
749	3-Methyl-3-buten-1-ol	X	X	X	X	X	X	X	X	X	X	X	
751	1-Butanol, 3-methyl	X	X	X	X	X			X	X	X	X	
754	1-Butanol, 2-methyl-, (S)	X	X	X	X	X			X	X	X	X	
760	Dimethyl disulfide	X	X	X	X	X	X	X	X	X	X	X	
774	2-Methylpropanoic acid							X			X		
792	Butanoic acid		X	X	X	X			X	X		X	
796	Furan, 2-propyl									X			
799	Butanoic acid, 2-methyl-, methyl ester	X	X	X	X	X	X		X	X	X	X	
805	meso-3,4-Hexanediol	X	X	X	X	X			X	X		X	
807	Propanoic acid, 2-hydroxy-2-methyl-, methyl ester	X	X	X	X	X			X	X		X	
812	Oxirane, (methoxymethyl)	X	X	X	X	X	X		X	X		X	
817	Acetic acid, butyl ester		X	X				X				X	
818	Butanoic acid, 3,3-dimethyl-, methyl ester	X	X	X	X	X			X	X	X	X	
850	Butanethioic acid, S-methyl ester	X	X	X	X	X	X	X	X	X	X	X	
856	2-Methylbutanoic acid		X		X				X	X		X	
858	2-Hexanone, 5-methyl	X	X		X	X	X	X	X	X	X	X	
861	Butanoic acid, 2-ethyl-, methyl ester		X	X	X				X	X		X	
867	2-Butenoic acid, 2-methyl-, methyl ester, (E)-	X	X		X	X	X	X	X	X	X	X	
869	Pentanoic acid, 2-methyl-, methyl ester		X	X	X	X	X	X	X	X	X	X	
886	1-Propanone, 1-(2-furanyl)								X			X	
888	Butanethioic acid, S-methyl ester	X	X	X	X	X			X		X	X	
890	Pentanoic acid, 4-methyl-, methyl ester		X		X	X	X	X				X	
894	5-Hydroxy-4-octanone	X	X	X	X	X	X		X	X	X	X	
899	2-Heptanol	X				X			X			X	
921	Pentanoic acid, 2,4-dimethyl-, methyl ester	X	X	X	X	X	X	X	X	X	X	X	
925	Hexanoic acid, methyl ester		X		X	X	X	X			X	X	
927	alpha-Phellandrene	X		X	X				X			X	
929	2-Pentenoic acid, 4-methyl-, methyl ester							X				X	
935	alpha-Pinene	X			X	X						X	
935	5-Methylhexane-2,4-dione, enol	X	X	X	X	X	X	X	X	X	X	X	
939	3-Pentenoic acid, 4-methyl-, methyl ester	X	X	X	X	X	X	X	X	X	X	X	
940	S-Methyl 3-methylbutanethioate	X	X	X	X	X	X	X	X	X	X	X	
946	Pentanoic acid, 4-methyl	X	X	X	X	X			X	X		X	X

RI	Putative compound	3A18	3A41	3B40	3B44	W47	W62	W75.5	W75.6	W99	W126	W214	<i>S. lividans</i>
948	Pentanoic acid, 2-ethyl-, methyl ester		X	X	X	X		X	X		X	X	
951	Camphepane	X		X	X	X	X		X				
962	Benzaldehyde												X
965	Pentanoic acid, 2,4-dimethyl-, methyl ester	X	X		X	X	X	X	X	X	X	X	
970	1-Heptanol				X		X		X				
973	5-Methylhexane-2,4-dione, enol	X	X	X	X	X	X	X	X	X	X	X	
973	Dimethyl trisulfide	X	X	X	X	X	X	X	X	X	X	X	
974	2,4-Heptanedione	X	X		X	X		X			X	X	
976	Methyl 2-furoate			X			X						
980	beta-Pinene	X			X		X		X				
982	1,3- Cyclopentadiene, 1,3-bis(1-methylethyl)	X		X	X	X	X	X	X	X	X	X	
984	Pentane, 3-bromo							X		X			
987	3-Octanone	X	X		X	X	X	X	X		X	X	
989	2,4- Cycloheptadien-1-one, 2,6,6-trimethyl	X		X	X	X	X		X	X			X
989	Hexanoic acid, 5-methyl-, methyl ester	X	X	X	X	X	X	X	X	X	X	X	
991	3(2H)-Thiophenone, dihydro-2-methyl							X		X			
998	4-Methylhexanoic acid, methyl ester	X	X	X		X	X	X	X		X	X	
1019	Hexanoic acid, 2,4-dimethyl-, methyl ester, (2DL,4L)	X		X	X	X	X	X	X	X	X	X	
1023	p-Menth-8-ene, 3-methylene	X	X	X	X	X	X	X	X	X	X	X	
1026	Methyl heptanoate	X	X	X	X	X	X	X	X	X	X	X	
1028	p- Cymene								X				
1029	1-Hexanol, 2-ethyl							X					
1032	Limonene	X						X	X	X		X	
1037	1-Heptene, 6-methyl					X		X		X			
1044	Hexanoic acid, 2-ethyl-, methyl ester			X	X				X				X
1044	Cyclohexanol, 3,3,5-trimethyl-, trans							X	X	X			
1054	(R)-(-)-4-Methylhexanoic acid	X	X	X	X	X	X	X	X		X	X	X
1055	Thiophene, 2-methyl-5-propyl	X			X		X	X	X				
1061	7-Methyl-1,6-dioxaspiro[4.5]decane			X	X			X	X	X			X
1063	gamma-Terpinene	X		X	X	X	X	X	X	X	X	X	
1072	1-Octanol						X		X				
1089	Methyl 6-methyl heptanoate							X				X	
1094	Terpinolene	X		X	X	X	X	X	X	X	X	X	
1095	2-Nonanone		X	X		X	X				X		
1101	Benzoic acid, methyl ester		X	X	X	X	X		X	X		X	
1102	2-Nonanol							X					
1103	1,6-Octadien-3-ol, 3,7-dimethyl	X			X	X	X	X				X	
1125	Heptanoic acid, 2,6-dimethyl-, methyl ester		X	X	X	X			X	X	X	X	X
1127	Octanoic acid, methyl ester		X		X	X			X	X		X	
1132	Cyclohexane, 4-methyl-2-methylene-1-(1-methylethylidene)	X		X	X	X	X						
1138	1-Octene, 7-methyl						X		X			X	



RI	Putative compound	3A18	3A41	3B40	3B44	W47	W62	W75.5	W75.6	W99	W126	W214	<i>S. lividans</i>
1466	4,7-Methanoazulene, 1,2,3,4,5,6,7,8-octahydro-1,4,9,9-tetramethyl-, [1S-(1 $\alpha$ ,4 $\alpha$ ,7 $\alpha$ )]-	X	X	X	X	X	X	X	X	X	X	X	X
1471	1,2-Benzenediol, O-(4-butylbenzoyl)-O'-(isobutoxycarbonyl)	X		X	X	X	X	X	X	X	X	X	
1474	beta-Selinene	X	X	X	X	X	X	X	X	X	X	X	
1477	Cadina-1(10),6,8-triene	X	X	X	X	X	X	X	X	X	X	X	
1481	Zizaene	X	X	X	X	X	X	X	X	X	X	X	
1482	4,11-Epoxy-cis-eudesmane	X	X	X	X	X	X	X	X	X	X	X	
1489	Methyl 10-methyl-undecanoate	X	X	X	X	X	X	X	X	X	X	X	
1491	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1 $\alpha$ ,4a $\beta$ ,8aa)-	X	X	X	X	X	X	X	X	X	X	X	
1495	alpha-Murolene	X		X	X	X	X	X	X	X	X	X	
1499	Germacrene D	X		X	X	X	X	X	X	X	X	X	
1505	beta-Selinene	X	X	X	X	X	X	X	X	X	X	X	
1510	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, [1R-(1 $\alpha$ ,7 $\beta$ ,8aa)]-	X	X	X	X	X	X	X	X	X	X	X	
1514	Cubeb-11-ene		X		X	X	X		X	X			
1521	1H-Benzocyclohepten-7-ol, 2,3,4,4a,5,6,7,8-octahydro-1,1,4a,7-tetramethyl-, cis	X	X	X	X	X	X	X	X	X	X	X	
1523	Benzene, 1-methoxy-2-methyl		X			X				X			
1526	Dodecanoic acid, methyl ester			X						X			
1526	gamma-Bisabolene, (E)	X	X	X	X	X	X	X	X	X	X	X	
1528	Dihydroagarofuran, trans	X	X	X	X	X	X	X	X	X	X	X	
1530	4-Epicubebol	X	X	X	X	X	X	X	X	X	X	X	
1537	delta-Amorphene	X	X	X	X	X	X	X	X	X	X	X	
1541	Zonarene	X	X	X	X	X	X	X	X	X	X	X	
1548	Cedrene	X	X	X	X	X	X	X		X	X	X	
1553	alpha-Cadinene	X	X	X	X	X	X	X	X	X	X	X	
1560	alpha-Calacorene	X	X	X	X	X	X	X	X	X	X	X	
1563	2-Tetradecanone	X	X	X	X	X	X	X		X	X	X	
1568	alpha-Agarofuran	X	X	X	X	X	X	X		X	X	X	
1571	2-Tetradecanone	X	X	X	X	X	X	X	X	X	X	X	
1592	7-Caryophyllen-6-ol		X	X		X			X	X			
1596	Methyl 10-methyl-dodecanoate	X	X	X	X	X	X	X	X	X	X	X	
1606	2-Naphthalenemethanol, 2,3,4,4a,5,6,7,8-octahydro- $\alpha$ , $\alpha$ ,4a,8-tetramethyl-, [2R-(2 $\alpha$ ,4a $\beta$ ,8 $\beta$ )]-	X	X	X	X	X	X	X	X	X	X	X	
1646	Cubenol		X			X	X			X	X	X	
1658	2-Naphthalenemethanol, decahydro- $\alpha$ , $\alpha$ ,4a-trimethyl-8-methylene-, [2R-(2 $\alpha$ ,4a $\beta$ ,8 $\beta$ )]-	X	X	X	X	X	X	X	X	X	X	X	
1664	2-Pentadecanone	X	X	X	X	X	X	X	X	X	X	X	
1682	7-epi-alpha-Selinene	X	X	X			X	X	X	X	X	X	
1699	Heptadecane								X				
1699	Phenol, 2,4-di-t-butyl-6-nitro	X		X	X	X	X	X	X	X	X	X	
1717	2,2,7,7-Tetramethyltricyclo[6.2.1.0(1,6)]undec-4-en-3-one	X		X		X	X	X	X	X	X	X	
1890	Acetic acid, methoxy-, methyl ester	X	X							X	X	X	
1940	Cembrene			X						X			

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2038	Bicyclo[9.3.1]pentadeca-3,7-dien-12-ol, 4,8,12,15,15-pentamethyl-, [1R-(1R*,3E,7E,11R*,12R*)]	X	X	X		X	X		X	X		X	X