Supplementary information for the article:
Title:
Microbial terroir under post-harvest management: linking withering practices to grape microbiome and metabolome dynamics in Corvina grapes

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Supplementary information Table S1-a.

ANOVA comparison between Controlled (C) and Non-Controlled (NC) conditions for yeast and fungal (ITS) communities at the genus level. The tables report abundance values and statistical significance at T10, T20, and T30.

	T10_Non Contr		T10_Contr			
	Av	SD	Av	SD	P Value	
Aureobasidium	0,369829	0,047049	0,550778	0,056649	0,006547	**
Alternaria	0,16943	0,053482	0,089458	0,005637	0,030805	*
Cladosporium	0,158733	0,014068	0,074325	0,016036	0,001186	**
Starmerella	0,002353	0,001849	0,052544	0,014623	0,002067	**
Hanseniaspora	0,016662	0,0045	0,0652	0,021142	0,00885	**
Penicillium	0,018282	0,004907	0,002615	0,002652	0,004125	**
Filobasidium	0,037214	0,011686	0,038502	0,011982	0,4502	
Epicoccum	0,025706	0,013066	0,025653	0,007129	0,497688	
Metschnikowia	8,81E-05	4,76E-06	0,033437	0,020092	0,022621	*
Pithomyces	0,017137	0,004623	0,008016	0,001006	0,014431	*
Aspergillus	0,022677	0,003186	0,001911	0,001308	0,000237	**
Botrytis	0,004016	0,002451	0,014519	0,004411	0,011333	*

	T20_Non Contr		T20_Contr			
	Av	SD	Av	SD	P Value	
Aureobasidium	0,480901	0,038458	0,480733	0,072804	0,498229	
Cladosporium	0,129232	0,019299	0,088658	0,030034	0,017318	*
Alternaria	0,105439	0,02398	0,080425	0,017136	0,04715	*
Metschnikowia	0,021516	0,008771	0,033763	0,010203	0,038114	*
Aspergillus	0,027994	0,009873	0,002332	0,000442	0,000201	***
Epicoccum	0,049996	0,015829	0,058227	0,010536	0,180701	
Botrytis	0,014771	0,003461	0,015077	0,003896	0,449291	
Filobasidium	0,019466	0,002406	0,023044	0,006192	0,131417	
Pithomyces	0,026627	0,009406	0,016813	0,003965	0,031897	*
Hanseniaspora	0,047159	0,004141	0,045823	0,005954	0,345665	
Vishniacozyma	0,00209	0,000434	0,01448	0,002472	2,02E-06	***
Wallemia	0,012998	0,002816	0,02113	0,00509	0,007046	**

	T30_Non Contr		T30_Contr			
	Av	SD	Av	SD	P Value	
Aureobasidium	0,287592	0,02989	0,487842	0,028694	2,87E-06	**
Alternaria	0,055553	0,011283	0,168428	0,0197	1,34E-06	***
Cladosporium	0,06461	0,011752	0,069909	0,007873	0,227765	

Botrytis	0,265306	0,029575	0,024283	0,012445	1,75E-07	***
Starmerella	0,031101	0,003318	0,031598	0,005512	0,430784	
Penicillium	0,059654	0,005148	0,018287	0,002314	2,06E-07	***
Filobasidium	0,02707	0,004918	0,045736	0,006061	0,000331	***
Wallemia	0,051107	0,009834	0,02314	0,005979	0,0005	***
Epicoccum	0,020291	0,004684	0,040788	0,007654	0,000357	***
Metschnikowia	0,036525	0,013511	0,028044	0,006662	0,141848	
Aspergillus	0,021568	0,005504	0,002322	0,000727	6,78E-05	***
Hanseniaspora	0,018912	0,004382	0,002233	0,000338	3,65E-05	***
Pithomyces	0,005226	0,006219	0,020312	0,0022	0,000896	
Bettsia	0,01691	0,003016	0,000226	6,4E-05	2,32E-06	***

Supplementary information Table S1-b.

ANOVA comparison between Controlled (C) and Non-Controlled (NC) conditions for bacterial (16S) communities at the class and genus level. The tables report abundance values and statistical significance at T10, T20, and T30.

Genus	Time	T10-C mean	SD	T10-NC mean	T10-NC SD	p-val	signif
Prevotella	T10	0,000594907	4,31E-05	0,000161463	0,000168	0,039609	*
Brevundimonas	T10	0,000508638	3,9E-05	0,001035641	0,000122	0,011255	*
Bradyrhizobium	T10	0,000353657	6,11E-05	0,000116783	4,79E-06	0,020932	*
Acetobacter	T10	5,82881E-05	2,61E-06	3,4203E-05	8,28E-06	0,028221	*
Cupriavidus	T10	0,265948929	0,069952	0,430267172	0,407665	0,559019	
Pedobacter	T10	0,179837346	0,184188	0,179132928	0,00012	0,995316	
Sphingomonas	T10	0,097173089	0,126248	0,005478018	0,000892	0,335362	
Burkholderia	T10	0,094847656	0,078758	0,078140927	0,035819	0,761558	
Candidatus Phytoplasma	T10	0,063960675	0,089097	0,002319956	0,003121	0,353513	
Mesorhizobium	T10	0,04462555	0,056188	0,00632075	0,006616	0,358909	
Massilia	T10	0,04294671	0,057383	0,001052895	0,000696	0,333443	
Gluconobacter	T10	0,023660411	0,033142	2,00288E-05	2,83E-05	0,34208	
Ralstonia	T10	0,019449474	0,026655	0,010673789	0,000139	0,626037	
Bacillus	T10	0,016294505	0,021139	0,000559882	0,000511	0,326282	
Rhizobium	T10	0,014248477	0,019283	0,002244137	0,00306	0,393864	

Genus	Time	T20-C mean	SD	T20-NC mean	T10-NC SD	p-val	signif
Undibacterium	T20	0,386620036	0,546763	0,159029268	0,352888	0,582545	
Burkholderia	T20	0,302397816	0,427208	0,35907989	0,356396	0,868765	
Cupriavidus	T20	0,182791769	0,089835	0,130950972	0,170509	0,67273	
Candidatus Phytoplasma	T20	0,026706391	0,019572	0,058003691	0,050631	0,402083	
Sphingomonas	T20	0,022222727	0,00456	0,07771273	0,086294	0,381269	
Candidatus Moranella	T20	0,010091262	0,014207	0,006367745	0,009243	0,7259	
Gluconobacter	T20	0,008365536	0,011831	0,03338777	0,074275	0,62018	
Mesorhizobium	T20	0,007489709	0,010337	0,05454515	0,061957	0,318096	
Massilia	T20	0,004955361	0,001392	0,039670343	0,060243	0,423394	
Rhodococcus	T20	0,003566918	0,004943	0,002428606	0,003198	0,757195	

Genus	Time	T30-C mean	SD	T30-NC mean	T10-NC SD	p-val	signif
Brachybacterium	T30	0,000202263	0,000208	0,000877019	0,000271	0,02948	*
Cupriavidus	T30	0,276618758	0,211726	0,304406648	0,253111	0,891301	

Undibacterium	T30	0,232819658	0,465558	0,010385413	0,012293	0,49498	
Burkholderia	T30	0,201701297	0,176227	0,12113735	0,067139	0,5211	
Mesorhizobium	T30	0,047544223	0,032792	0,022118173	0,027717	0,364509	
Sphingomonas	T30	0,034621072	0,019404	0,054713173	0,056624	0,609814	
Candidatus Phytoplasma	T30	0,017104937	0,029616	0,165062709	0,156865	0,241433	
Pedobacter	T30	0,016130635	0,021186	0,009364641	0,009293	0,650353	
Ralstonia	T30	0,015839566	0,015437	0,026300172	0,02939	0,622892	
Massilia	T30	0,015432243	0,012841	0,018642379	0,024377	0,852857	
Hymenobacter	T30	0,011599206	0,010335	0,012348172	0,013194	0,942223	

Class	**Time**	**T10_NC**		**T10_C**			**signif**
		Av	SD	Av	SD	pval	
Betaproteobacteria	T10	0,8837	0,0696	0,85697	0,0469	**0,194087**	
Sphingobacteriia	T10	0,0751	0,0718	0,059660839	0,047863	**0,508068**	
Alphaproteobacteria	T10	0,0158	0,0081	0,026	0,0097	**0,252471**	
Mollicutes	T10	0,0090	0,0134	0,029956475	0,050639	**0,478179**	
Gammaproteobacteria	T10	0,0033	0,0026	0,021821757	0,021693	**0,185743**	
Bacilli	T10	0,0032	0,0035	0,01101973	0,007386	**0,410747**	
Cytophagia	T10	0,0020	0,0003	0,014190105	0,025589	**0,128829**	
Actinobacteria	T10	0,0028	0,0005	0,008877426	0,008606	**0,255215**	
Clostridia	T10	0,0007	0,0000	0,00505419	0,007229	**0,316831**	

Class	**Time**	**T20_Non Contr**		**T20_Contr**			**signif**
		Av	SD	Av	SD	pval	
Betaproteobacteria	T20	0,732143643	0,086224	0,7748	0,1253	**0,532708**	
Alphaproteobacteria	T20	0,115190403	0,098517	0,1436	0,1261	**0,686349**	
Mollicutes	T20	0,050172905	0,048329	0,0248	0,0133	**0,226583**	
Gammaproteobacteria	T20	0,041140636	0,066906	0,0185	0,0099	**0,409953**	
Bacilli	T20	0,015958	0,010772	0,0076	0,0030	**0,090635**	
Actinobacteria	T20	0,015121189	0,006317	0,0092	0,0023	**0,053645**	
Cytophagia	T20	0,007050417	0,0036	0,0072	0,0040	**0,953665**	
Clostridia	T20	0,006659588	0,002577	0,0033	0,0012	**0,01464**	*
Sphingobacteriia	T20	0,0020	0,0010	0,0027	0,0024	**0,554843**	

Class	**Time**	**T30_Non Contr**		**T30_Contr**			**signif**
		Av	SD	Av	SD	pval	
Betaproteobacteria	T30	0,780292959	0,110678	0,737969499	0,117587	**0,535313**	
Alphaproteobacteria	T30	0,092047488	0,0775	0,118931685	0,091625	**0,595219**	
Mollicutes	T30	0,031053279	0,034883	0,024239545	0,032881	**0,734936**	
Gammaproteobacteria	T30	0,019807338	0,012386	0,040285394	0,039164	**0,250031**	
Cytophagia	T30	0,018855982	0,033594	0,020533404	0,017714	**0,915985**	

Bacilli	T30	0,016641142	0,005673	0,011184301	0,003638	**0,075463**	
Sphingobacteriia	T30	0,01300698	0,009317	0,008309039	0,007775	**0,365311**	
Actinobacteria	T30	0,008037668	0,004687	0,012017664	0,004606	**0,168759**	
Clostridia	T30	0,005597928	0,002519	0,004526798	0,001412	**0,384918**	
Chitinophagia	T30	0,004020316	0,001906	0,009513421	0,004064	**0,013396**	*

Supplementary information - Table S2-a

Raw data of co-occurrences between microbial taxa and metabolites for yeast and fungal community. Ori-score , p-Val and Interaction type are displayed. Co-occurrences between fungal taxa themselves are also displayed, whereas correlations between different metabolites are not included.

		oriScore	pval	Interaction Type	name
aliphatic-alcohols	Armillaria	0,60815837	0,000906	copresence	aliphatic-alcohols->Armillaria
aliphatic-alcohols	d-viniferin	0,948370754	0,000489	copresence	aliphatic-alcohols->d-viniferina
aliphatic-alcohols	furans	0,928571429	2,97E-07	copresence	aliphatic-alcohols->furans
aliphatic-alcohols	Hannaella	0,681847335	0,000522	mutualExclusion	aliphatic-alcohols->Hannaella
aliphatic-alcohols	Pseudozyma	-0,939808319	1,55E-15	mutualExclusion	aliphatic-alcohols->Pseudozyma
aliphatic-alcohols	Pyrenophora	0,682908105	0,000654	mutualExclusion	aliphatic-alcohols->Pyrenophora
aliphatic-alcohols	trans-e-viniferin	0,107493212	0,001423	copresence	aliphatic-alcohols->trans-e-viniferina
aliphatic-alcohols	trans-piceide	0,911722051	4,45E-07	copresence	aliphatic-alcohols->trans-piceide
Allomyces	Cladonia	0,956521739	1E-10	copresence	Allomyces->Cladonia
Allomyces	Debaryomyces	-0,894648119	1,61E-14	mutualExclusion	Allomyces->Debaryomyces
Allomyces	Diaporthe	0,234457369	1E-10	copresence	Allomyces->Diaporthe
Allomyces	Diplodia	-0,385939418	4,78E-05	mutualExclusion	Allomyces->Diplodia
Allomyces	Sclerotinia	-0,304347826	8,31E-07	mutualExclusion	Allomyces->Sclerotinia
Alpova	Eutypella	0,759616481	0,000206	mutualExclusion	Alpova->Eutypella
Alpova	Metschnikowia	0,906326967	5,25E-06	copresence	Alpova->Metschnikowia
Alpova	Phaeosphaeria	0,682908105	1E-10	mutualExclusion	Alpova->Phaeosphaeria
Alternaria	Fusarium	0,928571429	0,000525	copresence	Alternaria->Fusarium
Alternaria	Stemphylium	0,07159568	8,2E-09	copresence	Alternaria->Stemphylium
Armillaria	Hannaella	0,682908105	1E-10	mutualExclusion	Armillaria->Hannaella
Aspergillus	Allomyces	0,951494665	2,37E-06	mutualExclusion	Aspergillus->Allomyces

Aspergillus	Bjerkandera	0,153595629	1E-10	copresence	Aspergillus->Bjerkandera
Aspergillus	Schizopora	0,410116318	3,23E-10	copresence	Aspergillus->Schizopora
benzenoids	aliphatic-alcohols	0,60815837	7,2E-05	copresence	benzenoids->aliphatic-alcohols
benzenoids	furans	0,60815837	4,9E-05	copresence	benzenoids->furans
benzenoids	Hannaella	0,664031194	0,001166	mutualExclusion	benzenoids->Hannaella
benzenoids	monoterpenes	0,964285714	1,53E-07	copresence	benzenoids->monoterpenes
benzenoids	trans-e-viniferin	0,925699193	3,6E-05	copresence	benzenoids->trans-e-viniferina
Bettsia	Cladonia	0,559615788	7,9E-08	mutualExclusion	Bettsia->Cladonia
Bipolaris	Alpova	0,784356367	3,87E-05	mutualExclusion	Bipolaris->Alpova
Bipolaris	Erysiphe	0,242633297	0,000323	copresence	Bipolaris->Erysiphe
Bipolaris	Fusarium	0,988602373	1E-10	copresence	Bipolaris->Fusarium
Bipolaris	Malassezia	0,785714286	0,001693	copresence	Bipolaris->Malassezia
Bipolaris	Phoma	1,078992208	0,000605	copresence	Bipolaris->Phoma
Bipolaris	Sporidiobolus	0,142847413	0,00164	copresence	Bipolaris->Sporidiobolus
Bipolaris	Sporisorium	0,976327	0,001452	copresence	Bipolaris->Sporisorium
Bipolaris	Ustilago	0,818918499	6,15E-05	copresence	Bipolaris->Ustilago
Bjerkandera	Allomyces	1	1E-10	mutualExclusion	Bjerkandera->Allomyces
Bjerkandera	Cladonia	1	1E-10	mutualExclusion	Bjerkandera->Cladonia
Bjerkandera	Ganoderma	0,682908105	6,87E-06	copresence	Bjerkandera->Ganoderma
Botrytis	Ceriporia	0,559615788	7,43E-06	mutualExclusion	Botrytis->Ceriporia
Botrytis	Eutypella	0,484866053	0,001155	mutualExclusion	Botrytis->Eutypella
Botrytis	Monilinia	0,60815837	4,25E-07	copresence	Botrytis->Monilinia
Botrytis	Penicillium	0,60815837	5,93E-05	copresence	Botrytis->Penicillium
Botrytis	Wallemia	0,410116318	0,000496	copresence	Botrytis->Wallemia
C-6-aldehydes	Diaporthe	0,793610873	2,43E-05	mutualExclusion	C-6-aldehydes->Diaporthe

Camarosporium	Allomyces	-0,616385412	1,07E-06	mutualExclusion	Camarosporium->Allomyces
Camarosporium	Cladosporium	0,60815837	2,78E-12	copresence	Camarosporium->Cladosporium
Camarosporium	Diaporthe	-0,858753861	1E-10	mutualExclusion	Camarosporium->Diaporthe
Candida	Botryosphaeria	1,078992208	1E-10	copresence	Candida->Botryosphaeria
Candida	Trametes	-0,751487112	2,13E-08	mutualExclusion	Candida->Trametes
Ceriporia	Gloeotinia	1	1E-10	mutualExclusion	Ceriporia->Gloeotinia
Ceriporia	Lasiodiplodia	0,892551311	2,42E-07	mutualExclusion	Ceriporia->Lasiodiplodia
Ceriporia	Monilinia	1	1E-10	mutualExclusion	Ceriporia->Monilinia
Ceriporia	Sclerotinia	-0,555905504	1E-10	mutualExclusion	Ceriporia->Sclerotinia
Ceriporia	Wallemia	-0,453163484	0,001334	mutualExclusion	Ceriporia->Wallemia
Cladonia	Debaryomyces	-0,894648119	8,37E-10	mutualExclusion	Cladonia->Debaryomyces
Cladonia	Ganoderma	0,828963942	5,68E-06	mutualExclusion	Cladonia->Ganoderma
Curvibasidium	Gloeotinia	-0,691682377	0,001616	mutualExclusion	Curvibasidium->Gloeotinia
Dioszegia	Diplodia	-0,83492215	1,1E-09	mutualExclusion	Dioszegia->Diplodia
d-viniferin	furans	0,806200421	2,15E-05	copresence	d-viniferina->furans
d-viniferin	trans-piceide	0,857563441	7,71E-05	copresence	d-viniferina->trans-piceide
d-viniferin	trans-resveratrol	0,991031209	1,3E-11	copresence	d-viniferina->trans-resveratrolo
Eremascus	Bettsia	0,962542616	0,000298	copresence	Eremascus->Bettsia
Eremascus	Cladonia	0,75765784	8,46E-05	mutualExclusion	Eremascus->Cladonia
Eremascus	Eutypella	0,75765784	6,61E-06	mutualExclusion	Eremascus->Eutypella
Eremascus	Penicillium	0,806200421	1E-10	copresence	Eremascus->Penicillium
Eremascus	Wallemia	0,60815837	1,42E-11	copresence	Eremascus->Wallemia

Eutypella	Armillaria	-0,858753861	1E-10	mutualExclusion	Eutypella->Armillaria
Eutypella	Hannaella	0,955699891	1E-10	copresence	Eutypella->Hannaella
Eutypella	Lasiodiplodia	0,484866053	3,14E-06	mutualExclusion	Eutypella->Lasiodiplodia
Eutypella	Sclerotinia	-0,304347826	7,13E-09	mutualExclusion	Eutypella->Sclerotinia
Exserohilum	Cercospora	0,60815837	0,000682	copresence	Exserohilum->Cercospora
Exserohilum	Rhodotorula	0,223278285	0,000547	copresence	Exserohilum->Rhodotorula
furans	Kabatiella	0,034270513	0,000141	copresence	furans->Kabatiella
furans	monoterpenes	0,60815837	2,53E-05	copresence	furans->monoterpenes
furans->trans-e	trans-e-viniferin	0,857142857	0,000801	copresence	furans->trans-e-viniferina
furans->trans	trans-piceide	0,857142857	0,001356	copresence	furans->trans-piceide
Fusarium	Didymella	0,5	0,000616	copresence	Fusarium->Didymella
Gymnopus	Allomyces	0,923520968	0,000918	mutualExclusion	Gymnopus->Allomyces
Gymnopus	Curvularia	0,266198157	0,001267	copresence	Gymnopus->Curvularia
Gymnopus	Schizopora	0,410116318	3,28E-08	copresence	Gymnopus->Schizopora
Hymenoscyphus	Gloeotinia	0,682908105	1E-10	mutualExclusion	Hymenoscyphus->Gloeotinia
Hyphodermella	Pseudozyma	0,918956212	1,6E-08	copresence	Hyphodermella->Pseudozyma
Hypholoma	Meliniomyces	0,603541842	0,000123	mutualExclusion	Hypholoma->Meliniomyces
Hypholoma	Noosia	-0,716132815	0,00079	mutualExclusion	Hypholoma->Noosia
Hypholoma	Sordaria	-0,937910412	0,000139	mutualExclusion	Hypholoma->Sordaria
Kabatiella	monoterpenes	0,285714286	0,000971	copresence	Kabatiella->monoterpenes
Lachancea	Curvibasidium	0,928571429	0,000194	copresence	Lachancea->Curvibasidium
Lasiodiplodia	Gloeotinia	0,230581994	2,83E-05	copresence	Lasiodiplodia->Gloeotinia
Lasiodiplodia	Hymenoscyphus	-0,816115125	7,73E-05	mutualExclusion	Lasiodiplodia->Hymenoscyphus

Lasiodiplodia	Phaeosphaeriopsis	0,484866053	0,001636	mutualExclusion	Lasiodiplodia->Phaeosphaeriopsis
Malassezia	Erysiphe	0,75	0,000225	copresence	Malassezia->Erysiphe
Malassezia	Ustilago	0,101933138	2,7E-08	copresence	Malassezia->Ustilago
Metschnikowia	Botryosphaeria	0,557607951	1E-10	copresence	Metschnikowia->Botryosphaeria
Metschnikowia	Candida	0,648467572	1E-10	copresence	Metschnikowia->Candida
Metschnikowia	d-viniferin	0,221060766	1,57E-10	copresence	Metschnikowia->d-viniferina
Metschnikowia	Fusarium	0,60815837	0,000765	mutualExclusion	Metschnikowia->Fusarium
Metschnikowia	Gymnopus	-0,727670102	0,000605	mutualExclusion	Metschnikowia->Gymnopus
Metschnikowia	Hannaella	-0,669893845	8,27E-05	mutualExclusion	Metschnikowia->Hannaella
Metschnikowia	trans-resveratrol	0,535714286	3,79E-09	copresence	Metschnikowia->trans-resveratrolo
Metschnikowia	Wallemia	0,642857143	1,97E-09	copresence	Metschnikowia->Wallemia
Microsphaeropsis	Verrucocladosporium	0,972940769	1,05E-08	mutualExclusion	Microsphaeropsis->Verrucocladosporium
Monilinia	Hannaella	-0,272906564	9,3E-05	mutualExclusion	Monilinia->Hannaella
Monilinia	Phaeosphaeriopsis	0,931450759	0,000151	mutualExclusion	Monilinia->Phaeosphaeriopsis
monoterpenes	Hannaella	0,559615788	0,000479	mutualExclusion	monoterpenes->Hannaella
Naganishia	Alpova	-0,383284524	1E-10	mutualExclusion	Naganishia->Alpova
Naganishia	Cladonia	0,949069856	1,24E-10	mutualExclusion	Naganishia->Cladonia
Naganishia	Diaporthe	-0,684782609	1E-10	mutualExclusion	Naganishia->Diaporthe
Naganishia	Gymnopus	0,292499827	0,001072	copresence	Naganishia->Gymnopus
Naganishia	Hyphodermella	0,866921447	0,001034	copresence	Naganishia->Hyphodermella
Nigrospora	Aureobasidium	0,682908105	1,97E-06	copresence	Nigrospora->Aureobasidium
Nigrospora	Kabatiella	0,571428571	0,001841	copresence	Nigrospora->Kabatiella
Noosia	Armillaria	-0,858753861	1E-10	mutualExclusion	Noosia->Armillaria

Noosia	Hannaella	0,240612085	1E-10	copresence	Noosia->Hannaella
Noosia	Polyporus	-0,392723014	0,001797	mutualExclusion	Noosia->Polyporus
Noosia	Pyrenophora	0,944507379	6,08E-13	copresence	Noosia->Pyrenophora
Noosia	trans-piceide	-0,788110406	0,000736	mutualExclusion	Noosia->trans-piceide
norisoprenoids	monoterpenes	0,061836303	1,03E-05	copresence	norisoprenoids->monoterpenes
Parastagonospora	Gloeotinia	1	1E-10	mutualExclusion	Parastagonospora->Gloeotinia
Parastagonospora	Verrucocladosporium	-0,695892786	1E-10	mutualExclusion	Parastagonospora->Verrucocladosporium
Penicillium	Bettsia	0,195058074	0,000441	copresence	Penicillium->Bettsia
Penicillium->trans	trans-resveratrol	0,410116318	0,001984	copresence	Penicillium->trans-resveratrolo
Peniophora	Parastagonospora	0,951201753	1,25E-09	copresence	Peniophora->Parastagonospora
Periconia	Sclerotinia	0,559615788	0,0012	mutualExclusion	Periconia->Sclerotinia
Pezicula	Botryosphaeria	-0,715377758	0,00033	mutualExclusion	Pezicula->Botryosphaeria
Pezicula	Candida	0,559615788	3,71E-06	mutualExclusion	Pezicula->Candida
Pezicula	Metschnikowia	-0,374352443	0,000882	mutualExclusion	Pezicula->Metschnikowia
Phaeosphaeria	Didymella	0,60815837	0,001839	copresence	Phaeosphaeria->Didymella
Phaeosphaeria	Pithomyces	0,60815837	0,001074	copresence	Phaeosphaeria->Pithomyces
Phaeosphaeria	Stemphylium	0,327133281	0,000491	copresence	Phaeosphaeria->Stemphylium
Phaeosphaeriopsis	Armillaria	0,682908105	1E-10	mutualExclusion	Phaeosphaeriopsis->Armillaria
Phaeosphaeriopsis	Sclerotinia	0,931450759	1,06E-06	mutualExclusion	Phaeosphaeriopsis->Sclerotinia
Phlebia	Ceriporia	0,806899439	0,002008	copresence	Phlebia->Ceriporia
Phoma	Cladosporium	0,75	0,000117	copresence	Phoma->Cladosporium
Phoma	Pithomyces	0,928571429	0,000217	copresence	Phoma->Pithomyces
Phoma	Sporidiobolus	1,078992208	0,001086	copresence	Phoma->Sporidiobolus

Phoma	Stemphylium	0,410116318	0,000448	copresence	Phoma->Stemphylium
Pithomyces	Didymella	0,926055004	2,6E-05	copresence	Pithomyces->Didymella
Pithomyces	Epicoccum	0,785714286	0,002129	copresence	Pithomyces->Epicoccum
Pithomyces	Stemphylium	0,60815837	6,81E-05	copresence	Pithomyces->Stemphylium
Podosphaera	trans-piceide	-0,963624112	2,06E-06	mutualExclusion	Podosphaera->trans-piceide
Podosphaera	Wallemia	-0,450430299	6,57E-07	mutualExclusion	Podosphaera->Wallemia
Psathyrella	Metschnikowia	0,15682214	1E-10	copresence	Psathyrella->Metschnikowia
Psathyrella	monoterpenes	0,95499371	0,000872	copresence	Psathyrella->monoterpenes
Psathyrella	Noosia	-0,704829329	0,001882	mutualExclusion	Psathyrella->Noosia
Psathyrella	Phaeosphaeriopsis	0,559615788	0,001 58	mutualExclusion	Psathyrella->Phaeosphaeriopsis
Pseudozyma	Botryosphaeria	-0,563636364	0,001969	mutualExclusion	Pseudozyma->Botryosphaeria
Pseudozyma	Hannaella	0,906999488	5,03E-07	copresence	Pseudozyma->Hannaella
Pyrenophora	Armillaria	0,881626462	2,29E-07	mutualExclusion	Pyrenophora->Armillaria
Pyrenophora	Pseudozyma	0,815508641	1E-10	copresence	Pyrenophora->Pseudozyma
Rhizoctonia	Pithomyces	0,785714286	0,000805	copresence	Rhizoctonia->Pithomyces
Saturnispora	Diplodia	1	1E-10	mutualExclusion	Saturnispora->Diplodia
Saturnispora	Microsphaeropsis	0,906527352	3,84E-08	copresence	Saturnispora->Microsphaeropsis
Saturnispora	Sclerotinia	-0,609094774	1E-10	mutualExclusion	Saturnispora->Sclerotinia
Saturnispora	Verrucocladosporium	-0,684782609	1E-10	mutualExclusion	Saturnispora->Verrucocladosporium
Sordaria	Armillaria	0,60815837	0,001 26	mutualExclusion	Sordaria->Armillaria
Sporidiobolus	Fusarium	0,852929039	1,71E-07	copresence	Sporidiobolus->Fusarium
Sporidiobolus	Hannaella	0,807813166	0,000844	copresence	Sporidiobolus->Hannaella

Sporidiobolus	Metschnikowia	-0,892857143	6,34E-05	mutualExclusion	Sporidiobolus->Metschnikowia
Sporisorium	Alpova	-0,530655629	1E-10	mutualExclusion	Sporisorium->Alpova
Sporisorium	Alternaria	0,81843578	3,46E-06	copresence	Sporisorium->Alternaria
Sporisorium	Botryosphaeria	-0,795242772	6,55E-07	mutualExclusion	Sporisorium->Botryosphaeria
Sporisorium	Diaporthe	-0,413043478	4,05E-05	mutualExclusion	Sporisorium->Diaporthe
Sporisorium	Fusarium	0,987579923	4,6E-11	copresence	Sporisorium->Fusarium
Sporisorium	Malassezia	0,906326967	3,63E-08	copresence	Sporisorium->Malassezia
Sporisorium	Metschnikowia	0,559615788	6,12E-08	mutualExclusion	Sporisorium->Metschnikowia
Sporisorium	Neofusicoccum	0,559615788	0,000902	mutualExclusion	Sporisorium->Neofusicoccum
Sporisorium	Phaeobotryon	-0,440490767	0,000155	mutualExclusion	Sporisorium->Phaeobotryon
Sporisorium	Psathyrella	-0,795242772	0,000131	mutualExclusion	Sporisorium->Psathyrella
Sporisorium	Stemphylium	0,906326967	8,21E-07	copresence	Sporisorium->Stemphylium
Stemphylium	Didymella	0,785714286	0,001732	copresence	Stemphylium->Didymella
Trametes	Botryosphaeria	-0,945454545	2,72E-06	mutualExclusion	Trametes->Botryosphaeria
Trametes	Meliniomyces	0,39934783	1E-10	copresence	Trametes->Meliniomyces
Trametes	Ustilago	0,892112907	5,26E-10	copresence	Trametes->Ustilago
trans-e-viniferin->trans	trans-resveratrol	0,747889314	6,1E-07	copresence	trans-e-viniferina->trans-resveratrolo
trans-piceatannol	trans-resveratrol	0,642857143	0,000187	copresence	trans-piceatannolo->trans-resveratrolo
trans-piceide	Pyrenophora	-0,951285352	2,83E-07	mutualExclusion	trans-piceide->Pyrenophora
trans-piceide	trans-e-viniferin	0,928571429	0,000846	copresence	trans-piceide->trans-e-viniferina
Wallemia	Noosia	0,559615788	8,47E-06	mutualExclusion	Wallemia->Noosia
Wallemia	Penicillium	0,262827372	0,001651	copresence	Wallemia->Penicillium

Wallemia	Pseudozyma	-0,846881215	0,001946	mutualExclusion	Wallemia->Pseudozyma
Wallemia	trans-e-viniferin	0,826116401	7,38E-05	copresence	Wallemia->trans-e-viniferina
Armillaria	aliphatic-alcohols	0,60815837	0,000906	copresence	aliphatic-alcohols->Armillaria
d-viniferin	aliphatic-alcohols	0,948370754	0,000489	copresence	aliphatic-alcohols->d-viniferina
furans	aliphatic-alcohols	0,928571429	2,97E-07	copresence	aliphatic-alcohols->furans
Hannaella	aliphatic-alcohols	0,681847335	0,000522	mutualExclusion	aliphatic-alcohols->Hannaella
Pseudozyma	aliphatic-alcohols	-0,939808319	1,55E-15	mutualExclusion	aliphatic-alcohols->Pseudozyma
Pyrenophora	aliphatic-alcohols	0,682908105	0,000654	mutualExclusion	aliphatic-alcohols->Pyrenophora
trans-e-viniferin	aliphatic-alcohols	0,107493212	0,001423	copresence	aliphatic-alcohols->trans-e-viniferina
trans-piceide	aliphatic-alcohols	0,911722051	4,45E-07	copresence	aliphatic-alcohols->trans-piceide
Cladonia	Allomyces	0,956521739	1E-10	copresence	Allomyces->Cladonia
Debaryomyces	Allomyces	-0,894648119	1,61E-14	mutualExclusion	Allomyces->Debaryomyces
Diaporthe	Allomyces	0,234457369	1E-10	copresence	Allomyces->Diaporthe
Diplodia	Allomyces	-0,385939418	4,78E-05	mutualExclusion	Allomyces->Diplodia
Sclerotinia	Allomyces	-0,304347826	8,31E-07	mutualExclusion	Allomyces->Sclerotinia
Eutypella	Alpova	0,759616481	0,000206	mutualExclusion	Alpova->Eutypella
Metschnikowia	Alpova	0,906326967	5,25E-06	copresence	Alpova->Metschnikowia
Phaeosphaeria	Alpova	0,682908105	1E-10	mutualExclusion	Alpova->Phaeosphaeria
Fusarium	Alternaria	0,928571429	0,000525	copresence	Alternaria->Fusarium
Stemphylium	Alternaria	0,07159568	8,2E-09	copresence	Alternaria->Stemphylium
Hannaella	Armillaria	0,682908105	1E-10	mutualExclusion	Armillaria->Hannaella
Allomyces	Aspergillus	0,951494665	2,37E-06	mutualExclusion	Aspergillus->Allomyces
Bjerkandera	Aspergillus	0,153595629	1E-10	copresence	Aspergillus->Bjerkandera

Schizopora	Aspergillus	0,410116318	3,23E-10	copresence	Aspergillus->Schizopora
aliphatic-alcohols	benzenoids	0,60815837	7,2E-05	copresence	benzenoids->aliphatic-alcohols
furans	benzenoids	0,60815837	4,9E-05	copresence	benzenoids->furans
Hannaella	benzenoids	0,664031194	0,001166	mutualExclusion	benzenoids->Hannaella
monoterpenes	benzenoids	0,964285714	1,53E-07	copresence	benzenoids->monoterpenes
trans-e-viniferin	benzenoids	0,925699193	3,6E-05	copresence	benzenoids->trans-e-viniferina
Cladonia	Bettsia	0,559615788	7,9E-08	mutualExclusion	Bettsia->Cladonia
Alpova	Bipolaris	0,784356367	3,87E-05	mutualExclusion	Bipolaris->Alpova
Erysiphe	Bipolaris	0,242633297	0,000323	copresence	Bipolaris->Erysiphe
Fusarium	Bipolaris	0,988602373	1E-10	copresence	Bipolaris->Fusarium
Malassezia	Bipolaris	0,785714286	0,001693	copresence	Bipolaris->Malassezia
Phoma	Bipolaris	1,078992208	0,000605	copresence	Bipolaris->Phoma
Sporidiobolus	Bipolaris	0,142847413	0,00164	copresence	Bipolaris->Sporidiobolus
Sporisorium	Bipolaris	0,976327	0,001452	copresence	Bipolaris->Sporisorium
Ustilago	Bipolaris	0,818918499	6,15E-05	copresence	Bipolaris->Ustilago
Allomyces	Bjerkandera	1	1E-10	mutualExclusion	Bjerkandera->Allomyces
Cladonia	Bjerkandera	1	1E-10	mutualExclusion	Bjerkandera->Cladonia
Ganoderma	Bjerkandera	0,682908105	6,87E-06	copresence	Bjerkandera->Ganoderma
Ceriporia	Botrytis	0,559615788	7,43E-06	mutualExclusion	Botrytis->Ceriporia
Eutypella	Botrytis	0,484866053	0,001155	mutualExclusion	Botrytis->Eutypella
Monilinia	Botrytis	0,60815837	4,25E-07	copresence	Botrytis->Monilinia
Penicillium	Botrytis	0,60815837	5,93E-05	copresence	Botrytis->Penicillium
Wallemia	Botrytis	0,410116318	0,000496	copresence	Botrytis->Wallemia
Diaporthe	C-6-aldehydes	0,793610873	2,43E-05	mutualExclusion	C-6-aldehydes->Diaporthe
Allomyces	Camarosporium	-0,616385412	1,07E-06	mutualExclusion	Camarosporium->Allomyces

Cladosporium	Camarosporium	0,60815837	2,78E-12	copresence	Camarosporium->Cladosporium
Diaporthe	Camarosporium	-0,858753861	1E-10	mutualExclusion	Camarosporium->Diaporthe
Botryosphaeria	Candida	1,078992208	1E-10	copresence	Candida->Botryosphaeria
Trametes	Candida	-0,751487112	2,13E-08	mutualExclusion	Candida->Trametes
Gloeotinia	Ceriporia	1	1E-10	mutualExclusion	Ceriporia->Gloeotinia
Lasiodiplodia	Ceriporia	0,892551311	2,42E-07	mutualExclusion	Ceriporia->Lasiodiplodia
Monilinia	Ceriporia	1	1E-10	mutualExclusion	Ceriporia->Monilinia
Sclerotinia	Ceriporia	-0,555905504	1E-10	mutualExclusion	Ceriporia->Sclerotinia
Wallemia	Ceriporia	-0,453163484	0,001334	mutualExclusion	Ceriporia->Wallemia
Debaryomyces	Cladonia	-0,894648119	8,37E-10	mutualExclusion	Cladonia->Debaryomyces
Ganoderma	Cladonia	0,828963942	5,68E-06	mutualExclusion	Cladonia->Ganoderma
Gloeotinia	Curvibasidium	-0,691682377	0,001616	mutualExclusion	Curvibasidium->Gloeotinia
Diplodia	Dioszegia	-0,83492215	1,1E-09	mutualExclusion	Dioszegia->Diplodia
furans	d-viniferin	0,806200421	2,15E-05	copresence	d-viniferina->furans
trans-piceide	d-viniferin	0,857563441	7,71E-05	copresence	d-viniferina->trans-piceide
trans-resveratrol	d-viniferin	0,991031209	1,3E-11	copresence	d-viniferina->trans-resveratrolo
Bettsia	Eremascus	0,962542616	0,000298	copresence	Eremascus->Bettsia
Cladonia	Eremascus	0,75765784	8,46E-05	mutualExclusion	Eremascus->Cladonia
Eutypella	Eremascus	0,75765784	6,61E-06	mutualExclusion	Eremascus->Eutypella
Penicillium	Eremascus	0,806200421	1E-10	copresence	Eremascus->Penicillium
Wallemia	Eremascus	0,60815837	1,42E-11	copresence	Eremascus->Wallemia
Armillaria	Eutypella	-0,858753861	1E-10	mutualExclusion	Eutypella->Armillaria

Hannaella	Eutypella	0,955699891	1E-10	copresence	Eutypella->Hannaella
Lasiodiplodia	Eutypella	0,484866053	3,14E-06	mutualExclusion	Eutypella->Lasiodiplodia
Sclerotinia	Eutypella	-0,304347826	7,13E-09	mutualExclusion	Eutypella->Sclerotinia
Cercospora	Exserohilum	0,60815837	0,000682	copresence	Exserohilum->Cercospora
Rhodotorula	Exserohilum	0,223278285	0,000547	copresence	Exserohilum->Rhodotorula
Kabatiella	furans	0,034270513	0,000141	copresence	furans->Kabatiella
monoterpenes	furans	0,60815837	2,53E-05	copresence	furans->monoterpenes
trans-e-viniferin	furans->trans-e	0,857142857	0,000801	copresence	furans->trans-e-viniferina
trans-piceide	furans->trans	0,857142857	0,001356	copresence	furans->trans-piceide
Didymella	Fusarium	0,5	0,000616	copresence	Fusarium->Didymella
Allomyces	Gymnopus	0,923520968	0,000918	mutualExclusion	Gymnopus->Allomyces
Curvularia	Gymnopus	0,266198157	0,001267	copresence	Gymnopus->Curvularia
Schizopora	Gymnopus	0,410116318	3,28E-08	copresence	Gymnopus->Schizopora
Gloeotinia	Hymenoscyphus	0,682908105	1E-10	mutualExclusion	Hymenoscyphus->Gloeotinia
Pseudozyma	Hyphodermella	0,918956212	1,6E-08	copresence	Hyphodermella->Pseudozyma
Meliniomyces	Hypholoma	0,603541842	0,000123	mutualExclusion	Hypholoma->Meliniomyces
Noosia	Hypholoma	-0,716132815	0,00079	mutualExclusion	Hypholoma->Noosia
Sordaria	Hypholoma	-0,937910412	0,000139	mutualExclusion	Hypholoma->Sordaria
monoterpenes	Kabatiella	0,285714286	0,000971	copresence	Kabatiella->monoterpenes
Curvibasidium	Lachancea	0,928571429	0,000194	copresence	Lachancea->Curvibasidium
Gloeotinia	Lasiodiplodia	0,230581994	2,83E-05	copresence	Lasiodiplodia->Gloeotinia
Hymenoscyphus	Lasiodiplodia	-0,816115125	7,73E-05	mutualExclusion	Lasiodiplodia->Hymenoscyphus
Phaeosphaeriopsis	Lasiodiplodia	0,484866053	0,001636	mutualExclusion	Lasiodiplodia->Phaeosphaeriopsis
Erysiphe	Malassezia	0,75	0,000225	copresence	Malassezia->Erysiphe

Ustilago	Malassezia	0,101933138	2,7E-08	copresence	Malassezia->Ustilago
Botryosphaeria	Metschnikowia	0,557607951	1E-10	copresence	Metschnikowia->Botryosphaeria
Candida	Metschnikowia	0,648467572	1E-10	copresence	Metschnikowia->Candida
d-viniferin	Metschnikowia	0,221060766	1,57E-10	copresence	Metschnikowia->d-viniferina
Fusarium	Metschnikowia	0,60815837	0,000765	mutualExclusion	Metschnikowia->Fusarium
Gymnopus	Metschnikowia	-0,727670102	0,000605	mutualExclusion	Metschnikowia->Gymnopus
Hannaella	Metschnikowia	-0,669893845	8,27E-05	mutualExclusion	Metschnikowia->Hannaella
trans-resveratrol	Metschnikowia	0,535714286	3,79E-09	copresence	Metschnikowia->trans-resveratrolo
Wallemia	Metschnikowia	0,642857143	1,97E-09	copresence	Metschnikowia->Wallemia
Verrucocladosporium	Microsphaeropsis	0,972940769	1,05E-08	mutualExclusion	Microsphaeropsis->Verrucocladosporium
Hannaella	Monilinia	-0,272906564	9,3E-05	mutualExclusion	Monilinia->Hannaella
Phaeosphaeriopsis	Monilinia	0,931450759	0,000151	mutualExclusion	Monilinia->Phaeosphaeriopsis
Hannaella	monoterpenes	0,559615788	0,000479	mutualExclusion	monoterpenes->Hannaella
Alpova	Naganishia	-0,383284524	1E-10	mutualExclusion	Naganishia->Alpova
Cladonia	Naganishia	0,949069856	1,24E-10	mutualExclusion	Naganishia->Cladonia
Diaporthe	Naganishia	-0,684782609	1E-10	mutualExclusion	Naganishia->Diaporthe
Gymnopus	Naganishia	0,292499827	0,001072	copresence	Naganishia->Gymnopus
Hyphodermella	Naganishia	0,866921447	0,001034	copresence	Naganishia->Hyphodermella
Aureobasidium	Nigrospora	0,682908105	1,97E-06	copresence	Nigrospora->Aureobasidium
Kabatiella	Nigrospora	0,571428571	0,001841	copresence	Nigrospora->Kabatiella
Armillaria	Noosia	-0,858753861	1E-10	mutualExclusion	Noosia->Armillaria
Hannaella	Noosia	0,240612085	1E-10	copresence	Noosia->Hannaella

Polyporus	Noosia	-0,392723014	0,001797	mutualExclusion	Noosia->Polyporus
Pyrenophora	Noosia	0,944507379	6,08E-13	copresence	Noosia->Pyrenophora
trans-piceide	Noosia	-0,788110406	0,000736	mutualExclusion	Noosia->trans-piceide
monoterpenes	norisoprenoids	0,061836303	1,03E-05	copresence	norisoprenoids->monoterpenes
Gloeotinia	Parastagonospora	1	1E-10	mutualExclusion	Parastagonospora->Gloeotinia
Verrucocladosporium	Parastagonospora	-0,695892786	1E-10	mutualExclusion	Parastagonospora->Verrucocladosporium
Bettsia	Penicillium	0,195058074	0,000441	copresence	Penicillium->Bettsia
trans-resveratrol	Penicillium->trans	0,410116318	0,001984	copresence	Penicillium->trans-resveratrolo
Parastagonospora	Peniophora	0,951201753	1,25E-09	copresence	Peniophora->Parastagonospora
Sclerotinia	Periconia	0,559615788	0,0012	mutualExclusion	Periconia->Sclerotinia
Botryosphaeria	Pezicula	-0,715377758	0,00033	mutualExclusion	Pezicula->Botryosphaeria
Candida	Pezicula	0,559615788	3,71E-06	mutualExclusion	Pezicula->Candida
Metschnikowia	Pezicula	-0,374352443	0,000882	mutualExclusion	Pezicula->Metschnikowia
Didymella	Phaeosphaeria	0,60815837	0,001839	copresence	Phaeosphaeria->Didymella
Pithomyces	Phaeosphaeria	0,60815837	0,001074	copresence	Phaeosphaeria->Pithomyces
Stemphylium	Phaeosphaeria	0,327133281	0,000491	copresence	Phaeosphaeria->Stemphylium
Armillaria	Phaeosphaeriopsis	0,682908105	1E-10	mutualExclusion	Phaeosphaeriopsis->Armillaria
Sclerotinia	Phaeosphaeriopsis	0,931450759	1,06E-06	mutualExclusion	Phaeosphaeriopsis->Sclerotinia
Ceriporia	Phlebia	0,806899439	0,002008	copresence	Phlebia->Ceriporia
Cladosporium	Phoma	0,75	0,000117	copresence	Phoma->Cladosporium
Pithomyces	Phoma	0,928571429	0,000217	copresence	Phoma->Pithomyces
Sporidiobolus	Phoma	1,078992208	0,001086	copresence	Phoma->Sporidiobolus
Stemphylium	Phoma	0,410116318	0,000448	copresence	Phoma->Stemphylium

Didymella	Pithomyces	0,926055004	2,6E-05	copresence	Pithomyces->Didymella
Epicoccum	Pithomyces	0,785714286	0,002129	copresence	Pithomyces->Epicoccum
Stemphylium	Pithomyces	0,60815837	6,81E-05	copresence	Pithomyces->Stemphylium
trans-piceide	Podosphaera	-0,963624112	2,06E-06	mutualExclusion	Podosphaera->trans-piceide
Wallemia	Podosphaera	-0,450430299	6,57E-07	mutualExclusion	Podosphaera->Wallemia
Metschnikowia	Psathyrella	0,15682214	1E-10	copresence	Psathyrella->Metschnikowia
monoterpenes	Psathyrella	0,95499371	0,000872	copresence	Psathyrella->monoterpenes
Noosia	Psathyrella	-0,704829329	0,001882	mutualExclusion	Psathyrella->Noosia
Phaeosphaeriopsis	Psathyrella	0,559615788	0,00158	mutualExclusion	Psathyrella->Phaeosphaeriopsis
Botryosphaeria	Pseudozyma	-0,563636364	0,001969	mutualExclusion	Pseudozyma->Botryosphaeria
Hannaella	Pseudozyma	0,906999488	5,03E-07	copresence	Pseudozyma->Hannaella
Armillaria	Pyrenophora	0,881626462	2,29E-07	mutualExclusion	Pyrenophora->Armillaria
Pseudozyma	Pyrenophora	0,815508641	1E-10	copresence	Pyrenophora->Pseudozyma
Pithomyces	Rhizoctonia	0,785714286	0,000805	copresence	Rhizoctonia->Pithomyces
Diplodia	Saturnispora	1	1E-10	mutualExclusion	Saturnispora->Diplodia
Microsphaeropsis	Saturnispora	0,906527352	3,84E-08	copresence	Saturnispora->Microsphaeropsis
Sclerotinia	Saturnispora	-0,609094774	1E-10	mutualExclusion	Saturnispora->Sclerotinia
Verrucocladosporium	Saturnispora	-0,684782609	1E-10	mutualExclusion	Saturnispora->Verrucocladosporium
Armillaria	Sordaria	0,60815837	0,00126	mutualExclusion	Sordaria->Armillaria
Fusarium	Sporidiobolus	0,852929039	1,71E-07	copresence	Sporidiobolus->Fusarium
Hannaella	Sporidiobolus	0,807813166	0,000844	copresence	Sporidiobolus->Hannaella
Metschnikowia	Sporidiobolus	-0,892857143	6,34E-05	mutualExclusion	Sporidiobolus->Metschnikowia

Alpova	Sporisorium	-0,530655629	1E-10	mutualExclusion	Sporisorium->Alpova
Alternaria	Sporisorium	0,81843578	3,46E-06	copresence	Sporisorium->Alternaria
Botryosphaeria	Sporisorium	-0,795242772	6,55E-07	mutualExclusion	Sporisorium->Botryosphaeria
Diaporthe	Sporisorium	-0,413043478	4,05E-05	mutualExclusion	Sporisorium->Diaporthe
Fusarium	Sporisorium	0,987579923	4,6E-11	copresence	Sporisorium->Fusarium
Malassezia	Sporisorium	0,906326967	3,63E-08	copresence	Sporisorium->Malassezia
Metschnikowia	Sporisorium	0,559615788	6,12E-08	mutualExclusion	Sporisorium->Metschnikowia
Neofusicoccum	Sporisorium	0,559615788	0,000902	mutualExclusion	Sporisorium->Neofusicoccum
Phaeobotryon	Sporisorium	-0,440490767	0,000155	mutualExclusion	Sporisorium->Phaeobotryon
Psathyrella	Sporisorium	-0,795242772	0,000131	mutualExclusion	Sporisorium->Psathyrella
Stemphylium	Sporisorium	0,906326967	8,21E-07	copresence	Sporisorium->Stemphylium
Didymella	Stemphylium	0,785714286	0,001732	copresence	Stemphylium->Didymella
Botryosphaeria	Trametes	-0,945454545	2,72E-06	mutualExclusion	Trametes->Botryosphaeria
Meliniomyces	Trametes	0,39934783	1E-10	copresence	Trametes->Meliniomyces
Ustilago	Trametes	0,892112907	5,26E-10	copresence	Trametes->Ustilago
trans-resveratrol	trans-e-viniferin->trans	0,747889314	6,1E-07	copresence	trans-e-viniferina->trans-resveratrolo
trans-resveratrol	trans-piceatannol	0,642857143	0,000187	copresence	trans-piceatannolo->trans-resveratrolo
Pyrenophora	trans-piceide	-0,951285352	2,83E-07	mutualExclusion	trans-piceide->Pyrenophora
trans-e-viniferin	trans-piceide	0,928571429	0,000846	copresence	trans-piceide->trans-e-viniferina
Noosia	Wallemia	0,559615788	8,47E-06	mutualExclusion	Wallemia->Noosia
Penicillium	Wallemia	0,262827372	0,001651	copresence	Wallemia->Penicillium
Pseudozyma	Wallemia	-0,846881215	0,001946	mutualExclusion	Wallemia->Pseudozyma

trans-e-viniferin	Wallemia	0,826116401	7,38E-05	copresence	Wallemia->trans-e-viniferina

Supplementary information - Table S2-b

Raw data of co-occurrences between microbial taxa and metabolites for bacterial community. Ori-score , p-Val and Interaction type are displayed. Co-occurrences between bacterial taxa themselves are also displayed, whereas correlations between different metabolites are not included.

Entry 1	Entry 2	oriScore	pval	interactionType	name
Achromobacter	Bacillus	-0,63634	1E-10	mutualExclusion	Achromobacter->Bacillus=correl_pearson
Achromobacter	Blastocatella	-0,94301	1E-10	mutualExclusion	Achromobacter->Blastocatella=correl_pearson
Achromobacter	Clostridium	-0,79067	1E-10	mutualExclusion	Achromobacter->Clostridium=correl_pearson
Achromobacter	Corynebacterium	-0,60927	1E-10	mutualExclusion	Achromobacter->Corynebacterium=correl_pearson
Achromobacter	d-viniferina	-0,66667	1E-10	mutualExclusion	Achromobacter->d-viniferina=correl_pearson
Achromobacter	Flavobacterium	-0,83754	1E-10	mutualExclusion	Achromobacter->Flavobacterium=correl_pearson
Achromobacter	furans	-0,8469	1E-10	mutualExclusion	Achromobacter->furans=correl_pearson
Achromobacter	Lactobacillus	-0,58766	1E-10	mutualExclusion	Achromobacter->Lactobacillus=correl_pearson
Achromobacter	Massilia	-0,69307	1E-10	mutualExclusion	Achromobacter->Massilia=correl_pearson
Achromobacter	Methylobacterium	-0,78731	1E-10	mutualExclusion	Achromobacter->Methylobacterium=correl_pearson
Achromobacter	Nocardioides	-0,64059	1E-10	mutualExclusion	Achromobacter->Nocardioides=correl_pearson
Achromobacter	Pantoea	-0,70362	1E-10	mutualExclusion	Achromobacter->Pantoea=correl_pearson
Achromobacter	Roseomonas	-0,66616	1E-10	mutualExclusion	Achromobacter->Roseomonas=correl_pearson
Achromobacter	Rudaea	-0,72596	1E-10	mutualExclusion	Achromobacter->Rudaea=correl_pearson
Achromobacter	trans-e-viniferina	-0,88496	1E-10	mutualExclusion	Achromobacter->trans-e-viniferina=correl_pearson
Acinetobacter	Achromobacter	-0,65911	1E-10	mutualExclusion	Acinetobacter->Achromobacter=correl_pearson
Acinetobacter	Brachybacterium	0,977847	0,04	copresence	Acinetobacter->Brachybacterium=correl_pearson
Acinetobacter	Chryseobacterium	0,979049	0,03	copresence	Acinetobacter->Chryseobacterium=correl_pearson
Acinetobacter	Corynebacterium	0,997778	0,01	copresence	Acinetobacter->Corynebacterium=correl_pearson

Acinetobacter	d-viniferina	0,988883	0,04	copresence	Acinetobacter->d-viniferina=correl_pearson
Acinetobacter	Janthinobacterium	0,977196	0,01	copresence	Acinetobacter->Janthinobacterium=correl_pearson
Acinetobacter	Jeotgalicoccus	0,998669	0,01	copresence	Acinetobacter->Jeotgalicoccus=correl_pearson
Acinetobacter	Methylobacterium	0,981483	0,02	copresence	Acinetobacter->Methylobacterium=correl_pearson
Acinetobacter	Pedobacter	-0,82065	1E-10	mutualExclusion	Acinetobacter->Pedobacter=correl_pearson
Acinetobacter	Pseudomonas	0,998723	0,01	copresence	Acinetobacter->Pseudomonas=correl_pearson
Acinetobacter	Undibacterium	-0,89633	1E-10	mutualExclusion	Acinetobacter->Undibacterium=correl_pearson
Actinomycetospora	Achromobacter	-0,81696	1E-10	mutualExclusion	Actinomycetospora->Achromobacter=correl_pearson
Actinomycetospora	Pedobacter	-0,79495	1E-10	mutualExclusion	Actinomycetospora->Pedobacter=correl_pearson
Actinoplanes	Bacteroides	-0,78192	1E-10	mutualExclusion	Actinoplanes->Bacteroides=correl_pearson
Actinoplanes	Herbaspirillum	-0,70039	1E-10	mutualExclusion	Actinoplanes->Herbaspirillum=correl_pearson
Adhaeribacter	Achromobacter	-0,94288	1E-10	mutualExclusion	Adhaeribacter->Achromobacter=correl_pearson
Adhaeribacter	Cupriavidus	-0,75143	1E-10	mutualExclusion	Adhaeribacter->Cupriavidus=correl_pearson
aliphatic-alcohols	Achromobacter	-0,65802	1E-10	mutualExclusion	aliphatic-alcohols->Achromobacter=correl_pearson
aliphatic-alcohols	d-viniferina	0,988218	0,03	copresence	aliphatic-alcohols->d-viniferina=correl_pearson
aliphatic-alcohols	Roseomonas	0,998884	0,04	copresence	aliphatic-alcohols->Roseomonas=correl_pearson
aliphatic-alcohols	Variovorax	-0,8434	1E-10	mutualExclusion	aliphatic-alcohols->Variovorax=correl_pearson
Aquabacterium	C-6-aldehydes	-0,82693	1E-10	mutualExclusion	Aquabacterium->C-6-aldehydes=correl_pearson
Aquabacterium	Dolosigranulum	-0,9316	1E-10	mutualExclusion	Aquabacterium->Dolosigranulum=correl_pearson
Bacillus	Actinoplanes	-0,82257	1E-10	mutualExclusion	Bacillus->Actinoplanes=correl_pearson
Bacillus	Haemophilus	-0,65809	1E-10	mutualExclusion	Bacillus->Haemophilus=correl_pearson
Bacteroides	Achromobacter	-0,65606	1E-10	mutualExclusion	Bacteroides->Achromobacter=correl_pearson
Bacteroides	Haemophilus	-0,60585	1E-10	mutualExclusion	Bacteroides->Haemophilus=correl_pearson

Bacteroides	Ralstonia	-0,61728	1E-10	mutualExclusion	Bacteroides->Ralstonia=correl_pearson
benzenoids	Achromobacter	-0,82541	1E-10	mutualExclusion	benzenoids->Achromobacter=correl_pearson
benzenoids	Clostridium	0,989428	0,01	copresence	benzenoids->Clostridium=correl_pearson
benzenoids	Cupriavidus	-0,61999	1E-10	mutualExclusion	benzenoids->Cupriavidus=correl_pearson
benzenoids	furans	0,989584	0,04	copresence	benzenoids->furans=correl_pearson
benzenoids	Pedobacter	-0,96876	1E-10	mutualExclusion	benzenoids->Pedobacter=correl_pearson
Blastocatella	Pedobacter	-0,64304	1E-10	mutualExclusion	Blastocatella->Pedobacter=correl_pearson
Brachybacterium	Achromobacter	-0,80105	1E-10	mutualExclusion	Brachybacterium->Achromobacter=correl_pearson
Brachybacterium	Actinomycetospora	0,980559	0,03	copresence	Brachybacterium->Actinomycetospora=correl_pearson
Brachybacterium	Candidatus-Phytoplasma	0,999464	0,04	copresence	Brachybacterium->Candidatus-Phytoplasma=correl_pearson
Brachybacterium	Clostridium	0,994734	0,05	copresence	Brachybacterium->Clostridium=correl_pearson
Brachybacterium	Flavobacterium	0,992052	0,04	copresence	Brachybacterium->Flavobacterium=correl_pearson
Brachybacterium	Pedobacter	-0,88588	1E-10	mutualExclusion	Brachybacterium->Pedobacter=correl_pearson
Brachybacterium	Solirubrobacter	0,980559	0,03	copresence	Brachybacterium->Solirubrobacter=correl_pearson
Brachybacterium	trans-e-viniferina	0,987251	0,03	copresence	Brachybacterium->trans-e-viniferina=correl_pearson
Bradyrhizobium	Herbaspirillum	-0,76082	1E-10	mutualExclusion	Bradyrhizobium->Herbaspirillum=correl_pearson
Bradyrhizobium	Reyranella	0,977105	0,02	copresence	Bradyrhizobium->Reyranella=correl_pearson
Bradyrhizobium	Spirosoma	0,998721	0,03	copresence	Bradyrhizobium->Spirosoma=correl_pearson
Bradyrhizobium	trans-piceatannolo	0,998548	0,04	copresence	Bradyrhizobium->trans-piceatannolo=correl_pearson
Bradyrhizobium	Variovorax	-0,67006	1E-10	mutualExclusion	Bradyrhizobium->Variovorax=correl_pearson
Brevibacterium	Achromobacter	-0,74164	1E-10	mutualExclusion	Brevibacterium->Achromobacter=correl_pearson
Brevibacterium	Acinetobacter	0,988012	0,01	copresence	Brevibacterium->Acinetobacter=correl_pearson
Brevibacterium	Candidatus-Phytoplasma	0,992827	0,04	copresence	Brevibacterium->Candidatus-Phytoplasma=correl_pearson
Brevibacterium	d-viniferina	0,993674	0,03	copresence	Brevibacterium->d-viniferina=correl_pearson
Brevibacterium	Flavisolibacter	0,976484	0,05	copresence	Brevibacterium->Flavisolibacter=correl_pearson
Brevibacterium	Jeotgalicoccus	0,984305	0,02	copresence	Brevibacterium->Jeotgalicoccus=correl_pearson

Brevibacterium	Methylobacterium	0,988019	0,01	copresence	Brevibacterium->Methylobacterium=correl_pearson
Brevibacterium	Undibacterium	-0,82456	1E-10	mutualExclusion	Brevibacterium->Undibacterium=correl_pearson
Brevibacterium	Variovorax	-0,72694	1E-10	mutualExclusion	Brevibacterium->Variovorax=correl_pearson
Brevundimonas	C-6-aldehydes	-0,86953	1E-10	mutualExclusion	Brevundimonas->C-6-aldehydes=correl_pearson
Burkholderia	Cupriavidus	-0,81102	1E-10	mutualExclusion	Burkholderia->Cupriavidus=correl_pearson
Burkholderia	Pedobacter	-0,90395	1E-10	mutualExclusion	Burkholderia->Pedobacter=correl_pearson
C-6-aldehydes	Flexibacter	-0,63209	1E-10	mutualExclusion	C-6-aldehydes->Flexibacter=correl_pearson
C-6-aldehydes	Steroidobacter	-0,64577	1E-10	mutualExclusion	C-6-aldehydes->Steroidobacter=correl_pearson
Candidatus-Moranella	Achromobacter	-0,66139	1E-10	mutualExclusion	Candidatus-Moranella->Achromobacter=correl_pearson
Candidatus-Moranella	Acinetobacter	0,991168	0,01	copresence	Candidatus-Moranella->Acinetobacter=correl_pearson
Candidatus-Moranella	aliphatic-alcohols	0,985556	0,02	copresence	Candidatus-Moranella->aliphatic-alcohols=correl_pearson
Candidatus-Moranella	Brevibacterium	0,993376	0,02	copresence	Candidatus-Moranella->Brevibacterium=correl_pearson
Candidatus-Moranella	Corynebacterium	0,990568	0,01	copresence	Candidatus-Moranella->Corynebacterium=correl_pearson
Candidatus-Moranella	Lactobacillus	0,990857	0,01	copresence	Candidatus-Moranella->Lactobacillus=correl_pearson
Candidatus-Moranella	Pedobacter	-0,8766	1E-10	mutualExclusion	Candidatus-Moranella->Pedobacter=correl_pearson
Candidatus-Moranella	Staphylococcus	0,985465	0,03	copresence	Candidatus-Moranella->Staphylococcus=correl_pearson
Candidatus-Moranella	trans-resveratrolo	0,984637	0,03	copresence	Candidatus-Moranella->trans-resveratrolo=correl_pearson
Candidatus-Phytoplasma	Achromobacter	-0,81261	1E-10	mutualExclusion	Candidatus-Phytoplasma->Achromobacter=correl_pearson
Candidatus-Phytoplasma	benzenoids	0,97987	0,03	copresence	Candidatus-Phytoplasma->benzenoids=correl_pearson
Candidatus-Phytoplasma	Clostridium	0,996636	0,02	copresence	Candidatus-Phytoplasma->Clostridium=correl_pearson
Candidatus-Phytoplasma	Flavobacterium	0,995634	0,03	copresence	Candidatus-Phytoplasma->Flavobacterium=correl_pearson
Candidatus-Phytoplasma	Pedobacter	-0,89991	1E-10	mutualExclusion	Candidatus-Phytoplasma->Pedobacter=correl_pearson
Candidatus-Phytoplasma	Variovorax	-0,64412	1E-10	mutualExclusion	Candidatus-Phytoplasma->Variovorax=correl_pearson
Candidatus-Tremblaya	Achromobacter	-0,95293	1E-10	mutualExclusion	Candidatus-Tremblaya->Achromobacter=correl_pearson

Candidatus-Tremblaya	Paraburkholderia	-0,59669	1E-10	mutualExclusion	Candidatus-Tremblaya->Paraburkholderia=correl_pearson
Candidatus-Tremblaya	Pedobacter	-0,87463	1E-10	mutualExclusion	Candidatus-Tremblaya->Pedobacter=correl_pearson
Candidatus-Tremblaya	Streptococcus	0,987524	0,02	copresence	Candidatus-Tremblaya->Streptococcus=correl_pearson
Caulobacter	C-6-aldehydes	-0,70658	1E-10	mutualExclusion	Caulobacter->C-6-aldehydes=correl_pearson
Caulobacter	Undibacterium	-0,91437	1E-10	mutualExclusion	Caulobacter->Undibacterium=correl_pearson
Chroococcidiopsis	Achromobacter	-0,96828	1E-10	mutualExclusion	Chroococcidiopsis->Achromobacter=correl_pearson
Chryseobacterium	Bradyrhizobium	0,982991	0,03	copresence	Chryseobacterium->Bradyrhizobium=correl_pearson
Chryseobacterium	Corynebacterium	0,982	0,02	copresence	Chryseobacterium->Corynebacterium=correl_pearson
Chryseobacterium	Lactobacillus	0,978379	0,02	copresence	Chryseobacterium->Lactobacillus=correl_pearson
Chryseobacterium	Lysobacter	0,988821	0,03	copresence	Chryseobacterium->Lysobacter=correl_pearson
Chryseobacterium	Mucilaginibacter	0,985722	0,03	copresence	Chryseobacterium->Mucilaginibacter=correl_pearson
Chryseobacterium	Paenibacillus	0,984255	0,02	copresence	Chryseobacterium->Paenibacillus=correl_pearson
Chryseobacterium	Pedobacter	-0,68711	1E-10	mutualExclusion	Chryseobacterium->Pedobacter=correl_pearson
Chryseobacterium	trans-piceatannolo	0,98629	0,04	copresence	Chryseobacterium->trans-piceatannolo=correl_pearson
Chryseobacterium	Variovorax	-0,68221	1E-10	mutualExclusion	Chryseobacterium->Variovorax=correl_pearson
cis-piceide	Gluconobacter	-0,58199	1E-10	mutualExclusion	cis-piceide->Gluconobacter=correl_pearson
cis-piceide	Herbaspirillum	-0,90317	1E-10	mutualExclusion	cis-piceide->Herbaspirillum=correl_pearson
cis-piceide	Paenibacillus	0,986104	0,05	copresence	cis-piceide->Paenibacillus=correl_pearson
cis-piceide	Pedobacter	-0,60849	1E-10	mutualExclusion	cis-piceide->Pedobacter=correl_pearson
cis-piceide	Rhodococcus	0,997794	0,03	copresence	cis-piceide->Rhodococcus=correl_pearson
cis-piceide	Undibacterium	-0,88986	1E-10	mutualExclusion	cis-piceide->Undibacterium=correl_pearson
cis-piceide	Variovorax	-0,8427	1E-10	mutualExclusion	cis-piceide->Variovorax=correl_pearson
Clostridium	furans	0,995055	0,05	copresence	Clostridium->furans=correl_pearson
Clostridium	Rubellimicrobium	0,979273	0,01	copresence	Clostridium->Rubellimicrobium=correl_pearson
Clostridium	Rudaea	0,991048	0,05	copresence	Clostridium->Rudaea=correl_pearson

Clostridium	trans-resveratrolo	0,982102	0,03	copresence	Clostridium->trans-resveratrolo=correl_pearson
Clostridium	Undibacterium	-0,78469	1E-10	mutualExclusion	Clostridium->Undibacterium=correl_pearson
Clostridium	Variovorax	-0,69707	1E-10	mutualExclusion	Clostridium->Variovorax=correl_pearson
Corynebacterium	Brevibacterium	0,979762	0,01	copresence	Corynebacterium->Brevibacterium=correl_pearson
Corynebacterium	d-viniferina	0,987971	0,05	copresence	Corynebacterium->d-viniferina=correl_pearson
Corynebacterium	Jeotgalicoccus	0,999707	0,02	copresence	Corynebacterium->Jeotgalicoccus=correl_pearson
Corynebacterium	Lactobacillus	0,999328	0,04	copresence	Corynebacterium->Lactobacillus=correl_pearson
Corynebacterium	Lysobacter	0,997865	0,01	copresence	Corynebacterium->Lysobacter=correl_pearson
Corynebacterium	Meiothermus	0,991828	0,01	copresence	Corynebacterium->Meiothermus=correl_pearson
Corynebacterium	Pseudomonas	0,997949	0,02	copresence	Corynebacterium->Pseudomonas=correl_pearson
Corynebacterium	Staphylococcus	0,998964	0,01	copresence	Corynebacterium->Staphylococcus=correl_pearson
Cupriavidus	C-6-aldehydes	-0,89409	1E-10	mutualExclusion	Cupriavidus->C-6-aldehydes=correl_pearson
Cupriavidus	Chroococcidiopsis	-0,7624	1E-10	mutualExclusion	Cupriavidus->Chroococcidiopsis=correl_pearson
Cupriavidus	Devosia	-0,75185	1E-10	mutualExclusion	Cupriavidus->Devosia=correl_pearson
Cupriavidus	Dolosigranulum	-0,74154	1E-10	mutualExclusion	Cupriavidus->Dolosigranulum=correl_pearson
Cupriavidus	monoterpenes	-0,71616	1E-10	mutualExclusion	Cupriavidus->monoterpenes=correl_pearson
Cupriavidus	norisoprenoids	-0,77998	1E-10	mutualExclusion	Cupriavidus->norisoprenoids=correl_pearson
Cupriavidus	Paracoccus	-0,75376	1E-10	mutualExclusion	Cupriavidus->Paracoccus=correl_pearson
Cupriavidus	Ralstonia	-0,82249	1E-10	mutualExclusion	Cupriavidus->Ralstonia=correl_pearson
Cupriavidus	Sphingomonas	-0,92368	1E-10	mutualExclusion	Cupriavidus->Sphingomonas=correl_pearson
Dolosigranulum	Bradyrhizobium	-0,68295	1E-10	mutualExclusion	Dolosigranulum->Bradyrhizobium=correl_pearson
Dolosigranulum	Brevundimonas	-0,86921	1E-10	mutualExclusion	Dolosigranulum->Brevundimonas=correl_pearson
Dolosigranulum	Caulobacter	-0,78999	1E-10	mutualExclusion	Dolosigranulum->Caulobacter=correl_pearson
Dolosigranulum	Flexibacter	-0,78367	1E-10	mutualExclusion	Dolosigranulum->Flexibacter=correl_pearson

Dolosigranulum	Mucilaginibacter	-0,68918	1E-10	mutualExclusion	Dolosigranulum->Mucilaginibacter=correl_pearson
Dolosigranulum	Sediminibacterium	-0,72734	1E-10	mutualExclusion	Dolosigranulum->Sediminibacterium=correl_pearson
Dolosigranulum	Spirosoma	-0,6669	1E-10	mutualExclusion	Dolosigranulum->Spirosoma=correl_pearson
d-viniferina	Candidatus-Moranella	0,999841	0,04	copresence	d-viniferina->Candidatus-Moranella=correl_pearson
d-viniferina	Herbaspirillum	-0,71139	1E-10	mutualExclusion	d-viniferina->Herbaspirillum=correl_pearson
d-viniferina	Jeotgalicoccus	0,990932	0,03	copresence	d-viniferina->Jeotgalicoccus=correl_pearson
d-viniferina	Lysobacter	0,977085	0,01	copresence	d-viniferina->Lysobacter=correl_pearson
d-viniferina	Pedobacter	-0,88474	1E-10	mutualExclusion	d-viniferina->Pedobacter=correl_pearson
d-viniferina	trans-resveratrolo	0,982751	0,05	copresence	d-viniferina->trans-resveratrolo=correl_pearson
d-viniferina	Variovorax	-0,79649	1E-10	mutualExclusion	d-viniferina->Variovorax=correl_pearson
Dyadobacter	Gluconobacter	-0,77338	1E-10	mutualExclusion	Dyadobacter->Gluconobacter=correl_pearson
Dyadobacter	Herbaspirillum	-0,94561	1E-10	mutualExclusion	Dyadobacter->Herbaspirillum=correl_pearson
Dyadobacter	Rhizobium	-0,6771	1E-10	mutualExclusion	Dyadobacter->Rhizobium=correl_pearson
Dyadobacter	Undibacterium	-0,66049	1E-10	mutualExclusion	Dyadobacter->Undibacterium=correl_pearson
Dyadobacter	Variovorax	-0,98372	1E-10	mutualExclusion	Dyadobacter->Variovorax=correl_pearson
Flavisolibacter	Achromobacter	-0,82706	1E-10	mutualExclusion	Flavisolibacter->Achromobacter=correl_pearson
Flavisolibacter	benzenoids	0,999969	0,04	copresence	Flavisolibacter->benzenoids=correl_pearson
Flavisolibacter	Clostridium	0,990269	0,02	copresence	Flavisolibacter->Clostridium=correl_pearson
Flavisolibacter	Cupriavidus	-0,61556	1E-10	mutualExclusion	Flavisolibacter->Cupriavidus=correl_pearson
Flavisolibacter	Flavobacterium	0,994277	0,01	copresence	Flavisolibacter->Flavobacterium=correl_pearson
Flavisolibacter	monoterpenes	0,990216	0,03	copresence	Flavisolibacter->monoterpenes=correl_pearson
Flavisolibacter	Paracoccus	0,981206	0,03	copresence	Flavisolibacter->Paracoccus=correl_pearson
Flavisolibacter	Rubellimicrobium	0,994331	0,02	copresence	Flavisolibacter->Rubellimicrobium=correl_pearson
Flavisolibacter	Streptococcus	0,978712	0,01	copresence	Flavisolibacter->Streptococcus=correl_pearson
Flavisolibacter	trans-e-viniferina	0,979747	0,03	copresence	Flavisolibacter->trans-e-viniferina=correl_pearson

Flavobacterium	benzenoids	0,993406	0,03	copresence	Flavobacterium->benzenoids=correl_pearson
Flavobacterium	Clostridium	0,996642	0,02	copresence	Flavobacterium->Clostridium=correl_pearson
Flavobacterium	furans	0,999474	0,02	copresence	Flavobacterium->furans=correl_pearson
Flavobacterium	Rubellimicrobium	0,991502	0,02	copresence	Flavobacterium->Rubellimicrobium=correl_pearson
Flavobacterium	Streptococcus	0,982771	0,01	copresence	Flavobacterium->Streptococcus=correl_pearson
Flavobacterium	Undibacterium	-0,753	1E-10	mutualExclusion	Flavobacterium->Undibacterium=correl_pearson
Flavobacterium	Variovorax	-0,6491	1E-10	mutualExclusion	Flavobacterium->Variovorax=correl_pearson
Flexibacter	Variovorax	-0,57899	1E-10	mutualExclusion	Flexibacter->Variovorax=correl_pearson
furans	Brachybacterium	0,993615	0,03	copresence	furans->Brachybacterium=correl_pearson
furans	Candidatus-Phytoplasma	0,996705	0,02	copresence	furans->Candidatus-Phytoplasma=correl_pearson
furans	Flavisolibacter	0,990693	0,02	copresence	furans->Flavisolibacter=correl_pearson
furans	Rubellimicrobium	0,990266	0,04	copresence	furans->Rubellimicrobium=correl_pearson
furans	trans-e-viniferina	0,996167	0,04	copresence	furans->trans-e-viniferina=correl_pearson
furans	Undibacterium	-0,76228	1E-10	mutualExclusion	furans->Undibacterium=correl_pearson
furans	Variovorax	-0,6274	1E-10	mutualExclusion	furans->Variovorax=correl_pearson
Gluconobacter	Actinoplanes	-0,90363	1E-10	mutualExclusion	Gluconobacter->Actinoplanes=correl_pearson
Gluconobacter	Paraburkholderia	-0,74847	1E-10	mutualExclusion	Gluconobacter->Paraburkholderia=correl_pearson
Gluconobacter	Prevotella	-0,66524	1E-10	mutualExclusion	Gluconobacter->Prevotella=correl_pearson
Gluconobacter	Rhodococcus	-0,63466	1E-10	mutualExclusion	Gluconobacter->Rhodococcus=correl_pearson
Haemophilus	Gluconobacter	-0,85244	1E-10	mutualExclusion	Haemophilus->Gluconobacter=correl_pearson
Haemophilus	Variovorax	-0,91384	1E-10	mutualExclusion	Haemophilus->Variovorax=correl_pearson
Herbaspirillum	Acinetobacter	-0,69009	1E-10	mutualExclusion	Herbaspirillum->Acinetobacter=correl_pearson
Herbaspirillum	aliphatic-alcohols	-0,71767	1E-10	mutualExclusion	Herbaspirillum->aliphatic-alcohols=correl_pearson
Herbaspirillum	Aquabacterium	-0,59289	1E-10	mutualExclusion	Herbaspirillum->Aquabacterium=correl_pearson

Herbaspirillum	Brevibacterium	-0,62954	1E-10	mutualExclusion	Herbaspirillum->Brevibacterium=correl_pearson
Herbaspirillum	Brevundimonas	-0,7437	1E-10	mutualExclusion	Herbaspirillum->Brevundimonas=correl_pearson
Herbaspirillum	Candidatus-Moranella	-0,71462	1E-10	mutualExclusion	Herbaspirillum->Candidatus-Moranella=correl_pearson
Herbaspirillum	Caulobacter	-0,82423	1E-10	mutualExclusion	Herbaspirillum->Caulobacter=correl_pearson
Herbaspirillum	Chryseobacterium	-0,71138	1E-10	mutualExclusion	Herbaspirillum->Chryseobacterium=correl_pearson
Herbaspirillum	Corynebacterium	-0,73629	1E-10	mutualExclusion	Herbaspirillum->Corynebacterium=correl_pearson
Herbaspirillum	Devosia	-0,62701	1E-10	mutualExclusion	Herbaspirillum->Devosia=correl_pearson
Herbaspirillum	Flexibacter	-0,7168	1E-10	mutualExclusion	Herbaspirillum->Flexibacter=correl_pearson
Herbaspirillum	Haemophilus	-0,75395	1E-10	mutualExclusion	Herbaspirillum->Haemophilus=correl_pearson
Herbaspirillum	Lactobacillus	-0,75908	1E-10	mutualExclusion	Herbaspirillum->Lactobacillus=correl_pearson
Herbaspirillum	Lysobacter	-0,76221	1E-10	mutualExclusion	Herbaspirillum->Lysobacter=correl_pearson
Herbaspirillum	Paraburkholderia	-0,61362	1E-10	mutualExclusion	Herbaspirillum->Paraburkholderia=correl_pearson
Herbaspirillum	Pelomonas	-0,87912	1E-10	mutualExclusion	Herbaspirillum->Pelomonas=correl_pearson
Herbaspirillum	Prevotella	-0,90603	1E-10	mutualExclusion	Herbaspirillum->Prevotella=correl_pearson
Herbaspirillum	Reyranella	-0,70169	1E-10	mutualExclusion	Herbaspirillum->Reyranella=correl_pearson
Herbaspirillum	Roseomonas	-0,71395	1E-10	mutualExclusion	Herbaspirillum->Roseomonas=correl_pearson
Herbaspirillum	Sediminibacterium	-0,76873	1E-10	mutualExclusion	Herbaspirillum->Sediminibacterium=correl_pearson
Herbaspirillum	Spirosoma	-0,73727	1E-10	mutualExclusion	Herbaspirillum->Spirosoma=correl_pearson
Herbaspirillum	Staphylococcus	-0,76174	1E-10	mutualExclusion	Herbaspirillum->Staphylococcus=correl_pearson
Herbaspirillum	Steroidobacter	-0,68698	1E-10	mutualExclusion	Herbaspirillum->Steroidobacter=correl_pearson
Herbaspirillum	trans-piceatannolo	-0,72537	1E-10	mutualExclusion	Herbaspirillum->trans-piceatannolo=correl_pearson

Herbaspirillum	trans-piceide	-0,70726	1E-10	mutualExclusion	Herbaspirillum->trans-piceide=correl_pearson
Hymenobacter	C-6-aldehydes	-0,69537	1E-10	mutualExclusion	Hymenobacter->C-6-aldehydes=correl_pearson
Hymenobacter	Dolosigranulum	-0,87549	1E-10	mutualExclusion	Hymenobacter->Dolosigranulum=correl_pearson
Hymenobacter	Ralstonia	-0,67115	1E-10	mutualExclusion	Hymenobacter->Ralstonia=correl_pearson
Janthinobacterium	Achromobacter	-0,59591	1E-10	mutualExclusion	Janthinobacterium->Achromobacter=correl_pearson
Janthinobacterium	Herbaspirillum	-0,65907	1E-10	mutualExclusion	Janthinobacterium->Herbaspirillum=correl_pearson
Janthinobacterium	Spirosoma	0,98417	0,05	copresence	Janthinobacterium->Spirosoma=correl_pearson
Janthinobacterium	trans-piceatannolo	0,981299	0,05	copresence	Janthinobacterium->trans-piceatannolo=correl_pearson
Janthinobacterium	Undibacterium	-0,9694	1E-10	mutualExclusion	Janthinobacterium->Undibacterium=correl_pearson
Janthinobacterium	Variovorax	-0,63443	1E-10	mutualExclusion	Janthinobacterium->Variovorax=correl_pearson
Jeotgalicoccus	Achromobacter	-0,62596	1E-10	mutualExclusion	Jeotgalicoccus->Achromobacter=correl_pearson
Jeotgalicoccus	Candidatus-Moranella	0,993167	0,04	copresence	Jeotgalicoccus->Candidatus-Moranella=correl_pearson
Jeotgalicoccus	Chryseobacterium	0,978411	0,01	copresence	Jeotgalicoccus->Chryseobacterium=correl_pearson
Jeotgalicoccus	Herbaspirillum	-0,72588	1E-10	mutualExclusion	Jeotgalicoccus->Herbaspirillum=correl_pearson
Jeotgalicoccus	Lactobacillus	0,998756	0,01	copresence	Jeotgalicoccus->Lactobacillus=correl_pearson
Jeotgalicoccus	Lysobacter	0,995993	0,03	copresence	Jeotgalicoccus->Lysobacter=correl_pearson
Jeotgalicoccus	Meiothermus	0,988506	0,01	copresence	Jeotgalicoccus->Meiothermus=correl_pearson
Jeotgalicoccus	Pseudomonas	0,999204	0,02	copresence	Jeotgalicoccus->Pseudomonas=correl_pearson
Jeotgalicoccus	Staphylococcus	0,997635	0,01	copresence	Jeotgalicoccus->Staphylococcus=correl_pearson
Jeotgalicoccus	Variovorax	-0,76577	1E-10	mutualExclusion	Jeotgalicoccus->Variovorax=correl_pearson
Lactobacillus	Acinetobacter	0,994969	0,02	copresence	Lactobacillus->Acinetobacter=correl_pearson
Lactobacillus	d-viniferina	0,988416	0,03	copresence	Lactobacillus->d-viniferina=correl_pearson
Lactobacillus	Lysobacter	0,997949	0,01	copresence	Lactobacillus->Lysobacter=correl_pearson
Lactobacillus	Meiothermus	0,993444	0,03	copresence	Lactobacillus->Meiothermus=correl_pearson
Lactobacillus	Paenibacillus	0,981132	0,01	copresence	Lactobacillus->Paenibacillus=correl_pearson
Lactobacillus	Staphylococcus	0,999325	0,01	copresence	Lactobacillus->Staphylococcus=correl_pearson

Lactobacillus	trans-resveratrolo	0,981941	0,05	copresence	Lactobacillus->trans-resveratrolo=correl_pearson
Lactobacillus	Variovorax	-0,79046	1E-10	mutualExclusion	Lactobacillus->Variovorax=correl_pearson
Lysobacter	Acinetobacter	0,992454	0,01	copresence	Lysobacter->Acinetobacter=correl_pearson
Lysobacter	Candidatus-Moranella	0,980651	0,01	copresence	Lysobacter->Candidatus-Moranella=correl_pearson
Lysobacter	Janthinobacterium	0,980274	0,01	copresence	Lysobacter->Janthinobacterium=correl_pearson
Lysobacter	Meiothermus	0,997895	0,01	copresence	Lysobacter->Meiothermus=correl_pearson
Lysobacter	Pseudomonas	0,991643	0,03	copresence	Lysobacter->Pseudomonas=correl_pearson
Lysobacter	Reyranella	0,990546	0,02	copresence	Lysobacter->Reyranella=correl_pearson
Lysobacter	Staphylococcus	0,999627	0,04	copresence	Lysobacter->Staphylococcus=correl_pearson
Lysobacter	Undibacterium	-0,91704	1E-10	mutualExclusion	Lysobacter->Undibacterium=correl_pearson
Massilia	Cupriavidus	-0,98153	1E-10	mutualExclusion	Massilia->Cupriavidus=correl_pearson
Massilia	Pedobacter	-0,87493	1E-10	mutualExclusion	Massilia->Pedobacter=correl_pearson
Meiothermus	Acinetobacter	0,982412	0,03	copresence	Meiothermus->Acinetobacter=correl_pearson
Meiothermus	Chryseobacterium	0,987954	0,03	copresence	Meiothermus->Chryseobacterium=correl_pearson
Meiothermus	Herbaspirillum	-0,79573	1E-10	mutualExclusion	Meiothermus->Herbaspirillum=correl_pearson
Meiothermus	Paenibacillus	0,996716	0,01	copresence	Meiothermus->Paenibacillus=correl_pearson
Meiothermus	Pedobacter	-0,73177	1E-10	mutualExclusion	Meiothermus->Pedobacter=correl_pearson
Meiothermus	Staphylococcus	0,996536	0,05	copresence	Meiothermus->Staphylococcus=correl_pearson
Meiothermus	Undibacterium	-0,92239	1E-10	mutualExclusion	Meiothermus->Undibacterium=correl_pearson
Mesorhizobium	Achromobacter	-0,72922	1E-10	mutualExclusion	Mesorhizobium->Achromobacter=correl_pearson
Mesorhizobium	Cupriavidus	-0,8351	1E-10	mutualExclusion	Mesorhizobium->Cupriavidus=correl_pearson
Mesorhizobium	Pedobacter	-0,98686	1E-10	mutualExclusion	Mesorhizobium->Pedobacter=correl_pearson
Methylobacterium	Candidatus-Phytoplasma	0,995022	0,01	copresence	Methylobacterium->Candidatus-Phytoplasma=correl_pearson
Methylobacterium	Clostridium	0,985916	0,04	copresence	Methylobacterium->Clostridium=correl_pearson
Methylobacterium	furans	0,984741	0,05	copresence	Methylobacterium->furans=correl_pearson
Methylobacterium	trans-resveratrolo	0,994747	0,02	copresence	Methylobacterium->trans-resveratrolo=correl_pearson

Methylobacterium	Variovorax	-0,61941	1E-10	mutualExclusion	Methylobacterium->Variovorax=correl_pearson
monoterpenes	Achromobacter	-0,86638	1E-10	mutualExclusion	monoterpenes->Achromobacter=correl_pearson
monoterpenes	benzenoids	0,99076	0,02	copresence	monoterpenes->benzenoids=correl_pearson
monoterpenes	Rubellimicrobium	0,993587	0,03	copresence	monoterpenes->Rubellimicrobium=correl_pearson
monoterpenes	Undibacterium	-0,58981	1E-10	mutualExclusion	monoterpenes->Undibacterium=correl_pearson
Mucilaginibacter	Bradyrhizobium	0,999078	0,01	copresence	Mucilaginibacter->Bradyrhizobium=correl_pearson
Mucilaginibacter	Herbaspirillum	-0,73266	1E-10	mutualExclusion	Mucilaginibacter->Herbaspirillum=correl_pearson
Mucilaginibacter	Janthinobacterium	0,979946	0,03	copresence	Mucilaginibacter->Janthinobacterium=correl_pearson
Mucilaginibacter	Sediminibacterium	0,994939	0,02	copresence	Mucilaginibacter->Sediminibacterium=correl_pearson
Mucilaginibacter	Undibacterium	-0,98742	1E-10	mutualExclusion	Mucilaginibacter->Undibacterium=correl_pearson
Nocardioides	aliphatic-alcohols	0,996563	0,03	copresence	Nocardioides->aliphatic-alcohols=correl_pearson
Nocardioides	Herbaspirillum	-0,71996	1E-10	mutualExclusion	Nocardioides->Herbaspirillum=correl_pearson
Nocardioides	Undibacterium	-0,67219	1E-10	mutualExclusion	Nocardioides->Undibacterium=correl_pearson
Nocardioides	Variovorax	-0,86448	1E-10	mutualExclusion	Nocardioides->Variovorax=correl_pearson
norisoprenoids	Achromobacter	-0,81641	1E-10	mutualExclusion	norisoprenoids->Achromobacter=correl_pearson
norisoprenoids	Mesorhizobium	0,983809	0,04	copresence	norisoprenoids->Mesorhizobium=correl_pearson
norisoprenoids	Variovorax	-0,68806	1E-10	mutualExclusion	norisoprenoids->Variovorax=correl_pearson
Novosphingobium	Bradyrhizobium	0,999268	0,02	copresence	Novosphingobium->Bradyrhizobium=correl_pearson
Novosphingobium	Chryseobacterium	0,977045	0,04	copresence	Novosphingobium->Chryseobacterium=correl_pearson
Novosphingobium	Dolosigranulum	-0,68633	1E-10	mutualExclusion	Novosphingobium->Dolosigranulum=correl_pearson
Novosphingobium	Herbaspirillum	-0,78171	1E-10	mutualExclusion	Novosphingobium->Herbaspirillum=correl_pearson
Novosphingobium	Mucilaginibacter	0,99681	0,05	copresence	Novosphingobium->Mucilaginibacter=correl_pearson
Novosphingobium	Undibacterium	-0,97481	1E-10	mutualExclusion	Novosphingobium->Undibacterium=correl_pearson
Novosphingobium	Variovorax	-0,68461	1E-10	mutualExclusion	Novosphingobium->Variovorax=correl_pearson

Paenibacillus	Bradyrhizobium	0,980932	0,03	copresence	Paenibacillus->Bradyrhizobium=correl_pearson
Paenibacillus	Corynebacterium	0,978267	0,01	copresence	Paenibacillus->Corynebacterium=correl_pearson
Paenibacillus	Herbaspirillum	-0,82409	1E-10	mutualExclusion	Paenibacillus->Herbaspirillum=correl_pearson
Paenibacillus	Lysobacter	0,989544	0,01	copresence	Paenibacillus->Lysobacter=correl_pearson
Paenibacillus	Novosphingobium	0,981227	0,03	copresence	Paenibacillus->Novosphingobium=correl_pearson
Paenibacillus	Reyranella	0,981802	0,02	copresence	Paenibacillus->Reyranella=correl_pearson
Paenibacillus	Variovorax	-0,78893	1E-10	mutualExclusion	Paenibacillus->Variovorax=correl_pearson
Pantoea	Janthinobacterium	0,987524	0,05	copresence	Pantoea->Janthinobacterium=correl_pearson
Pantoea	Pedobacter	-0,71586	1E-10	mutualExclusion	Pantoea->Pedobacter=correl_pearson
Paraburkholderia	Adhaeribacter	-0,60663	1E-10	mutualExclusion	Paraburkholderia->Adhaeribacter=correl_pearson
Paraburkholderia	Bacillus	-0,66477	1E-10	mutualExclusion	Paraburkholderia->Bacillus=correl_pearson
Paraburkholderia	Bacteroides	-0,62824	1E-10	mutualExclusion	Paraburkholderia->Bacteroides=correl_pearson
Paraburkholderia	Blastocatella	-0,74173	1E-10	mutualExclusion	Paraburkholderia->Blastocatella=correl_pearson
Paraburkholderia	Chroococcidiopsis	-0,91842	1E-10	mutualExclusion	Paraburkholderia->Chroococcidiopsis=correl_pearson
Paracoccus	Achromobacter	-0,87059	1E-10	mutualExclusion	Paracoccus->Achromobacter=correl_pearson
Paracoccus	Adhaeribacter	0,984767	0,04	copresence	Paracoccus->Adhaeribacter=correl_pearson
Paracoccus	norisoprenoids	0,993569	0,05	copresence	Paracoccus->norisoprenoids=correl_pearson
Pedobacter	Adhaeribacter	-0,95612	1E-10	mutualExclusion	Pedobacter->Adhaeribacter=correl_pearson
Pedobacter	aliphatic-alcohols	-0,92979	1E-10	mutualExclusion	Pedobacter->aliphatic-alcohols=correl_pearson
Pedobacter	Brevibacterium	-0,89676	1E-10	mutualExclusion	Pedobacter->Brevibacterium=correl_pearson
Pedobacter	Chroococcidiopsis	-0,72195	1E-10	mutualExclusion	Pedobacter->Chroococcidiopsis=correl_pearson
Pedobacter	Clostridium	-0,9239	1E-10	mutualExclusion	Pedobacter->Clostridium=correl_pearson
Pedobacter	Corynebacterium	-0,80392	1E-10	mutualExclusion	Pedobacter->Corynebacterium=correl_pearson

Pedobacter	Devosia	-0,94425	1E-10	mutualExclusion	Pedobacter->Devosia=correl_pearson
Pedobacter	Dyadobacter	-0,72388	1E-10	mutualExclusion	Pedobacter->Dyadobacter=correl_pearson
Pedobacter	Flavisolibacter	-0,96694	1E-10	mutualExclusion	Pedobacter->Flavisolibacter=correl_pearson
Pedobacter	Flavobacterium	-0,9354	1E-10	mutualExclusion	Pedobacter->Flavobacterium=correl_pearson
Pedobacter	furans	-0,92617	1E-10	mutualExclusion	Pedobacter->furans=correl_pearson
Pedobacter	Haemophilus	-0,66249	1E-10	mutualExclusion	Pedobacter->Haemophilus=correl_pearson
Pedobacter	Janthinobacterium	-0,68835	1E-10	mutualExclusion	Pedobacter->Janthinobacterium=correl_pearson
Pedobacter	Jeotgalicoccus	-0,81726	1E-10	mutualExclusion	Pedobacter->Jeotgalicoccus=correl_pearson
Pedobacter	Lactobacillus	-0,80375	1E-10	mutualExclusion	Pedobacter->Lactobacillus=correl_pearson
Pedobacter	Lysobacter	-0,76556	1E-10	mutualExclusion	Pedobacter->Lysobacter=correl_pearson
Pedobacter	Methylobacterium	-0,85209	1E-10	mutualExclusion	Pedobacter->Methylobacterium=correl_pearson
Pedobacter	monoterpenes	-0,98679	1E-10	mutualExclusion	Pedobacter->monoterpenes=correl_pearson
Pedobacter	Nocardioides	-0,94246	1E-10	mutualExclusion	Pedobacter->Nocardioides=correl_pearson
Pedobacter	norisoprenoids	-0,99982	1E-10	mutualExclusion	Pedobacter->norisoprenoids=correl_pearson
Pedobacter	Paenibacillus	-0,67818	1E-10	mutualExclusion	Pedobacter->Paenibacillus=correl_pearson
Pedobacter	Paracoccus	-0,99123	1E-10	mutualExclusion	Pedobacter->Paracoccus=correl_pearson
Pedobacter	Siccationidurans	-0,68715	1E-10	mutualExclusion	Pedobacter->Siccationidurans=correl_pearson
Pedobacter	Solirubrobacter	-0,79495	1E-10	mutualExclusion	Pedobacter->Solirubrobacter=correl_pearson
Pedobacter	Sphingomonas	-0,91261	1E-10	mutualExclusion	Pedobacter->Sphingomonas=correl_pearson
Pedobacter	trans-e-viniferina	-0,91075	1E-10	mutualExclusion	Pedobacter->trans-e-viniferina=correl_pearson
Pelomonas	cis-piceide	0,987895	0,05	copresence	Pelomonas->cis-piceide=correl_pearson

Pelomonas	Paenibacillus	0,988008	0,04	copresence	Pelomonas->Paenibacillus=correl_pearson
Pelomonas	Pedobacter	-0,72395	1E-10	mutualExclusion	Pelomonas->Pedobacter=correl_pearson
Pelomonas	Variovorax	-0,87358	1E-10	mutualExclusion	Pelomonas->Variovorax=correl_pearson
Prevotella	C-6-aldehydes	-0,68796	1E-10	mutualExclusion	Prevotella->C-6-aldehydes=correl_pearson
Prevotella	Dolosigranulum	-0,7026	1E-10	mutualExclusion	Prevotella->Dolosigranulum=correl_pearson
Prevotella	Rhizobium	-0,83177	1E-10	mutualExclusion	Prevotella->Rhizobium=correl_pearson
Pseudomonas	Achromobacter	-0,65146	1E-10	mutualExclusion	Pseudomonas->Achromobacter=correl_pearson
Pseudomonas	Brevibacterium	0,990472	0,01	copresence	Pseudomonas->Brevibacterium=correl_pearson
Pseudomonas	Candidatus-Moranella	0,996374	0,02	copresence	Pseudomonas->Candidatus-Moranella=correl_pearson
Pseudomonas	d-viniferina	0,994765	0,03	copresence	Pseudomonas->d-viniferina=correl_pearson
Pseudomonas	Herbaspirillum	-0,70944	1E-10	mutualExclusion	Pseudomonas->Herbaspirillum=correl_pearson
Pseudomonas	Lactobacillus	0,996644	0,02	copresence	Pseudomonas->Lactobacillus=correl_pearson
Pseudomonas	Meiothermus	0,981855	0,01	copresence	Pseudomonas->Meiothermus=correl_pearson
Pseudomonas	Methylobacterium	0,976408	0,01	copresence	Pseudomonas->Methylobacterium=correl_pearson
Pseudomonas	Pedobacter	-0,83874	1E-10	mutualExclusion	Pseudomonas->Pedobacter=correl_pearson
Pseudomonas	Roseomonas	0,978273	0,01	copresence	Pseudomonas->Roseomonas=correl_pearson
Pseudonocardia	Gluconobacter	-0,75804	1E-10	mutualExclusion	Pseudonocardia->Gluconobacter=correl_pearson
Pseudonocardia	Herbaspirillum	-0,82845	1E-10	mutualExclusion	Pseudonocardia->Herbaspirillum=correl_pearson
Pseudonocardia	Pedobacter	-0,82308	1E-10	mutualExclusion	Pseudonocardia->Pedobacter=correl_pearson
Ralstonia	Aquabacterium	-0,63747	1E-10	mutualExclusion	Ralstonia->Aquabacterium=correl_pearson
Ralstonia	Bacillus	-0,61264	1E-10	mutualExclusion	Ralstonia->Bacillus=correl_pearson
Reyranella	Acinetobacter	0,984138	0,02	copresence	Reyranella->Acinetobacter=correl_pearson
Reyranella	Chryseobacterium	0,999559	0,02	copresence	Reyranella->Chryseobacterium=correl_pearson
Reyranella	Corynebacterium	0,985659	0,02	copresence	Reyranella->Corynebacterium=correl_pearson
Reyranella	Janthinobacterium	0,997938	0,03	copresence	Reyranella->Janthinobacterium=correl_pearson

Reyranella	Jeotgalicoccus	0,982781	0,01	copresence	Reyranella->Jeotgalicoccus=correl_pearson
Reyranella	Lactobacillus	0,981697	0,03	copresence	Reyranella->Lactobacillus=correl_pearson
Reyranella	Meiothermus	0,987889	0,01	copresence	Reyranella->Meiothermus=correl_pearson
Reyranella	Mucilaginibacter	0,980382	0,01	copresence	Reyranella->Mucilaginibacter=correl_pearson
Reyranella	Pantoea	0,978148	0,05	copresence	Reyranella->Pantoea=correl_pearson
Reyranella	Pedobacter	-0,70661	1E-10	mutualExclusion	Reyranella->Pedobacter=correl_pearson
Reyranella	Siccationidurans	0,993984	0,03	copresence	Reyranella->Siccationidurans=correl_pearson
Reyranella	Spirosoma	0,985534	0,01	copresence	Reyranella->Spirosoma=correl_pearson
Reyranella	Staphylococcus	0,987203	0,01	copresence	Reyranella->Staphylococcus=correl_pearson
Reyranella	trans-piceatannolo	0,981117	0,05	copresence	Reyranella->trans-piceatannolo=correl_pearson
Rhizobium	Actinoplanes	-0,65991	1E-10	mutualExclusion	Rhizobium->Actinoplanes=correl_pearson
Rhizobium	Brevundimonas	-0,73542	1E-10	mutualExclusion	Rhizobium->Brevundimonas=correl_pearson
Rhizobium	Caulobacter	-0,65742	1E-10	mutualExclusion	Rhizobium->Caulobacter=correl_pearson
Rhizobium	cis-piceide	-0,62315	1E-10	mutualExclusion	Rhizobium->cis-piceide=correl_pearson
Rhizobium	Haemophilus	-0,59274	1E-10	mutualExclusion	Rhizobium->Haemophilus=correl_pearson
Rhizobium	Paraburkholderia	-0,91819	1E-10	mutualExclusion	Rhizobium->Paraburkholderia=correl_pearson
Rhodococcus	Herbaspirillum	-0,92937	1E-10	mutualExclusion	Rhodococcus->Herbaspirillum=correl_pearson
Rhodococcus	Pedobacter	-0,60083	1E-10	mutualExclusion	Rhodococcus->Pedobacter=correl_pearson
Rhodococcus	Pelomonas	0,985172	0,01	copresence	Rhodococcus->Pelomonas=correl_pearson
Rhodococcus	Rhizobium	-0,66617	1E-10	mutualExclusion	Rhodococcus->Rhizobium=correl_pearson
Rhodococcus	Variovorax	-0,87099	1E-10	mutualExclusion	Rhodococcus->Variovorax=correl_pearson
Roseomonas	Brevibacterium	0,984609	0,02	copresence	Roseomonas->Brevibacterium=correl_pearson
Roseomonas	Candidatus-Moranella	0,992365	0,04	copresence	Roseomonas->Candidatus-Moranella=correl_pearson
Roseomonas	d-viniferina	0,994302	0,05	copresence	Roseomonas->d-viniferina=correl_pearson
Roseomonas	Nocardioides	0,991537	0,02	copresence	Roseomonas->Nocardioides=correl_pearson

Roseomonas	Pedobacter	-0,9198	1E-10	mutualExclusion	Roseomonas->Pedobacter=correl_pearson
Roseomonas	Rudaea	0,996525	0,01	copresence	Roseomonas->Rudaea=correl_pearson
Roseomonas	Undibacterium	-0,759	1E-10	mutualExclusion	Roseomonas->Undibacterium=correl_pearson
Roseomonas	Variovorax	-0,82864	1E-10	mutualExclusion	Roseomonas->Variovorax=correl_pearson
Rubellimicrobium	Achromobacter	-0,88214	1E-10	mutualExclusion	Rubellimicrobium->Achromobacter=correl_pearson
Rubellimicrobium	benzenoids	0,993993	0,02	copresence	Rubellimicrobium->benzenoids=correl_pearson
Rubellimicrobium	Cupriavidus	-0,64493	1E-10	mutualExclusion	Rubellimicrobium->Cupriavidus=correl_pearson
Rubellimicrobium	Paracoccus	0,986842	0,05	copresence	Rubellimicrobium->Paracoccus=correl_pearson
Rubellimicrobium	Pedobacter	-0,96275	1E-10	mutualExclusion	Rubellimicrobium->Pedobacter=correl_pearson
Rubellimicrobium	Streptococcus	0,994545	0,05	copresence	Rubellimicrobium->Streptococcus=correl_pearson
Rubellimicrobium	Undibacterium	-0,66484	1E-10	mutualExclusion	Rubellimicrobium->Undibacterium=correl_pearson
Rubellimicrobium	Variovorax	-0,60927	1E-10	mutualExclusion	Rubellimicrobium->Variovorax=correl_pearson
Rudaea	aliphatic-alcohols	0,994589	0,05	copresence	Rudaea->aliphatic-alcohols=correl_pearson
Rudaea	Brevibacterium	0,990757	0,04	copresence	Rudaea->Brevibacterium=correl_pearson
Rudaea	Candidatus-Moranella	0,988946	0,02	copresence	Rudaea->Candidatus-Moranella=correl_pearson
Rudaea	Herbaspirillum	-0,65331	1E-10	mutualExclusion	Rudaea->Herbaspirillum=correl_pearson
Rudaea	Nocardioides	0,985872	0,01	copresence	Rudaea->Nocardioides=correl_pearson
Rudaea	Pedobacter	-0,93824	1E-10	mutualExclusion	Rudaea->Pedobacter=correl_pearson
Rudaea	Variovorax	-0,78326	1E-10	mutualExclusion	Rudaea->Variovorax=correl_pearson
Sediminibacterium	Undibacterium	-0,97883	1E-10	mutualExclusion	Sediminibacterium->Undibacterium=correl_pearson
Sediminibacterium	Variovorax	-0,6524	1E-10	mutualExclusion	Sediminibacterium->Variovorax=correl_pearson
Siccationidurans	Achromobacter	-0,62316	1E-10	mutualExclusion	Siccationidurans->Achromobacter=correl_pearson
Siccationidurans	Herbaspirillum	-0,62223	1E-10	mutualExclusion	Siccationidurans->Herbaspirillum=correl_pearson
Siccationidurans	Janthinobacterium	0,998849	0,01	copresence	Siccationidurans->Janthinobacterium=correl_pearson

Siccationidurans	Pantoea	0,993525	0,02	copresence	Siccationidurans->Pantoea=correl_pearson
Siccationidurans	Spirosoma	0,977384	0,04	copresence	Siccationidurans->Spirosoma=correl_pearson
Siccationidurans	Undibacterium	-0,96923	1E-10	mutualExclusion	Siccationidurans->Undibacterium=correl_pearson
Siccationidurans	Variovorax	-0,60067	1E-10	mutualExclusion	Siccationidurans->Variovorax=correl_pearson
Solirubrobacter	Achromobacter	-0,81696	1E-10	mutualExclusion	Solirubrobacter->Achromobacter=correl_pearson
Solirubrobacter	Actinomycetospora	1	0,04	copresence	Solirubrobacter->Actinomycetospora=correl_pearson
Solirubrobacter	Pantoea	0,98411	0,05	copresence	Solirubrobacter->Pantoea=correl_pearson
Sphingobacterium	Achromobacter	-0,87081	1E-10	mutualExclusion	Sphingobacterium->Achromobacter=correl_pearson
Sphingobacterium	Pedobacter	-0,8183	1E-10	mutualExclusion	Sphingobacterium->Pedobacter=correl_pearson
Sphingobacterium	trans-e-viniferina	0,98263	0,05	copresence	Sphingobacterium->trans-e-viniferina=correl_pearson
Sphingobacterium	Undibacterium	-0,82668	1E-10	mutualExclusion	Sphingobacterium->Undibacterium=correl_pearson
Sphingomonas	Achromobacter	-0,62638	1E-10	mutualExclusion	Sphingomonas->Achromobacter=correl_pearson
Sphingomonas	Massilia	0,978711	0,01	copresence	Sphingomonas->Massilia=correl_pearson
Sphingomonas	Variovorax	-0,65778	1E-10	mutualExclusion	Sphingomonas->Variovorax=correl_pearson
Spirosoma	Chryseobacterium	0,990107	0,02	copresence	Spirosoma->Chryseobacterium=correl_pearson
Spirosoma	Mucilaginibacter	0,999536	0,04	copresence	Spirosoma->Mucilaginibacter=correl_pearson
Spirosoma	Novosphingobium	0,996133	0,01	copresence	Spirosoma->Novosphingobium=correl_pearson
Spirosoma	Pedobacter	-0,58246	1E-10	mutualExclusion	Spirosoma->Pedobacter=correl_pearson
Staphylococcus	Acinetobacter	0,993951	0,03	copresence	Staphylococcus->Acinetobacter=correl_pearson
Staphylococcus	Chryseobacterium	0,98481	0,01	copresence	Staphylococcus->Chryseobacterium=correl_pearson
Staphylococcus	d-viniferina	0,982377	0,02	copresence	Staphylococcus->d-viniferina=correl_pearson
Staphylococcus	Paenibacillus	0,986529	0,01	copresence	Staphylococcus->Paenibacillus=correl_pearson
Staphylococcus	Pedobacter	-0,78211	1E-10	mutualExclusion	Staphylococcus->Pedobacter=correl_pearson
Staphylococcus	Pseudomonas	0,994224	0,03	copresence	Staphylococcus->Pseudomonas=correl_pearson
Staphylococcus	Undibacterium	-0,90631	1E-10	mutualExclusion	Staphylococcus->Undibacterium=correl_pearson

Steroidobacter	Dolosigranulum	-0,80091	1E-10	mutualExclusion	Steroidobacter->Dolosigranulum=correl_pearson
Steroidobacter	Flexibacter	0,999087	0,05	copresence	Steroidobacter->Flexibacter=correl_pearson
Streptococcus	Achromobacter	-0,92252	1E-10	mutualExclusion	Streptococcus->Achromobacter=correl_pearson
Streptococcus	benzenoids	0,977799	0,03	copresence	Streptococcus->benzenoids=correl_pearson
Streptococcus	Cupriavidus	-0,63482	1E-10	mutualExclusion	Streptococcus->Cupriavidus=correl_pearson
Streptococcus	furans	0,984637	0,04	copresence	Streptococcus->furans=correl_pearson
Streptococcus	monoterpenes	0,981566	0,02	copresence	Streptococcus->monoterpenes=correl_pearson
Streptococcus	Pedobacter	-0,93834	1E-10	mutualExclusion	Streptococcus->Pedobacter=correl_pearson
Streptococcus	trans-e-viniferina	0,991715	0,03	copresence	Streptococcus->trans-e-viniferina=correl_pearson
trans-e-viniferina	Candidatus-Tremblaya	0,9826	0,01	copresence	trans-e-viniferina->Candidatus-Tremblaya=correl_pearson
trans-e-viniferina	Clostridium	0,982957	0,04	copresence	trans-e-viniferina->Clostridium=correl_pearson
trans-e-viniferina	Flavobacterium	0,993223	0,05	copresence	trans-e-viniferina->Flavobacterium=correl_pearson
trans-e-viniferina	Rubellimicrobium	0,988289	0,03	copresence	trans-e-viniferina->Rubellimicrobium=correl_pearson
trans-e-viniferina	Undibacterium	-0,75299	1E-10	mutualExclusion	trans-e-viniferina->Undibacterium=correl_pearson
trans-piceatannolo	Dolosigranulum	-0,68984	1E-10	mutualExclusion	trans-piceatannolo->Dolosigranulum=correl_pearson
trans-piceatannolo	Undibacterium	-0,98875	1E-10	mutualExclusion	trans-piceatannolo->Undibacterium=correl_pearson
trans-piceide	Achromobacter	-0,64843	1E-10	mutualExclusion	trans-piceide->Achromobacter=correl_pearson
trans-piceide	aliphatic-alcohols	0,99446	0,01	copresence	trans-piceide->aliphatic-alcohols=correl_pearson
trans-piceide	Cupriavidus	-0,57966	1E-10	mutualExclusion	trans-piceide->Cupriavidus=correl_pearson
trans-piceide	Nocardioides	0,999623	0,01	copresence	trans-piceide->Nocardioides=correl_pearson
trans-piceide	Pedobacter	-0,95009	1E-10	mutualExclusion	trans-piceide->Pedobacter=correl_pearson
trans-piceide	Rudaea	0,983912	0,02	copresence	trans-piceide->Rudaea=correl_pearson
trans-piceide	Undibacterium	-0,6535	1E-10	mutualExclusion	trans-piceide->Undibacterium=correl_pearson
trans-piceide	Variovorax	-0,86065	1E-10	mutualExclusion	trans-piceide->Variovorax=correl_pearson
trans-resveratrolo	Achromobacter	-0,72158	1E-10	mutualExclusion	trans-resveratrolo->Achromobacter=correl_pearson

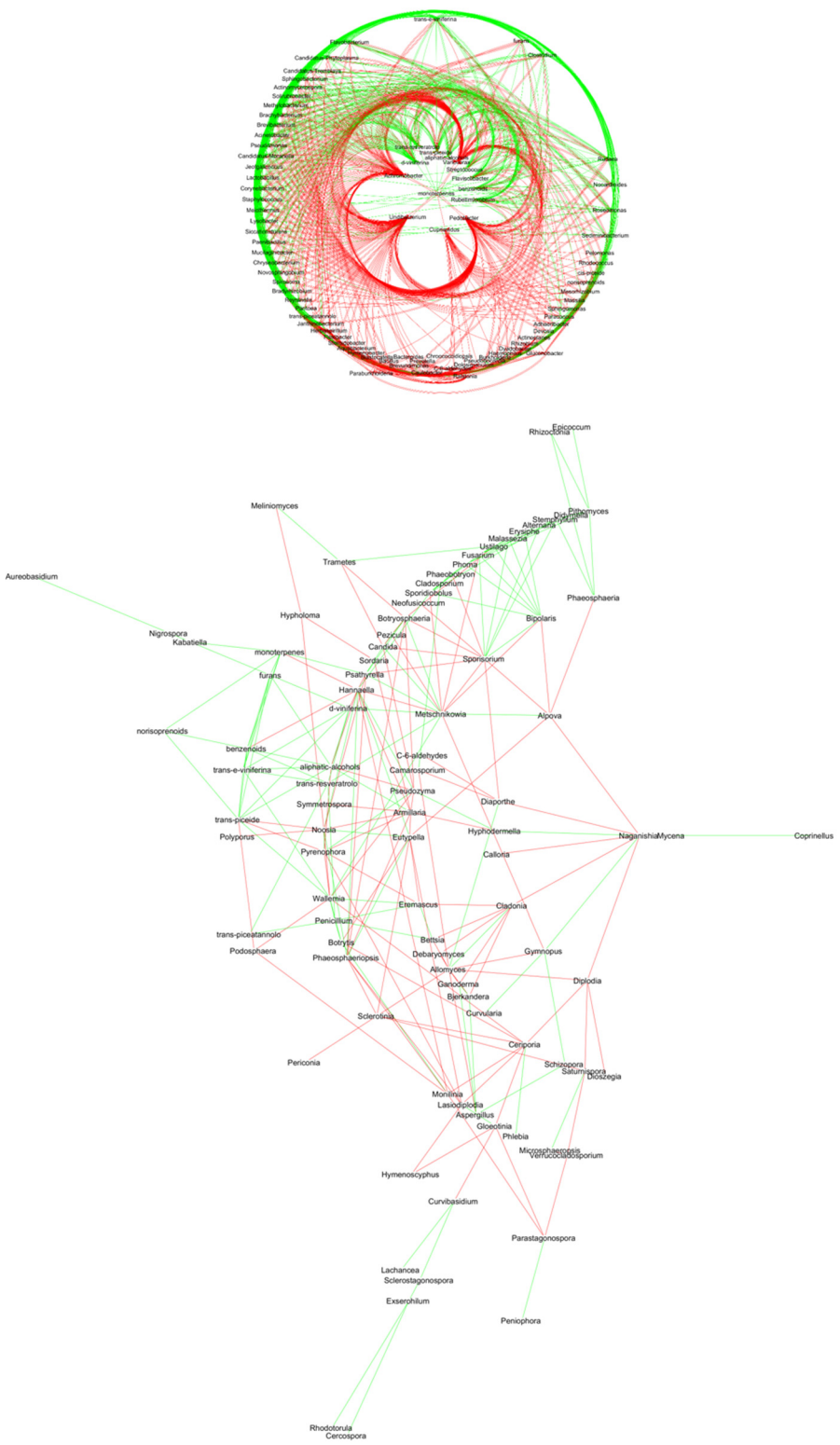
trans-resveratrolo	Brevibacterium	0,991893	0,04	copresence	trans-resveratrolo->Brevibacterium=correl_pearson
trans-resveratrolo	Herbaspirillum	-0,62228	1E-10	mutualExclusion	trans-resveratrolo->Herbaspirillum=correl_pearson
trans-resveratrolo	Jeotgalicoccus	0,990123	0,04	copresence	trans-resveratrolo->Jeotgalicoccus=correl_pearson
trans-resveratrolo	Pedobacter	-0,8363	1E-10	mutualExclusion	trans-resveratrolo->Pedobacter=correl_pearson
trans-resveratrolo	Undibacterium	-0,8873	1E-10	mutualExclusion	trans-resveratrolo->Undibacterium=correl_pearson
trans-resveratrolo	Variovorax	-0,6807	1E-10	mutualExclusion	trans-resveratrolo->Variovorax=correl_pearson
Undibacterium	Actinomycetospora	-0,87692	1E-10	mutualExclusion	Undibacterium->Actinomycetospora=correl_pearson
Undibacterium	aliphatic-alcohols	-0,72894	1E-10	mutualExclusion	Undibacterium->aliphatic-alcohols=correl_pearson
Undibacterium	Aquabacterium	-0,93217	1E-10	mutualExclusion	Undibacterium->Aquabacterium=correl_pearson
Undibacterium	benzenoids	-0,68662	1E-10	mutualExclusion	Undibacterium->benzenoids=correl_pearson
Undibacterium	Blastocatella	-0,61792	1E-10	mutualExclusion	Undibacterium->Blastocatella=correl_pearson
Undibacterium	Brachybacterium	-0,82963	1E-10	mutualExclusion	Undibacterium->Brachybacterium=correl_pearson
Undibacterium	Bradyrhizobium	-0,98074	1E-10	mutualExclusion	Undibacterium->Bradyrhizobium=correl_pearson
Undibacterium	Brevundimonas	-0,77483	1E-10	mutualExclusion	Undibacterium->Brevundimonas=correl_pearson
Undibacterium	Candidatus-Moranella	-0,83302	1E-10	mutualExclusion	Undibacterium->Candidatus-Moranella=correl_pearson
Undibacterium	Candidatus-Phytoplasma	-0,81091	1E-10	mutualExclusion	Undibacterium->Candidatus-Phytoplasma=correl_pearson
Undibacterium	Candidatus-Tremblaya	-0,68162	1E-10	mutualExclusion	Undibacterium->Candidatus-Tremblaya=correl_pearson
Undibacterium	Chryseobacterium	-0,9655	1E-10	mutualExclusion	Undibacterium->Chryseobacterium=correl_pearson
Undibacterium	Corynebacterium	-0,89903	1E-10	mutualExclusion	Undibacterium->Corynebacterium=correl_pearson
Undibacterium	d-viniferina	-0,82318	1E-10	mutualExclusion	Undibacterium->d-viniferina=correl_pearson
Undibacterium	Flavisolibacter	-0,69114	1E-10	mutualExclusion	Undibacterium->Flavisolibacter=correl_pearson

Undibacterium	Flexibacter	-0,98743	1E-10	mutualExclusion	Undibacterium->Flexibacter=correl_pearson
Undibacterium	Hymenobacter	-0,94072	1E-10	mutualExclusion	Undibacterium->Hymenobacter=correl_pearson
Undibacterium	Jeotgalicoccus	-0,89139	1E-10	mutualExclusion	Undibacterium->Jeotgalicoccus=correl_pearson
Undibacterium	Lactobacillus	-0,89103	1E-10	mutualExclusion	Undibacterium->Lactobacillus=correl_pearson
Undibacterium	Methylobacterium	-0,86307	1E-10	mutualExclusion	Undibacterium->Methylobacterium=correl_pearson
Undibacterium	Paenibacillus	-0,93148	1E-10	mutualExclusion	Undibacterium->Paenibacillus=correl_pearson
Undibacterium	Pantoea	-0,94764	1E-10	mutualExclusion	Undibacterium->Pantoea=correl_pearson
Undibacterium	Pelomonas	-0,86426	1E-10	mutualExclusion	Undibacterium->Pelomonas=correl_pearson
Undibacterium	Prevotella	-0,77928	1E-10	mutualExclusion	Undibacterium->Prevotella=correl_pearson
Undibacterium	Pseudomonas	-0,87675	1E-10	mutualExclusion	Undibacterium->Pseudomonas=correl_pearson
Undibacterium	Reyranella	-0,95977	1E-10	mutualExclusion	Undibacterium->Reyranella=correl_pearson
Undibacterium	Rhodococcus	-0,85866	1E-10	mutualExclusion	Undibacterium->Rhodococcus=correl_pearson
Undibacterium	Rudaea	-0,75055	1E-10	mutualExclusion	Undibacterium->Rudaea=correl_pearson
Undibacterium	Solirubrobacter	-0,87692	1E-10	mutualExclusion	Undibacterium->Solirubrobacter=correl_pearson
Undibacterium	Spirosoma	-0,98411	1E-10	mutualExclusion	Undibacterium->Spirosoma=correl_pearson
Undibacterium	Steroidobacter	-0,99066	1E-10	mutualExclusion	Undibacterium->Steroidobacter=correl_pearson
Undibacterium	Streptococcus	-0,66251	1E-10	mutualExclusion	Undibacterium->Streptococcus=correl_pearson
Variovorax	Acinetobacter	-0,73354	1E-10	mutualExclusion	Variovorax->Acinetobacter=correl_pearson
Variovorax	Actinoplanes	-0,83157	1E-10	mutualExclusion	Variovorax->Actinoplanes=correl_pearson
Variovorax	benzenoids	-0,69163	1E-10	mutualExclusion	Variovorax->benzenoids=correl_pearson
Variovorax	Brachybacterium	-0,64282	1E-10	mutualExclusion	Variovorax->Brachybacterium=correl_pearson

Variovorax	Burkholderia	-0,8133	1E-10	mutualExclusion	Variovorax->Burkholderia=correl_pearson
Variovorax	Candidatus-Moranella	-0,79373	1E-10	mutualExclusion	Variovorax->Candidatus-Moranella=correl_pearson
Variovorax	Caulobacter	-0,64403	1E-10	mutualExclusion	Variovorax->Caulobacter=correl_pearson
Variovorax	Corynebacterium	-0,76795	1E-10	mutualExclusion	Variovorax->Corynebacterium=correl_pearson
Variovorax	Devosia	-0,85419	1E-10	mutualExclusion	Variovorax->Devosia=correl_pearson
Variovorax	Flavisolibacter	-0,68844	1E-10	mutualExclusion	Variovorax->Flavisolibacter=correl_pearson
Variovorax	Lysobacter	-0,77158	1E-10	mutualExclusion	Variovorax->Lysobacter=correl_pearson
Variovorax	Meiothermus	-0,78702	1E-10	mutualExclusion	Variovorax->Meiothermus=correl_pearson
Variovorax	Mesorhizobium	-0,73042	1E-10	mutualExclusion	Variovorax->Mesorhizobium=correl_pearson
Variovorax	monoterpenes	-0,63946	1E-10	mutualExclusion	Variovorax->monoterpenes=correl_pearson
Variovorax	Mucilaginibacter	-0,64414	1E-10	mutualExclusion	Variovorax->Mucilaginibacter=correl_pearson
Variovorax	Paracoccus	-0,62653	1E-10	mutualExclusion	Variovorax->Paracoccus=correl_pearson
Variovorax	Prevotella	-0,71399	1E-10	mutualExclusion	Variovorax->Prevotella=correl_pearson
Variovorax	Pseudomonas	-0,76311	1E-10	mutualExclusion	Variovorax->Pseudomonas=correl_pearson
Variovorax	Pseudonocardia	-0,97206	1E-10	mutualExclusion	Variovorax->Pseudonocardia=correl_pearson
Variovorax	Reyranella	-0,68268	1E-10	mutualExclusion	Variovorax->Reyranella=correl_pearson
Variovorax	Spirosoma	-0,65905	1E-10	mutualExclusion	Variovorax->Spirosoma=correl_pearson
Variovorax	Staphylococcus	-0,78043	1E-10	mutualExclusion	Variovorax->Staphylococcus=correl_pearson
Variovorax	trans-piceatannolo	-0,63779	1E-10	mutualExclusion	Variovorax->trans-piceatannolo=correl_pearson

Supplementary information Figure S1

Network diagrams based on correlation values for co-occurrences listed in Tables S2.



In the network diagrams, node size is proportional to the correlation node strength (ns = |ρ|). Edges show positive correlations (ρ > 0.95) colored in green, and negative correlations (ρ > 0.95) colored in red.