



biome-x
dna predictive analysis

OR Microbiome-X[®] advanced

Report analisi metagenomica del cavo orale

Analisi Metagenomica Report v2.0

RISULTATO IDENTIFICAZIONE METAGENOMICA

ID REPORT

615240_MBO-
W.lonXpress_014

Età



Sesso



Analisi

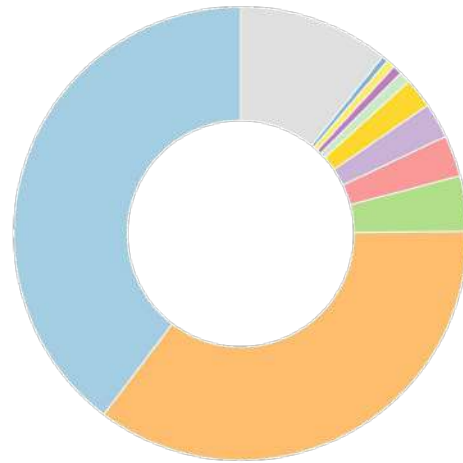
WGS

Data Report

2026-01-28

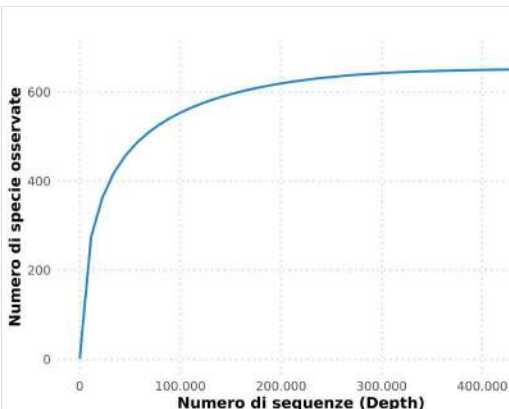
Tipo Campione

Risultati dell'**analisi metagenomica** eseguita sul campione biologico specificato. Tramite il sequenziamento del DNA totale (Whole-Genome Sequencing), sono stati identificati i microrganismi (**batteri, funghi, virus**) presenti nel campione e la loro abbondanza relativa. L'analisi fornisce un quadro dettagliato della composizione microbica, utile come supporto all'indagine clinica. L'interpretazione dei risultati deve essere correlata al tipo di campione, al sito di prelievo e al contesto clinico del paziente.



Curva di Rarefazione

La curva di rarefazione illustra il numero di specie microbiche identificate in funzione del numero di letture di sequenziamento, fornendo un'indicazione sulla completezza e l'adeguatezza del sequenziamento.



	Specie	Abbondanza %
	Pseudomonas sp. AK181	39.6959
	Pseudomonas brenneri	35.4764
	Cutibacterium acnes	3.9329
	Pseudomonas putida	2.9537
	Pseudomonas sp. TMW 2.1634	2.5277
	Pseudomonas sp. CCI1.1	2.1271
	Stenotrophomonas maltophilia	0.8105
	Pseudomonas hygromyciniae	0.6679
	Burkholderia contaminans	0.6186
	Pseudomonas aeruginosa	0.4276
	Altri Taxa	10.7644

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TAVOLA TASSONOMICA

Questa sezione presenta l'elenco completo e granulare di ogni singolo microrganismo rilevato nel campione biologico tramite analisi metagenomica. I risultati sono strutturati secondo la classificazione tassonomica ufficiale (Phylum, Genere) e sono ordinati in base all'abbondanza relativa (%) di ciascuna specie, dalla più prevalente alla più rara.

Phylum	Genere	Specie	Abbondanza %
Pseudomonadota	Pseudomonas	Pseudomonas sp. AK181	39.6959
Pseudomonadota	Pseudomonas	Pseudomonas brenneri	35.4764
Actinomycetota	Cutibacterium	Cutibacterium acnes	3.9329
Pseudomonadota	Pseudomonas	Pseudomonas putida	2.9537
Pseudomonadota	Pseudomonas	Pseudomonas sp. TMW 2.1634	2.5277
Pseudomonadota	Pseudomonas	Pseudomonas sp. CCI1.1	2.1271
Pseudomonadota	Stenotrophomonas	Stenotrophomonas maltophilia	0.8105
Pseudomonadota	Pseudomonas	Pseudomonas hygromyctinae	0.6679
Pseudomonadota	Burkholderia	Burkholderia contaminans	0.6186
Pseudomonadota	Pseudomonas	Pseudomonas aeruginosa	0.4276
Pseudomonadota	Stenotrophomonas	Stenotrophomonas forensis	0.3983
Pseudomonadota	Pseudomonas	Pseudomonas rhodesiae	0.3952
Basidiomycota	Malassezia	Malassezia restricta	0.3739
Pseudomonadota	Pseudomonas	Pseudomonas sp. BIOMIG1BAC	0.3444
Pseudomonadota	Pseudomonas	Pseudomonas fluorescens	0.2881
Pseudomonadota	Pseudomonas	Pseudomonas veronii	0.2827
Pseudomonadota	Pseudomonas	Pseudomonas synxantha	0.2404
Pseudomonadota	Stutzerimonas	Stutzerimonas stutzeri	0.2250
Pseudomonadota	Pseudomonas	Pseudomonas fragi	0.1980
Pseudomonadota	Pseudomonas	Pseudomonas sp. SXM-1	0.1733
Pseudomonadota	Pseudomonas	Pseudomonas alloputida	0.1710
Bacteroidota	Bacteroides	Bacteroides caccae	0.1602
Pseudomonadota	Haemophilus	Haemophilus parainfluenzae	0.1572
Pseudomonadota	Pseudomonas	Pseudomonas sp. 7-41	0.1564
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP215	0.1564
Pseudomonadota	Pseudomonas	Pseudomonas lyxosi	0.1502
Pseudomonadota	Pseudomonas	Pseudomonas sp. WMBT8	0.1387
Pseudomonadota	Pseudomonas	Pseudomonas juntendi	0.1356
Pseudomonadota	Pseudomonas	Pseudomonas mandelii	0.1356
Pseudomonadota	Pseudomonas	Pseudomonas tohonis	0.1233
Pseudomonadota	Pseudomonas	Pseudomonas sp. CYM-20-01	0.1225
Bacillota	Staphylococcus	Staphylococcus epidermidis	0.1210
Actinomycetota	Rothia	Rothia mucilaginosa	0.1125
Bacteroidota	Bacteroides	Bacteroides fragilis	0.1125
Uroviricota	Purivirus	Purivirus UFJFPdIW6	0.1117
Pseudomonadota	Pseudomonas	Pseudomonas sp. Y5-11	0.1102
Pseudomonadota	Pseudomonas	Pseudomonas sp. PS1(2021)	0.1017
Actinomycetota	Rothia	Rothia dentocariosa	0.1009

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Pseudomonadota	Pseudomonas	Pseudomonas simiae	0.1009
Bacteroidota	Segatella	Segatella copri	0.0917
Pseudomonadota	Pseudomonas	Pseudomonas chlororaphis	0.0917
Pseudomonadota	Ralstonia	Ralstonia sp. RRA	0.0917
Pseudomonadota	Pseudomonas	Pseudomonas sp. HN8-3	0.0863
Bacillota	Staphylococcus	Staphylococcus capitis	0.0817
Actinomycetota	Corynebacterium	Corynebacterium kroppenstedtii	0.0809
Pseudomonadota	Pseudomonas	Pseudomonas marincola	0.0778
Pseudomonadota	Pandoraea	Pandoraea pnomenusa	0.0747
Bacteroidota	Phocaeicola	Phocaeicola vulgatus	0.0740
Bacillota	Staphylococcus	Staphylococcus warneri	0.0724
Pseudomonadota	Enterobacter	Enterobacter hormaechei	0.0647
Pseudomonadota	Pseudomonas	Pseudomonas sp. LG1D9	0.0639
Pseudomonadota	Pseudomonas	Pseudomonas sp. GOM7	0.0609
Actinomycetota	Cutibacterium	Cutibacterium granulosum	0.0593
Pseudomonadota	Pseudomonas	Pseudomonas sp. ADAK18	0.0593
Pseudomonadota	Klebsiella	Klebsiella grimontii	0.0578
Pseudomonadota	Pseudomonas	Pseudomonas sp. DTU12.1	0.0532
Pseudomonadota	Pseudomonas	Pseudomonas versuta	0.0524
Pseudomonadota	Caldimonas	Caldimonas aquatica	0.0516
Actinomycetota	Bifidobacterium	Bifidobacterium longum	0.0478
Pseudomonadota	Pseudomonas	Pseudomonas sp. Pseusp16	0.0455
Pseudomonadota	Pseudomonas	Pseudomonas poae	0.0439
Pseudomonadota	Ralstonia	Ralstonia holmesii	0.0431
Bacteroidota	Alistipes	Alistipes putredinis	0.0408
Pseudomonadota	Pseudomonas	Pseudomonas imrae	0.0408
Pseudomonadota	Stutzerimonas	Stutzerimonas chloritidismutans	0.0408
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-040	0.0401
Basidiomycota	Malassezia	Malassezia globosa	0.0395
Pseudomonadota	Paracoccus	Paracoccus marcusii	0.0377
Pseudomonadota	Pseudomonas	Pseudomonas sp. So3.2b	0.0377
Bacillota	Phascolarctobacterium	Phascolarctobacterium faecium	0.0370
Bacillota	Streptococcus	Streptococcus sanguinis	0.0370
Bacteroidota	Bacteroides	Bacteroides ovatus	0.0370
Pseudomonadota	Neisseria	Neisseria sicca	0.0370
Bacillota	Veillonella	Veillonella parvula	0.0347
Pseudomonadota	Pseudomonas	Pseudomonas mucidolens	0.0331
Bacteroidota	Alistipes	Alistipes onderdonkii	0.0324
Pseudomonadota	Pseudomonas	Pseudomonas donghuensis	0.0324
Bacillota	Faecalibacterium	Faecalibacterium prausnitzii	0.0308
Pseudomonadota	Pseudomonas	Pseudomonas kurunegalensis	0.0308
Bacteroidota	Bacteroides	Bacteroides uniformis	0.0300
Bacillota	Lawsonibacter	Lawsonibacter asaccharolyticus	0.0285
Pseudomonadota	Pseudomonas	Pseudomonas salmasensis	0.0285
Pseudomonadota	Pseudomonas	Pseudomonas sp. HLS-6	0.0285
Pseudomonadota	Pseudomonas	Pseudomonas extremaustralis	0.0277
Pseudomonadota	Pseudomonas	Pseudomonas fortuita	0.0277
Pseudomonadota	Pseudomonas	Pseudomonas trivialis	0.0277

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Bacteroidota	Alistipes	Alistipes communis	0.0270
Pseudomonadota	Pseudomonas	Pseudomonas sp. Z1-12	0.0270
Bacillota	Staphylococcus	Staphylococcus auricularis	0.0262
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. SAU14A_NAIMI4_5	0.0262
Bacillota	Flavonifractor	Flavonifractor plautii	0.0254
Pseudomonadota	Pseudomonas	Pseudomonas atacamensis	0.0254
Pseudomonadota	Pseudomonas	Pseudomonas orientalis	0.0254
Bacillota	Ruminococcus	Ruminococcus bicirculans (ex Wegman et al. 2014)	0.0247
Pseudomonadota	Kluyvera	Kluyvera intermedia	0.0247
Pseudomonadota	Pseudomonas	Pseudomonas lurida	0.0247
Pseudomonadota	Pseudomonas	Pseudomonas sp. 31-12	0.0247
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP818	0.0247
Pseudomonadota	Pseudomonas	Pseudomonas solani	0.0239
Bacillota	Gemella	Gemella haemolysans	0.0231
Bacteroidota	Alistipes	Alistipes shahii	0.0231
Bacteroidota	Epilithonimonas	Epilithonimonas vandammei	0.0231
Pseudomonadota	Pseudomonas	Pseudomonas sp. B16120	0.0231
Actinomycetota	Schaalia	Schaalia odontolytica	0.0223
Bacillota	Lactobacillus	Lactobacillus crispatus	0.0223
Bacillota	Streptococcus	Streptococcus mitis	0.0223
Pseudomonadota	Pseudomonas	Pseudomonas lactis	0.0223
Pseudomonadota	Salmonella	Salmonella enterica	0.0223
Bacteroidota	Bacteroides	Bacteroides thetaiotaomicron	0.0216
Bacteroidota	Parabacteroides	Parabacteroides distasonis	0.0216
Pseudomonadota	Faucicola	Faucicola osloensis	0.0216
Pseudomonadota	Pseudomonas	Pseudomonas helleri	0.0216
Pseudomonadota	Pseudomonas	Pseudomonas sp. AE27	0.0216
Pseudomonadota	Pseudomonas	Pseudomonas sp. WCS374	0.0216
Bacillota	Staphylococcus	Staphylococcus pasteurii	0.0208
Pseudomonadota	Pseudomonas	Pseudomonas brassicacearum	0.0208
Pseudomonadota	Pseudomonas	Pseudomonas gorinensis	0.0208
Actinomycetota	Bifidobacterium	Bifidobacterium adolescentis	0.0200
Pseudomonadota	Citrobacter	Citrobacter koseri	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas amygdali	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas monteilii	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas palleroniana	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP1911	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas sp. MYb193	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas tremae	0.0200
Pseudomonadota	Pseudomonas	Pseudomonas corrugata	0.0185
Pseudomonadota	Pseudomonas	Pseudomonas sp. FDAARGOS_380	0.0185
Pseudomonadota	Pseudomonas	Pseudomonas sp. KT_2_4	0.0177
Pseudomonadota	Stenotrophomonas	Stenotrophomonas ryadhensis	0.0177
Verrucomicrobiota	Akkermansia	Akkermansia muciniphila	0.0177
Actinomycetota	Actinomyces	Actinomyces oris	0.0169

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Actinomycetota	Micrococcus	Micrococcus luteus	0.0169
Bacteroidota	Barnesiella	Barnesiella intestinihominis	0.0169
Bacteroidota	Phocaeicola	Phocaeicola dorei	0.0169
Pseudomonadota	Pseudomonas	Pseudomonas antarctica	0.0169
Pseudomonadota	Pseudomonas	Pseudomonas canadensis	0.0169
Bacillota	Acidaminococcus	Acidaminococcus intestini	0.0162
Bacteroidota	Bacteroides	Bacteroides sp. M10	0.0162
Pseudomonadota	Pseudomonas	Pseudomonas marginalis	0.0162
Pseudomonadota	Pseudomonas	Pseudomonas sp. D3-10	0.0162
Pseudomonadota	Pseudomonas	Pseudomonas sp. J380	0.0162
Pseudomonadota	Pseudomonas	Pseudomonas sp. LTGT-11-2Z	0.0162
Bacteroidota	Alistipes	Alistipes finegoldii	0.0146
Bacteroidota	Butyricimonas	Butyricimonas faecihominis	0.0146
Pseudomonadota	Aeromonas	Aeromonas media	0.0146
Pseudomonadota	Klebsiella	Klebsiella quasipneumoniae	0.0146
Pseudomonadota	Pseudomonas	Pseudomonas asplenii	0.0146
Bacillota	Brochothrix	Brochothrix thermosphacta	0.0139
Pseudomonadota	Pseudomonas	Pseudomonas alkylphenolica	0.0139
Pseudomonadota	Brucella	Brucella pituitosa	0.0131
Actinomycetota	Bifidobacterium	Bifidobacterium breve	0.0123
Pseudomonadota	Achromobacter	Achromobacter deleyi	0.0123
Pseudomonadota	Agrobacterium	Agrobacterium pusense	0.0123
Pseudomonadota	Haemophilus	Haemophilus parahaemolyticus	0.0123
Actinomycetota	Corynebacterium	Corynebacterium matruchotii	0.0116
Actinomycetota	Eggerthella	Eggerthella lenta	0.0116
Bacteroidota	Odoribacter	Odoribacter splanchnicus	0.0116
Pseudomonadota	Pseudomonas	Pseudomonas sp. AO-1	0.0116
Pseudomonadota	Pseudomonas	Pseudomonas sp. CIP-10	0.0116
Pseudomonadota	Xanthomonas	Xanthomonas graminis	0.0116
Bacillota	Streptococcus	Streptococcus sp. 11-4097	0.0108
Bacteroidota	Alistipes	Alistipes ihumii	0.0108
Pseudomonadota	Neisseria	Neisseria bacilliformis	0.0108
Pseudomonadota	Pseudomonas	Pseudomonas quebecensis	0.0108
Pseudomonadota	Pseudomonas	Pseudomonas sp. MPB23	0.0108
Pseudomonadota	Rahnella	Rahnella inusitata	0.0108
Actinomycetota	Micrococcus	Micrococcus terreus	0.0100
Bacillota	Enterococcus	Enterococcus cecorum	0.0100
Bacillota	Levyella	Levyella massiliensis	0.0100
Bacillota	Ligilactobacillus	Ligilactobacillus murinus	0.0100
Bacillota	Peribacillus	Peribacillus frigoritolerans	0.0100
Bacillota	Roseburia	Roseburia faecis	0.0100
Bacillota	Simioa	Simioa sunii	0.0100
Bacillota	Streptococcus	Streptococcus infantis	0.0100
Bacteroidota	Alistipes	Alistipes indistinctus	0.0100
Bacteroidota	Prevotella	Prevotella melaninogenica	0.0100
Pseudomonadota	Escherichia	Escherichia coli	0.0100
Pseudomonadota	Pseudomonas	Pseudomonas paraveronii	0.0100
Pseudomonadota	Pseudomonas	Pseudomonas pohangensis	0.0100

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Pseudomonadota	Pseudomonas	Pseudomonas sp. R3-52-08	0.0100
Pseudomonadota	Vibrio	Vibrio cyclitrophicus	0.0100
Actinomycetota	Brevibacterium	Brevibacterium sp. CS2	0.0092
Bacillota	Faecalibacterium	Faecalibacterium duncaniae	0.0092
Bacillota	Finegoldia	Finegoldia magna	0.0092
Bacteroidota	Alistipes	Alistipes dispar	0.0092
Pseudomonadota	Psychrobacter	Psychrobacter sp. CLB018	0.0092
Actinomycetota	Actinomyces	Actinomyces massiliensis	0.0085
Actinomycetota	Rothia	Rothia aerea	0.0085
Bacillota	Bacillus	Bacillus subtilis	0.0085
Bacillota	Coprococcus	Coprococcus comes	0.0085
Bacillota	Dorea	Dorea formicigenerans	0.0085
Bacillota	Faecalibacillus	Faecalibacillus intestinalis	0.0085
Bacillota	Streptococcus	Streptococcus oralis	0.0085
Bacteroidota	Bacteroides	Bacteroides stercoris	0.0085
Bacteroidota	Porphyromonas	Porphyromonas gingivalis	0.0085
Pseudomonadota	Acinetobacter	Acinetobacter johnsonii	0.0085
Pseudomonadota	Pseudomonas	Pseudomonas azotoformans	0.0085
Pseudomonadota	Pseudomonas	Pseudomonas promysalinigenes	0.0085
Pseudomonadota	Pseudomonas	Pseudomonas sp. B19125	0.0085
Pseudomonadota	Stenotrophomonas	Stenotrophomonas lactitubi	0.0085
Uroviricota	Birpovirus	Birpovirus hominis	0.0085
Uroviricota	Oengusvirus	Oengusvirus oengus	0.0085
Actinomycetota	Actinomyces	Actinomyces israelii	0.0077
Bacillota	Staphylococcus	Staphylococcus hominis	0.0077
Pseudomonadota	Achromobacter	Achromobacter marplatensis	0.0077
Pseudomonadota	Herbaspirillum	Herbaspirillum huttiense	0.0077
Pseudomonadota	Neisseria	Neisseria gonorrhoeae	0.0077
Pseudomonadota	Pluralibacter	Pluralibacter gergoviae	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas arabinosi	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas moorei	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-048	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. Eqa60	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP833	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. Nvir	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. P105	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. R3-18-08	0.0077
Pseudomonadota	Pseudomonas	Pseudomonas sp. R4-35-07	0.0077
Uroviricota	Ceduovirus	Ceduovirus cv05802	0.0077
Actinomycetota	Actinomyces	Actinomyces sp. HMT 175	0.0069
Actinomycetota	Actinomyces	Actinomyces sp. oral taxon 171	0.0069
Bacillota	Enterocloster	Enterocloster clostridioformis	0.0069
Bacillota	Streptococcus	Streptococcus australis	0.0069
Bacillota	Streptococcus	Streptococcus gordonii	0.0069
Bacteroidota	Capnocytophaga	Capnocytophaga granulosa	0.0069
Pseudomonadota	Burkholderia	Burkholderia vietnamiensis	0.0069
Pseudomonadota	Paraburkholderia	Paraburkholderia pallida	0.0069

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Pseudomonadota	Pseudomonas	Pseudomonas sp. SG20052	0.0069
Pseudomonadota	Pseudomonas	Pseudomonas sp. VD9	0.0069
Pseudomonadota	Pseudomonas	Pseudomonas tolaasii	0.0069
Pseudomonadota	Xanthomonas	Xanthomonas campestris	0.0069
Pseudomonadota	Xanthomonas	Xanthomonas translucens	0.0069
Thermodesulfobacteri ota	Bilophila	Bilophila wadsworthia	0.0069
Basidiomycota	Kwoniella	Kwoniella dejecticola	0.0064
Actinomycetota	Gordonia	Gordonia bronchialis	0.0062
Actinomycetota	Rhodococcoides	Rhodococcoides fascians	0.0062
Actinomycetota	Tessaracoccus	Tessaracoccus timonensis	0.0062
Bacillota	Gemella	Gemella sanguinis	0.0062
Bacillota	Granulicatella	Granulicatella elegans	0.0062
Bacillota	Roseburia	Roseburia hominis	0.0062
Bacillota	Ruthenibacterium	Ruthenibacterium lactatiformans	0.0062
Bacillota	Staphylococcus	Staphylococcus saccharolyticus	0.0062
Bacillota	Streptococcus	Streptococcus sp. A12	0.0062
Bacillota	Vescimonas	Vescimonas coprocola	0.0062
Bacteroidota	Bacteroides	Bacteroides eggerthii	0.0062
Bacteroidota	Capnocytophaga	Capnocytophaga endodontalis	0.0062
Bacteroidota	Prevotella	Prevotella intermedia	0.0062
Deinococcota	Thermus	Thermus thermophilus	0.0062
Pseudomonadota	Aggregatibacter	Aggregatibacter sp. 2125159857	0.0062
Pseudomonadota	Haematobacter	Haematobacter massiliensis	0.0062
Pseudomonadota	Haemophilus	Haemophilus pittmaniae	0.0062
Pseudomonadota	Morococcus	Morococcus cerebrosus	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas asgharzadehiana	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP2338	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas sp. GXZC	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas sp. N2-3-1-14	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas sp. R1-1	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas sp. Z1-14	0.0062
Pseudomonadota	Pseudomonas	Pseudomonas yamanorum	0.0062
Pseudomonadota	Pseudoxanthomonas	Pseudoxanthomonas mexicana	0.0062
Uroviricota	Carjivirus	Carjivirus communis	0.0062
Actinomycetota	Corynebacterium	Corynebacterium macginleyi	0.0054
Actinomycetota	Corynebacterium	Corynebacterium sanguinis	0.0054
Actinomycetota	Cutibacterium	Cutibacterium avidum	0.0054
Actinomycetota	Janibacter	Janibacter indicus	0.0054
Actinomycetota	Microbacterium	Microbacterium sp. SL75	0.0054
Ascomycota	Penicillium	Penicillium rubens	0.0054
Bacillota	Dorea	Dorea longicatena	0.0054
Bacillota	Streptococcus	Streptococcus nidrosiense	0.0054
Bacteroidota	Bacteroides	Bacteroides xylanisolvens	0.0054
Bacteroidota	Parabacteroides	Parabacteroides absconsus	0.0054

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Pseudomonadota	Achromobacter	Achromobacter sp. PD1	0.0054
Pseudomonadota	Acinetobacter	Acinetobacter sp. TTH0-4	0.0054
Pseudomonadota	Agrobacterium	Agrobacterium tumefaciens	0.0054
Pseudomonadota	Caulobacter	Caulobacter segnis	0.0054
Pseudomonadota	Haemophilus	Haemophilus haemolyticus	0.0054
Pseudomonadota	Klebsiella	Klebsiella pneumoniae	0.0054
Pseudomonadota	Neisseria	Neisseria sp. CP9	0.0054
Pseudomonadota	Neisseria	Neisseria subflava	0.0054
Pseudomonadota	Pseudomonas	Pseudomonas asiatica	0.0054
Pseudomonadota	Pseudomonas	Pseudomonas bijjeensis	0.0054
Pseudomonadota	Pseudomonas	Pseudomonas guariconensis	0.0054
Pseudomonadota	Pseudomonas	Pseudomonas shahriarae	0.0054
Pseudomonadota	Pseudomonas	Pseudomonas sp. FJ2-5-13	0.0054
Pseudomonadota	Pseudomonas	Pseudomonas sp. HN11	0.0054
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. ESTM1D_MKCIP4_1	0.0054
Pseudomonadota	Vibrio	Vibrio palustris	0.0054
Uroviricota	Birpovirus	Birpovirus hiberniae	0.0054
Uroviricota	Tigrovirus	Tigrovirus phiE094	0.0054
Actinomycetota	Actinomyces	Actinomyces sp. oral taxon 169	0.0046
Actinomycetota	Actinomycetospora	Actinomycetospora sp. CA-084318	0.0046
Actinomycetota	Corynebacterium	Corynebacterium jeikeium	0.0046
Actinomycetota	Gordonia	Gordonia sp. w5E2	0.0046
Actinomycetota	Kocuria	Kocuria palustris	0.0046
Actinomycetota	Micrococcus	Micrococcus yunnanensis	0.0046
Actinomycetota	Varibaculum	Varibaculum prostatecancerukia	0.0046
Bacillota	Dolosigranulum	Dolosigranulum pigrum	0.0046
Pseudomonadota	Acinetobacter	Acinetobacter ursingii	0.0046
Pseudomonadota	Delftia	Delftia tsuruhatensis	0.0046
Pseudomonadota	Klebsiella	Klebsiella variicola	0.0046
Pseudomonadota	Neisseria	Neisseria meningitidis	0.0046
Pseudomonadota	Pantoea	Pantoea agglomerans	0.0046
Pseudomonadota	Paracoccus	Paracoccus sp. SJTW-4	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas ogarae	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas protegens	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sivasensis	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-015	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP597	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. LG1E9	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. NFX183	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. NS1(2017)	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. P5_109	0.0046
Pseudomonadota	Pseudomonas	Pseudomonas sp. PLMAX	0.0046
Pseudomonadota	Shinella	Shinella zoogloeoides	0.0046
Pseudomonadota	Solilutibacter	Solilutibacter oculi	0.0046
Pseudomonadota	Sphingomonas	Sphingomonas suaedae	0.0046
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp.	0.0046

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PAMC25021

Actinomycetota	Arachnia	Arachnia propionica	0.0039
Actinomycetota	Corynebacterium	Corynebacterium genitalium	0.0039
Actinomycetota	Corynebacterium	Corynebacterium ihumii	0.0039
Actinomycetota	Corynebacterium	Corynebacterium kefirresidentii	0.0039
Actinomycetota	Corynebacterium	Corynebacterium resistens	0.0039
Actinomycetota	Corynebacterium	Corynebacterium sp. MSK072	0.0039
Bacillota	Blautia	Blautia hydrogenotrophica	0.0039
Bacillota	Faecalibacterium	Faecalibacterium sp. I4-1-79	0.0039
Bacillota	Gemella	Gemella morbillorum	0.0039
Bacillota	Latilactobacillus	Latilactobacillus sakei	0.0039
Bacillota	Peptoniphilus	Peptoniphilus harei	0.0039
Bacillota	Streptococcus	Streptococcus sp. KHUD_015	0.0039
Bacillota	Streptococcus	Streptococcus sp. SN-1	0.0039
Bacillota	Streptococcus	Streptococcus sp. oral taxon 064	0.0039
Bacteroidota	Capnocytophaga	Capnocytophaga sputigena	0.0039
Pseudomonadota	Cupriavidus	Cupriavidus metallidurans	0.0039
Pseudomonadota	Eikenella	Eikenella corrodens	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas coronafaciens	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas sp. ABC1	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas sp. ArH3a	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas sp. CBS	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas sp. CP4	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP2294	0.0039
Pseudomonadota	Pseudomonas	Pseudomonas sp. SCA2728.1_7	0.0039
Pseudomonadota	Sphingomonas	Sphingomonas sp. PAMC26645	0.0039
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. 24(2023)	0.0039
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. WZN-1	0.0039
Pseudomonadota	Xanthomonas	Xanthomonas arboricola	0.0039
Actinomycetota	Bifidobacterium	Bifidobacterium pseudocatenulatum	0.0031
Actinomycetota	Corynebacterium	Corynebacterium pseudodiphtheriticum	0.0031
Actinomycetota	Gardnerella	Gardnerella pickettii	0.0031
Actinomycetota	Lancefieldella	Lancefieldella parvula	0.0031
Actinomycetota	Pauljensenia	Pauljensenia hongkongensis	0.0031
Actinomycetota	Rothia	Rothia amarae	0.0031
Bacillota	Eubacterium	Eubacterium ventriosum	0.0031
Bacillota	Faecalibacterium	Faecalibacterium taiwanense	0.0031
Bacillota	Lachnospira	Lachnospira eligens	0.0031
Bacillota	Lacticaseibacillus	Lacticaseibacillus paracasei	0.0031
Bacillota	Mediterraneibacter	Mediterraneibacter gnauus	0.0031
Bacillota	Streptococcus	Streptococcus parasanguinis	0.0031
Bacillota	Streptococcus	Streptococcus thermophilus	0.0031
Bacteroidota	Capnocytophaga	Capnocytophaga ochracea	0.0031
Bacteroidota	Parabacteroides	Parabacteroides merdae	0.0031
Pseudomonadota	Cupriavidus	Cupriavidus sp. 30B13	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas mosselii	0.0031

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Pseudomonadota	Pseudomonas	Pseudomonas sp. 4810-S13	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. ACM7	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-019	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. D3	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. DR48	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP1742	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP2309	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. MPB26	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. N4	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. S09G 359	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas sp. SK2	0.0031
Pseudomonadota	Pseudomonas	Pseudomonas vranovensis	0.0031
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. NA06056	0.0031
Mucoromycota	Chromera	Chromera velia	0.0028
Mucoromycota	Vitrella	Vitrella brassicaformis	0.0028
Actinomycetota	Actinomyces	Actinomyces naeslundii	0.0023
Actinomycetota	Actinomyces	Actinomyces sp. oral taxon 414	0.0023
Actinomycetota	Dermabacter	Dermabacter jinjuensis	0.0023
Actinomycetota	Kocuria	Kocuria flava	0.0023
Actinomycetota	Kocuria	Kocuria rhizophila	0.0023
Actinomycetota	Microbacterium	Microbacterium sp. PAMC22086	0.0023
Bacillota	Agathobaculum	Agathobaculum massiliense	0.0023
Bacillota	Clavellimonas	Clavellimonas bilis	0.0023
Bacillota	Staphylococcus	Staphylococcus aureus	0.0023
Bacillota	Streptococcus	Streptococcus intermedius	0.0023
Bacillota	Streptococcus	Streptococcus pneumoniae	0.0023
Bacillota	Streptococcus	Streptococcus sp. K0074	0.0023
Bacillota	Streptococcus	Streptococcus sp. oral taxon 061	0.0023
Bacteroidota	Amniculibacterium	Amniculibacterium sp. G2-70	0.0023
Bacteroidota	Bacteroides	Bacteroides zooglyphiformans	0.0023
Bacteroidota	Capnocytophaga	Capnocytophaga gingivalis	0.0023
Bacteroidota	Chryseobacterium	Chryseobacterium arthrosphaerae	0.0023
Chytridiomycota	Batrachochytrium	Batrachochytrium dendrobatidis	0.0023
Euglenozoa	Leishmania	Leishmania mexicana	0.0023
Lenarviricota	Spartovirus	Spartovirus spartoi	0.0023
Pseudomonadota	Acinetobacter	Acinetobacter corruptisaponis	0.0023
Pseudomonadota	Acinetobacter	Acinetobacter tibetensis	0.0023
Pseudomonadota	Aeromonas	Aeromonas hydrophila	0.0023
Pseudomonadota	Bosea	Bosea sp. AS-1	0.0023
Pseudomonadota	Brevundimonas	Brevundimonas mediterranea	0.0023
Pseudomonadota	Brucella	Brucella anthropi	0.0023
Pseudomonadota	Burkholderia	Burkholderia cepacia	0.0023
Pseudomonadota	Delftia	Delftia lacustris	0.0023
Pseudomonadota	Enterobacter	Enterobacter soli	0.0023
Pseudomonadota	Klebsiella	Klebsiella michiganensis	0.0023

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Pseudomonadota	Microvirga	Microvirga thermotolerans	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas cucumis	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas hamedanensis	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas kribbensis	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas libanensis	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas luteola	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas purpurea	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas saxonica	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas serboccidentalis	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas silesiensis	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP453	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas sp. PSKL.D1	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas sp. UBT	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas sp. nanlin1	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas triclosanedens	0.0023
Pseudomonadota	Pseudomonas	Pseudomonas umsongensis	0.0023
Pseudomonadota	Serratia	Serratia marcescens	0.0023
Pseudomonadota	Thermomonas	Thermomonas aquatica	0.0023
Uroviricota	Kingevirus	Kingevirus communis	0.0023
Apicomplexa	Sarcocystis	Sarcocystis neurona	0.0018
Actinomycetota	Corynebacterium	Corynebacterium appendicis	0.0015
Actinomycetota	Corynebacterium	Corynebacterium pseudokroppenstedtii	0.0015
Actinomycetota	Corynebacterium	Corynebacterium uberis	0.0015
Actinomycetota	Corynebacterium	Corynebacterium ureicelerivorans	0.0015
Actinomycetota	Janibacter	Janibacter melonis	0.0015
Actinomycetota	Microbacterium	Microbacterium laevaniformans	0.0015
Actinomycetota	Microbacterium	Microbacterium maritypicum	0.0015
Actinomycetota	Nocardioideis	Nocardioideis sp. NBC_00368	0.0015
Actinomycetota	Raoultibacter	Raoultibacter timonensis	0.0015
Actinomycetota	Winkia	Winkia neuui	0.0015
Apicomplexa	Babesia	Babesia bigemina	0.0015
Apicomplexa	Cystoisospora	Cystoisospora suis	0.0015
Bacillota	Streptococcus	Streptococcus rubneri	0.0015
Bacillota	Streptococcus	Streptococcus sp. KHUD_011	0.0015
Bacillota	Streptococcus	Streptococcus sp. Marseille-Q3533	0.0015
Bacteroidota	Bacteroides	Bacteroides intestinalis	0.0015
Bacteroidota	Butyricimonas	Butyricimonas paravirosa	0.0015
Bacteroidota	Capnocytophaga	Capnocytophaga leadbetteri	0.0015
Bacteroidota	Dysgonomonas	Dysgonomonas capnocytophagoides	0.0015
Campylobacterota	Campylobacter	Campylobacter ureolyticus	0.0015
Pseudomonadota	Alishewanella	Alishewanella sp. d11	0.0015
Pseudomonadota	Aquipseudomonas	Aquipseudomonas campi	0.0015
Pseudomonadota	Bradyrhizobium	Bradyrhizobium barranii	0.0015
Pseudomonadota	Hydrogenophaga	Hydrogenophaga sp. RAC07	0.0015

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Pseudomonadota	Leclercia	Leclercia adecarboxylata	0.0015
Pseudomonadota	Methylobacterium	Methylobacterium populi	0.0015
Pseudomonadota	Paracoccus	Paracoccus yeei	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas agarici	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas alvandia	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas anguilliseptica	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas arsenicoxydans	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas baltica	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas beijingensis	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas cedrina	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas edaphica	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas frederiksbergensis	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas hefeiensis	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas kermanshahensis	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas kielensis	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas migulae	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas oryzihabitans	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas petroselini	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas plecoglossicida	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas reinekei	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. 18-147	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. 7SR1	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. ADAK13	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-023	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-035	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-056	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP2254	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP2335	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. MH9.3	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. MUP55	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. NY11382	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. OE 28.3	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. R1-6	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. R1-7	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. R4-39-08	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. S35	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. Stari2	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. UW4	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas sp. Z3-8	0.0015
Pseudomonadota	Pseudomonas	Pseudomonas vanderleydeniana	0.0015
Pseudomonadota	Rhizobium	Rhizobium sp. X9	0.0015
Pseudomonadota	Stenotrophomonas	Stenotrophomonas indicatrix	0.0015
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. ASS1	0.0015
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. EMP41	0.0015
Uroviricota	Endlipuvirus	Endlipuvirus intestinhominis	0.0015
Uroviricota	Fohxhuevirus	Fohxhuevirus gastrointestinalis	0.0015

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Actinomycetota	Changpingibacter	Changpingibacter yushuensis	0.0008
Actinomycetota	Corynebacterium	Corynebacterium sp. Z-1	0.0008
Actinomycetota	Curtobacterium	Curtobacterium sp. Arg-1	0.0008
Actinomycetota	Demequina	Demequina aurantiaca	0.0008
Actinomycetota	Gordonia	Gordonia sp. NB41Y	0.0008
Actinomycetota	Isoptericola	Isoptericola jiangsuensis	0.0008
Actinomycetota	Kribbella	Kribbella sp. CA-253562	0.0008
Actinomycetota	Microbacterium	Microbacterium hominis	0.0008
Actinomycetota	Micromonospora	Micromonospora robiginosa	0.0008
Apicomplexa	Plasmodium	Plasmodium inui	0.0008
Apicomplexa	Toxoplasma	Toxoplasma gondii	0.0008
Ascomycota	Aspergillus	Aspergillus puulauensis	0.0008
Ascomycota	Fusarium	Fusarium pseudograminearum	0.0008
Bacillota	Acetivibrio	Acetivibrio saccincola	0.0008
Bacillota	Agathobacter	Agathobacter rectalis	0.0008
Bacillota	Anaerostipes	Anaerostipes hadrus	0.0008
Bacillota	Bacillus	Bacillus pumilus	0.0008
Bacillota	Dialister	Dialister sp.	0.0008
Bacillota	Eubacterium	Eubacterium ramulus	0.0008
Bacillota	Faecalibacterium	Faecalibacterium sp. I4-3-84	0.0008
Bacillota	Hungatella	Hungatella hathewayi	0.0008
Bacillota	Intestinimonas	Intestinimonas butyriciproducens	0.0008
Bacillota	Owariibacterium	Owariibacterium komagatae	0.0008
Bacillota	Pusillibacter	Pusillibacter faecalis	0.0008
Bacillota	Staphylococcus	Staphylococcus lugdunensis	0.0008
Bacillota	Streptococcus	Streptococcus dentalis	0.0008
Bacillota	Streptococcus	Streptococcus toyakuensis	0.0008
Bacillota	Subdoligranulum	uncultured Subdoligranulum sp.	0.0008
Bacillota	Vescimonas	Vescimonas fastidiosa	0.0008
Bacteroidota	Alistipes	uncultured Alistipes sp.	0.0008
Bacteroidota	Bacteroides	Bacteroides cellulosilyticus	0.0008
Bacteroidota	Bacteroides	Bacteroides difficilis	0.0008
Bacteroidota	Bacteroides	Bacteroides faecis	0.0008
Bacteroidota	Bacteroides	Bacteroides hominis	0.0008
Bacteroidota	Bacteroides	Bacteroides sp. A1C1	0.0008
Bacteroidota	Bacteroides	Bacteroides zhangwenhongii	0.0008
Bacteroidota	Barnesiella	Barnesiella sp. An22	0.0008
Bacteroidota	Epilithonimonas	Epilithonimonas zae	0.0008
Bacteroidota	Mucilaginibacter	Mucilaginibacter sp. SMC90	0.0008
Bacteroidota	Phocaeicola	Phocaeicola salanitronis	0.0008
Bacteroidota	Polaribacter	Polaribacter huanghezhanensis	0.0008
Bacteroidota	Polaribacter	Polaribacter sp. SA4-10	0.0008
Basidiomycota	Malassezia	Malassezia japonica	0.0008
Campylobacterota	Arcobacter	Arcobacter porcinus	0.0008
Deinococcota	Deinococcus	Deinococcus aetherius	0.0008
Discosea	Acanthamoeba	Acanthamoeba lenticulata	0.0008
Euglenozoa	Trypanosoma	Trypanosoma cruzi	0.0008

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Fusobacteriota	Fusobacterium	Fusobacterium animalis	0.0008
Planctomycetota	Planctomyces	Planctomyces sp. SH-PL14	0.0008
Pseudomonadota	Achromobacter	Achromobacter sp. AONIH1	0.0008
Pseudomonadota	Acidovorax	Acidovorax sp. A79	0.0008
Pseudomonadota	Acidovorax	Acidovorax temperans	0.0008
Pseudomonadota	Acinetobacter	Acinetobacter courvalinii	0.0008
Pseudomonadota	Aeromonas	Aeromonas caviae	0.0008
Pseudomonadota	Brevundimonas	Brevundimonas sp.	0.0008
Pseudomonadota	Burkholderia	Burkholderia sp. MSMB1588	0.0008
Pseudomonadota	Citrobacter	Citrobacter braakii	0.0008
Pseudomonadota	Ectopseudomonas	Ectopseudomonas mendocina	0.0008
Pseudomonadota	Jeongeupia	Jeongeupia sp. HS-3	0.0008
Pseudomonadota	Kingella	Kingella oralis	0.0008
Pseudomonadota	Kluyvera	Kluyvera cryocrescens	0.0008
Pseudomonadota	Luteibacter	Luteibacter flocculans	0.0008
Pseudomonadota	Luteimonas	Luteimonas sp. MC1750	0.0008
Pseudomonadota	Metapseudomonas	Metapseudomonas boanensis	0.0008
Pseudomonadota	Methyloversatilis	Methyloversatilis sp.	0.0008
Pseudomonadota	Novosphingobium	Novosphingobium capsulatum	0.0008
Pseudomonadota	Paraburkholderia	Paraburkholderia caledonica	0.0008
Pseudomonadota	Paracoccus	Paracoccus sp. Arc7-R13	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas abieticivorans	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas caspiana	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas cerasi	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas entomophila	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas granadensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas idahonensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas izuensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas koreensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas laurylsulfatiphila	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas leptonychotis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas lundensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas mediterranea	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas nunensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas qingdaonensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas siliginis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. 09C 129	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-010	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-051	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21-054	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. B21128	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. B22129	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. BR20	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. CCC3.1	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. D1-1	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. DC1.2	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. DR 5-09	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. FP198	0.0008

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Pseudomonadota	Pseudomonas	Pseudomonas sp. G11	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. G166	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. G2-4	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. HOU2	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. HTZ2	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. KNUC1026	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. LS.1a	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. LTJR-52	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. MAG733B	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. ML2-2023-3	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. MM213	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. MPB03	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. MPDS	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. NA-150	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. NEEL19	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. NFX224	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. NIBRBAC000502773	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. R5-89-07	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. R76	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. SW-3	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. Seg1	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. WHRI 8519	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. WJP1	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas sp. p1(2021b)	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas syringae	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas taetrolens	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas vancouverensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas viciae	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas viridiflava	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas wadenswilerensis	0.0008
Pseudomonadota	Pseudomonas	Pseudomonas xanthosomatis	0.0008
Pseudomonadota	Pseudoxanthomonas	Pseudoxanthomonas sp. JBR18	0.0008
Pseudomonadota	Raoultella	Raoultella planticola	0.0008
Pseudomonadota	Shinella	Shinella sp. PSBB067	0.0008
Pseudomonadota	Sphingomonas	Sphingomonas aerolata	0.0008
Pseudomonadota	Sphingomonas	Sphingomonas parapaucimobilis	0.0008
Pseudomonadota	Sphingomonas	Sphingomonas sp. FARSPH	0.0008
Pseudomonadota	Sphingomonas	Sphingomonas sp. KC8	0.0008
Pseudomonadota	Stenotrophomonas	Stenotrophomonas rhizophila	0.0008
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. 59	0.0008
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. SBJS02	0.0008
Pseudomonadota	Stenotrophomonas	Stenotrophomonas sp. ZAC14A_NAIMI4_1	0.0008
Pseudomonadota	Sterolibacterium	Sterolibacterium denitrificans	0.0008

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Spirochaetota	Treponema	Treponema medium	0.0008
Thermotogota	Fervidobacterium	Fervidobacterium nodosum	0.0008
Uroviricota	Afonbuvirus	Afonbuvirus coli	0.0008
Chlamydiota	Chlamydia	Chlamydia felis	0.0005
Discosea	Acanthamoeba	Acanthamoeba castellanii	0.0005
Ascomycota	Aspergillus	Aspergillus luchuensis	0.0003
Ascomycota	Aspergillus	Aspergillus steynii	0.0003
Ascomycota	Botrytis	Botrytis cinerea	0.0003
Ascomycota	Neurospora	Neurospora discreta	0.0003
Discosea	Acanthamoeba	Acanthamoeba polyphaga	0.0003
Discosea	Acanthamoeba	Acanthamoeba quina	0.0003
Discosea	Acanthamoeba	Acanthamoeba rhyodes	0.0003
Euglenozoa	Trypanosoma	Trypanosoma congolense	0.0003
Microsporidia	Enterocytozoon	Enterocytozoon bienewisi	0.0003
Mucoromycota	Phycomyces	Phycomyces blakesleeianus	0.0003
Oomycota	Pythium	Pythium arrhenomanes	0.0003

ANALISI METAGENOMICA

PRINCIPIO DEL TEST

L'analisi metagenomica rappresenta una tecnica avanzata che consente di studiare l'intero materiale genetico (DNA) estratto direttamente da un campione biologico, senza la necessità di isolare e coltivare i singoli microrganismi in laboratorio. Questo approccio ci permette di identificare con alta precisione l'insieme completo di microrganismi presenti (batteri, archaea, funghi e virus), fornendo un quadro dettagliato della composizione microbica del campione analizzato.

TECNOLOGIA

Per questa analisi viene utilizzata la tecnologia di sequenziamento massivo di ultima generazione (Next Generation Sequencing - NGS) applicata con un approccio di Shotgun Metagenomics o Whole-Genome Sequencing (WGS). A differenza delle tecniche basate su marcatori genetici come il 16S, il WGS prevede il sequenziamento casuale di tutto il DNA presente nel campione. I frammenti di DNA sequenziati vengono poi confrontati con vasti database di riferimento genomico. Questo metodo offre diversi vantaggi:

- **Identificazione Completa:** Permette di rilevare non solo batteri, ma anche funghi, virus e archaea.
- **Alta Risoluzione:** Fornisce un'identificazione precisa a livello di specie e, in alcuni casi, anche di ceppo.
- **Minori Bias:** Evita le distorsioni introdotte dalla fase di amplificazione del gene 16S (PCR), offrendo una quantificazione relativa più accurata.

COME LEGGERE IL REFERTO

Questo documento è strutturato per guidarla nell'interpretazione dei risultati, dal quadro generale al dettaglio analitico. L'interpretazione di ogni dato deve essere sempre rapportata al tipo di campione analizzato (es. sangue, tampone, tessuto, etc.).

Specie Rilevate - Composizione Principale (Grafico a Ciambella)

Cosa Mostra: Questo grafico illustra le 10 specie microbiche più abbondanti rilevate, rappresentando la "fotografia" principale della comunità microbica nel suo campione.

Come Leggerlo: Ogni "fetta" corrisponde a una specie e la sua grandezza è proporzionale alla sua abbondanza. Questo permette di identificare a colpo d'occhio quali microrganismi sono dominanti.

Complessità Microbica del Campione (Curva di Rarefazione)

Cosa Mostra: Questo grafico stima la "ricchezza" o varietà di specie diverse nel campione. La curva sale man mano che vengono identificate nuove specie durante l'analisi.

Come Leggerlo: Una curva che continua a salire indica un'elevata complessità microbica (molte specie diverse). Una curva che si appiattisce rapidamente suggerisce una bassa complessità (poche specie dominanti). Il significato clinico di alta o bassa complessità dipende interamente dal sito di prelievo.

Elenco Tassonomico Completo (Tabella)

Cosa Mostra: Questa è la lista completa e dettagliata di tutti i microrganismi identificati, ordinati dal più abbondante al più raro.

Come Leggerlo: È lo strumento più potente per un'analisi approfondita. Permette di cercare la presenza o assenza di microrganismi specifici, anche se presenti in piccolissime quantità, e fornisce il dato analitico grezzo per qualsiasi indagine clinica o di ricerca.