|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Culture result** | **mNGS result** | | | | | | | | |
| **Sample** | **Culture result** | **CovRate** | **Depth** | **Re\_Abu** | **Genus\_Re\_Abu** | | **SMRN** | | **SMRNG** | |
| 117 | Raoultella ornithinolytica | 0.0013 | 1 | 0.1 | 0.1 | | 1 | | 1 | |
| 152 | Staphylococcus epidermidis | 0.3764 | 1 | 2.62 | 12.31 | | 182 | | 1118 | |
| 158 | Staphylococcus epidermidis | 0.0072 | 1 | 10.46 | 17.96 | | 4 | | 7 | |
| 165 | Acinetobacter johnsonii | 32.09 | 1.45 | 79.91 | 96.17 | | 48023 | | 63803 | |
| 184 | Enterococcus faecium | 0.0218 | 1 | 0.16 | 0.22 | | 14 | | 20 | |
| 187 | Acinetobacter baumannii | 0.001 | 1 | 0.01 | 2.12 | | 1 | | 136 | |
|  | Klebsiella pneumoniae | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| 191 | Candida parapsilosis | 0.0026 | 1 | 1.63 | 1.63 | | 4 | | 5 | |
| 194 | Staphylococcus hominis | 0.4586 | 1 | 0.92 | 4.49 | | 254 | | 1436 | |
| 197 | Staphylococcus | / | / | / | 2.46 | | / | | 46 | |
| 266 | Staphylococcus haemolyticus | 0.4053 | 1 | 8.26 | 43.19 | | 231 | | 1128 | |
| 379 | Pseudomonas aeruginosa | 0.0005 | 1 | 0.07 | 0.94 | | 0 | | 2 | |
| 412 | Stenotrophomonas maltophilia | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| 466 | Staphylococcus | / | / | / | 1.64 | | / | | 117 | |
| 576 | Staphylococcus haemolyticus | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| 743 | Acinetobacter baumannii | 0.0024 | 1 | 0.11 | 0.59 | | 1 | | 4 | |
| 766 | Bacillus siamensis | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| 782 | Staphylococcus | / | / | / | 2.13 | | / | | 152 | |
| 785 | Streptococcus gallolyticus | 0.0402 | 1 | 0.53 | 1.7 | | 6 | | 40 | |
| 803 | Staphylococcus epidermidis | 0.2592 | 1 | 1 | 3.74 | | 110 | | 373 | |
| 832 | Staphylococcus | / | / | / | 0.45 | / | | 5 | |
| 908 | Staphylococcus | / | / | / | 2.85 | | / | | 2 | |
| 1013 | Staphylococcus epidermidis | 0.0019 | 1 | 0.43 | 2.27 | | 1 | | 4 | |
| 1024 | Stenotrophomonas maltophilia | 0.0019 | 1 | 0.06 | 0.15 | | 3 | | 3 | |
|  | Staphylococcus | / | / | / | 0.25 | | / | | 8 | |

**Supplementary material captions**

**Supplementary table 1**

List of 23 paired-culture positive samples.

**Supplementary table 2**

List of 26 samples defined as inconsistent results.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Culture result** | **mNGS result** | | | | | |
| **Sample** | **Culture result** | **CovRate** | **Depth** | **Re\_Abu** | **Genus\_Re\_Abu** | **SMRN** | **SMRNG** |
| 50 | Citrobacter freundii | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 | Staphylococcus epidermidis | 0.0717 | 1 | 0.81 | 14.86 | 36 | 694 |
| 126 | Acinetobacter johnsonii | 0.0458 | 1 | 1.5 | 2.2 | 37 | 59 |
| 247 | Proteus mirabilis | 0.0028 | 1 | 0.11 | 0.11 | 3 | 3 |
| 260 | Staphylococcus haemolyticus | 0.099 | 1 | 1.02 | 28 | 53 | 1458 |
| 269 | Enterobacter cloacae | 0.0031 | 1 | 0.01 | 0.11 | 0 | 18 |
|  | Candida albicans | 0.0156 | 1.01 | 8.97 | 9.75 | 92 | 100 |
| 302 | Enterobacter cloacae | 0.0134 | 1 | 0.91 | 28.98 | 0 | 452 |
| 367 | Staphylococcus warneri | 0 | 0 | 0 | 0 | 0 | 0 |
| 373 | Candida parapsilosis | 0 | 0 | 0 | 0 | 0 | 0 |
| 382 | Staphylococcus epidermidis | 0.0015 | 1 | 1.09 | 8.83 | 1 | 7 |
| 385 | Staphylococcus sciuri | 0.008 | 1 | 3.16 | 27.91 | 4 | 61 |
|  | Enterococcus avium | 0.0073 | 1 | 1.89 | 10.18 | 7 | 29 |
| 415 | Stenotrophomonas maltophilia | 0.0029 | 1 | 0.06 | 0.08 | 3 | 4 |
| 420 | Staphylococcus capitis | 0 | 0 | 0 | 0 | 0 | 0 |
| 442 | Staphylococcus haemolyticus | 0 | 0 | 0 | 0 | 0 | 0 |
| 502 | Staphylococcus capitis | 0.0115 | 1 | 0.23 | 1.04 | 2 | 21 |
| 509 | Klebsiella aerogenes | 0.0008 | 1 | 0.0056 | 0.0107 | 1 | 1 |
|  | Staphylococcus | / | / | / | 1.76 | / | 402 |
| 523 | Staphylococcus | / | / | / | 0.81 | / | 30 |
| 537 | Staphylococcus hominis | 0.0163 | 1 | 0.37 | 2.51 | 9 | 65 |
| 548 | Micrococcus luteus | 0.0019 | 1 | 0.02 | 0.09 | 1 | 3 |
| 586 | Staphylococcus epidermidis | 0.0101 | 1 | 0.15 | 1.16 | 4 | 37 |
| 661 | Staphylococcus haemolyticus | 0.0422 | 1 | 1.06 | 2.62 | 21 | 51 |
| 673 | Raoultella ornithinolytica | 0.0015 | 1 | 0.07 | 0.19 | 2 | 5 |
| 735 | Klebsiella pneumoniae | 0.2428 | 1 | 9.32 | 10.87 | 93 | 257 |
| 767 | Candida albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| 847 | Enterococcus faecalis | 0.005 | 1 | 0.04 | 0.14 | 1 | 7 |
| 901 | Klebsiella pneumoniae | 0 | 0 | 0 | 0 | 0 | 0 |

**Supplementary table 3**

A total of 36 pathogens reported positive in the 17 paired positive samples that were not reported in blood mNGS were listed.

| **mNGS result of other sample type** | | | **mNGS result of blood** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Type** | **Result** | **CovRate** | **Depth** | **Re\_Abu** | **Genus\_Re\_Abu** | **SMRN** | **SMRNG** |
| 10 | Sputum | Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_4\_type\_2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | CSF | Streptococcus\_pneumoniae | 0.0117 | 1 | 0.03 | 0.36 | 0 | 56 |
| 243 | Sputum | Acinetobacter\_baumannii | 0.2276 | 1 | 2.68 | 10.14 | 136 | 727 |
| Klebsiella\_pneumoniae | 0.0046 | 1 | 0.05 | 0.09 | 1 | 12 |
| Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 303 | Biliarya | Enterococcus\_faecalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterococcus\_raffinosus | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 441 | Sputum | Lautropia\_mirabilis | 0.1394 | 1 | 4.72 | 4.72 | 76 | 76 |
| Stenotrophomonas\_maltophilia | 0.001 | 1 | 0.03 | 0.23 | 1 | 2 |
| Tannerella\_forsythia | 0 | 0 | 0 | 0 | 0 | 0 |
| Acinetobacter\_baumannii | 0.0012 | 1 | 0.04 | 4.04 | 0 | 2 |
| 475 | Sputum | Klebsiella\_pneumoniae | 0 | 0 | 0 | 0 | 0 | 0 |
| Mycoplasma\_hominis | 0 | 0 | 0 | 0 | 0 | 0 |
| 636 | Swab | Pneumocystis\_jirovecii | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 715 | CSF | Mycobacterium\_tuberculosis\_complex\_group | 0 | 0 | 0 | 0 | 0 | 0 |
| 731 | Sputum | Acinetobacter\_baumannii | 0.0122 | 1 | 0.29 | 1.71 | 8 | 43 |
| Stenotrophomonas\_maltophilia | 0.0022 | 1 | 0.05 | 0.05 | 1 | 1 |
| 732 | Sputum | Acinetobacter\_baumannii | 0.0047 | 1 | 1.24 | 1.96 | 2 | 4 |
| Stenotrophomonas\_maltophilia | 0.0011 | 1 | 0.28 | 0.28 | 1 | 1 |
| Human\_herpesvirus\_1 | 0.0328 | 1 | 0.42 | / | 5 | / |
| 754 | CSF | Mycobacterium\_tuberculosis\_complex\_group | 0 | 0 | 0 | 0 | 0 | 0 |
| 766 | Sputum | Enterococcus\_faecium | 0 | 0 | 0 | 0 | 0 | 0 |
| Haemophilus\_parainfluenzae | 0.0024 | 1 | 0.21 | 0.21 | 0 | 0 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 781 | Sputum | Acinetobacter\_baumannii | 0.583 | 1 | 51.01 | 58.32 | 260 | 439 |
| Stenotrophomonas\_maltophilia | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_1 | 0.4019 | 1 | 5.79 | / | 19 | / |
| 794 | BALF | Mycobacterium\_tuberculosis\_complex\_group | 0 | 0 | 0 | 0 | 0 | 0 |
| 796 | Sputum | Klebsiella\_pneumoniae | 0.1631 | 1 | 2.24 | 2.83 | 71 | 169 |
| 877 | CSF | Brevundimonas\_vesicularis | 0.0489 | 1 | 1.26 | 1.6 | 19 | 26 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1011 | BALF | Human\_herpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_7 | 0.9747 | 1 | 93.9 | / | 1 | / |

**Supplementary table 4**

A total of 70 paired-samples had inconsistent results with blood were listed.

| **mNGS result of other sample type** | | | **mNGS result of blood** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Type** | **Result** | **CovRate** | **Depth** | **Re\_Abu** | **Genus\_Re\_Abu** | **SMRN** | **SMRNG** |
| 57 | Sputum | Torque\_teno\_virus | 0 | 0 | 0 | 0 | 0 | 0 |
| 74 | Sputum | Candida\_orthopsilosis | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_alphaherpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 159 | BALF | Human\_alphaherpesvirus\_1 | 0.1187 | 1 | 0.72 | / | 6 | / |
| 163 | Swab | Acinetobacter\_baumannii | 0.0192 | 1 | 0.14 | 3.17 | 11 | 339 |
| Human\_alphaherpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | Sputum | Stenotrophomonas\_maltophilia | 0.0168 | 1 | 0.19 | 0.24 | 6 | 7 |
| Ureaplasma\_parvum | 0 | 0 | 0 | 0 | 0 | 0 |
| Acinetobacter\_baumannii | 0.0102 | 1 | 0.16 | 5.3 | 6 | 364 |
| 170 | Urine | Candida\_albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| 196 | Swab | Pseudomonas\_aeruginosa | 0.0054 | 1 | 0.05 | 0.8 | 3 | 87 |
| Enterococcus\_faecalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Helcococcus\_kunzii | 0 | 0 | 0 | 0 | 0 | 0 |
| Facklamia\_languida | 0 | 0 | 0 | 0 | 0 | 0 |
| 212 | Sputum | Enterococcus\_faecium | 0.0859 | 1.01 | 0.67 | 1.18 | 56 | 106 |
| Candida\_albicans | 0.0033 | 1 | 0.05 | 0.07 | 20 | 23 |
| Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 215 | BALF | Acinetobacter\_baumannii | 0.0648 | 1 | 0.45 | 3.18 | 41 | 396 |
| 217 | Sputum | Enterococcus\_faecium | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 | Sputum | Pseudomonas\_aeruginosa | 0.0006 | 1 | 0.05 | 0.9 | 0 | 6 |
| Enterococcus\_faecalis | 0.0013 | 1 | 0.12 | 0.48 | 1 | 2 |
| Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 239 | BALF | Acinetobacter\_baumannii | 0.0336 | 1 | 0.11 | 0.69 | 26 | 168 |
| Pseudomonas\_aeruginosa | 0.0068 | 1 | 0.02 | 0.45 | 2 | 38 |
| Staphylococcus\_aureus | 0.0052 | 1 | 0.01 | 0.16 | 1 | 33 |
| Aeromonas\_dhakensis | 0.0009 | 1 | 0 | 0.04 | 0 | 7 |
| Human\_betaherpesvirus\_6B | 0 | 0 | 0 | 0 | 0 | 0 |
| Torque\_teno\_virus\_27 | 0 | 0 | 0 | 0 | 0 | 0 |
| Torque\_teno\_virus\_28 | 6.26 | 1.11 | 7.23 | / | 2 | / |
| 260 | Sputum | Stenotrophomonas\_maltophilia | 0.0009 | 1 | 0.02 | 0.12 | 1 | 3 |
| Chryseobacterium\_indologenes | 0.0008 | 1 | 0.01 | 6.3 | 0 | 324 |
| Human\_alphaherpesvirus\_2 | 0.2764 | 1 | 0.95 | / | 1 | / |
| 271 | Sputum | Candida\_albicans | 0.0002 | 1 | 0.01 | 0.01 | 1 | 1 |
| 287 | BALF | Stenotrophomonas\_maltophilia | 0.0081 | 1 | 0.56 | 0.88 | 2 | 4 |
| Candida\_tropicalis | 0.0003 | 1 | 0.41 | 0.41 | 1 | 1 |
| Candida\_parapsilosis | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_orthopsilosis | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| 287 | Ascitic fluid | Rothia\_mucilaginosa | 0 | 0 | 0 | 0 | 0 | 0 |
| Actinomyces\_graevenitzii | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 291 | Sputum | Klebsiella\_aerogenes | 0.0007 | 1 | 0.01 | 0.03 | 0 | 4 |
| Klebsiella\_pneumoniae | 0.0008 | 1 | 0.01 | 0.03 | 1 | 4 |
| Kluyvera\_cryocrescens | 0 | 0 | 0 | 0 | 0 | 0 |
| Acinetobacter\_baumannii | 0.0103 | 1 | 0.11 | 6.35 | 5 | 476 |
| Enterobacter\_cloacae | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterococcus\_faecalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 302 | Bile | Enterobacter\_cloacae | 0.0134 | 1 | 0.91 | 28.98 | 0 | 452 |
| Citrobacter\_werkmanii | 0.0016 | 1 | 0.08 | 0.46 | 1 | 2 |
| Kluyvera\_ascorbata | 0 | 0 | 0 | 0 | 0 | 0 |
| Escherichia\_coli | 0 | 0 | 0 | 0 | 0 | 0 |
| Klebsiella\_aerogenes | 0.0014 | 1 | 0.07 | 0.2 | 0 | 2 |
| Serratia\_marcescens | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hepatitis\_B\_virus\_subtype\_adr | 5.35 | 1 | 24.64 | / | 0 | / |
| 322 | Bile | Human\_betaherpesvirus\_6B | 0 | 0 | 0 | 0 | 0 | 0 |
| 323 | Drainage | Proteus\_mirabilis | 0.0039 | 1 | 2.41 | 2.41 | 3 | 3 |
| 462 | Sputum | Pseudomonas\_aeruginosa | 0.0107 | 1.08 | 0.31 | 0.76 | 5 | 9 |
| Lactobacillus\_paracasei | 0 | 0 | 0 | 0 | 0 | 0 |
| Citrobacter\_freundii | 0 | 0 | 0 | 0 | 0 | 0 |
| 478 | Sputum | Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 480 | Sputum | Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 507 | Sputum | Chryseobacterium\_indologenes | 0.3588 | 1 | 11.87 | 12.49 | 328 | 354 |
| Torque\_teno\_virus | 1.33 | 1 | 3.5 | / | 1 | / |
| Human\_alphaherpesvirus\_1 | 0.0336 | 1 | 0.04 | / | 1 | / |
| 518 | Sputum | Enterococcus\_faecalis | 0.0124 | 1 | 0.05 | 71.12 | 0 | 11458 |
| Serratia\_rubidaea | 0 | 0 | 0 | 0 | 0 | 0 |
| Stenotrophomonas\_maltophilia | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_4 | 0.0712 | 1 | 2.92 | / | 0 | / |
| Leishmania\_mexicana | 0 | 0 | 0 | 0 | 0 | 0 |
| Clonorchis\_sinensis | 0 | 0 | 0 | 0 | 0 | 0 |
| 529 | Sputum | Enterobacter\_cloacae | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmonella\_enterica\_serotype\_Typhi | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmonella\_bongori | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Torque\_teno\_virus | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_papillomavirus\_type\_36 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_papillomavirus\_98 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_6B | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 532 | CSF | Pseudomonas\_aeruginosa | 0.0074 | 1 | 0.25 | 0.71 | 1 | 4 |
| Aspergillus\_fumigatus | 0 | 0 | 0 | 0 | 0 | 0 |
| Aspergillus\_niger | 0 | 0 | 0 | 0 | 0 | 0 |
| Aspergillus\_terreus | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_parapsilosis | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_tropicalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_papillomavirus\_167 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_alphaherpesvirus\_2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_papillomavirus\_120 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_papillomavirus\_98 | 0 | 0 | 0 | 0 | 0 | 0 |
| 563 | Sputum | Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 584 | Hydrothorax | Pseudomonas\_aeruginosa | 0.0073 | 1.02 | 0.26 | 0.54 | 4 | 6 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 598 | Bile | Torque\_teno\_virus\_16 | 0 | 0 | 0 | 0 | 0 | 0 |
| 615 | Pus | Candida\_albicans | 0.0001 | 1 | 1.28 | 15 | 0 | 5 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 618 | Drainage | Bacteroides\_plebeius | 0.0046 | 1 | 1.04 | 15.95 | 4 | 88 |
| Parabacteroides\_merdae | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_6B | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 625 | BALF | Acinetobacter\_baumannii | 1.29 | 1.01 | 21.22 | 23.19 | 658 | 982 |
| Klebsiella\_pneumoniae | 0.4464 | 1.01 | 6.99 | 9.48 | 212 | 597 |
| Aspergillus\_fumigatus | 0.0002 | 1 | 3.31 | 6.62 | 1 | 1 |
| Torque\_teno\_virus | 7.19 | 4.09 | 91.61 | / | 13 | / |
| Torque\_teno\_virus\_14 | 1.28 | 1 | 1.57 | / | 1 | / |
| 626 | Sputum | Streptococcus\_pneumoniae | 0.0023 | 1 | 0.1 | 2.15 | 1 | 19 |
| Klebsiella\_pneumoniae | 0.0008 | 1 | 0.02 | 0.07 | 0 | 1 |
| Pneumocystis\_jirovecii | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_alphaherpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_6B | 0 | 0 | 0 | 0 | 0 | 0 |
| 627 | Bile | Enterococcus\_faecalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Pyramidobacter\_piscolens | 0 | 0 | 0 | 0 | 0 | 0 |
| Mogibacterium\_timidum | 0 | 0 | 0 | 0 | 0 | 0 |
| Streptobacillus\_moniliformis | 0 | 0 | 0 | 0 | 0 | 0 |
| Bilophila\_wadsworthia | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmonella\_enterica\_serotype\_Typhi | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterobacter\_cloacae | 0 | 0 | 0 | 0 | 0 | 0 |
| Escherichia\_coli | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_parapsilosis | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_dubliniensis | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_tropicalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 627 | Sputum | Stenotrophomonas\_maltophilia | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_betaherpesvirus\_5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 629 | Ascitic fluid | Acinetobacter\_baumannii | 0 | 0 | 0 | 0 | 0 | 0 |
| 711 | Sputum | Aspergillus\_fumigatus | 0 | 0 | 0 | 0 | 0 | 0 |
| 714 | Sputum | Acinetobacter\_baumannii | 0.0012 | 1 | 0.21 | 1.39 | 1 | 6 |
| Stenotrophomonas\_maltophilia | 0.0021 | 1 | 0.37 | 0.37 | 1 | 1 |
| Human\_herpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 741 | Sputum | Staphylococcus\_epidermidis | 0.0706 | 1 | 3.8 | 4.02 | 34 | 37 |
| Human\_herpesvirus\_4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 743 | CSF | Mycobacterium\_tuberculosis\_complex\_group | 0 | 0 | 0 | 0 | 0 | 0 |
| 747 | Sputum | Veillonella\_parvula | 0.0094 | 1 | 0.36 | 0.45 | 3 | 4 |
| Enterococcus\_faecalis | 0.0179 | 1 | 0.7 | 1.19 | 3 | 16 |
| Candida\_albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| 749 | BALF | Pneumocystis\_jirovecii | 0 | 0 | 0 | 0 | 0 | 0 |
| 751 | BALF | Corynebacterium\_striatum | 0.0034 | 1 | 0.16 | 1.22 | 2 | 11 |
| Enterococcus\_faecium | 0.0034 | 1 | 0.16 | 0.32 | 2 | 4 |
| 770 | BALF | Human\_herpesvirus\_7 | 0.0327 | 1 | 0.05 | / | 1 | / |
| Torque\_teno\_mini\_virus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 779 | BALF | Haemophilus\_parainfluenzae | 0.0207 | 1 | 0.5 | 0.56 | 4 | 4 |
| Pseudomonas\_aeruginosa | 0.0204 | 1 | 0.48 | 0.77 | 24 | 25 |
| Human\_herpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 814 | Sputum | Acinetobacter\_baumannii | 0.0037 | 1 | 0.11 | 0.79 | 1 | 11 |
| 816 | BALF | Stenotrophomonas\_maltophilia | 0.0022 | 1 | 0.06 | 0.06 | 0 | 0 |
| 821 | BALF | Acinetobacter\_baumannii | 0 | 0 | 0 | 0 | 0 | 0 |
| Torque\_teno\_virus\_8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 828 | Pus | Citrobacter\_freundii | 0.001 | 1 | 0.02 | 0.1 | 1 | 3 |
| Kluyvera\_georgiana | 0 | 0 | 0 | 0 | 0 | 0 |
| Escherichia\_coli | 0.0213 | 1 | 0.53 | 0.69 | 1 | 2 |
| Aeromonas\_veronii | 0.0029 | 1 | 0.08 | 0.15 | 2 | 3 |
| Candida\_albicans | 0 | 0 | 0 | 0 | 0 | 0 |
| 839 | Sputum | Human\_herpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 842 | Sputum | Human\_herpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 845 | CSF | Shigella\_dysenteriae | 0 | 0 | 0 | 0 | 0 | 0 |
| Shigella\_boydii | 0 | 0 | 0 | 0 | 0 | 0 |
| 854 | BALF | Mycoplasma\_pneumoniae | 0.0224 | 1 | 0.5 | 0.5 | 3 | 3 |
| Torque\_teno\_virus\_3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 857 | BALF | Mycobacterium | / | / | / | 0.06 | / | 0 |
| 871 | BALF | Torque\_teno\_virus\_27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 887 | BALF | Pseudomonas\_aeruginosa | 0.0007 | 1 | 6.75 | 6.75 | 1 | 1 |
| Stenotrophomonas\_maltophilia | 0 | 0 | 0 | 0 | 0 | 0 |
| 888 | Pus | Enterobacter\_cloacae | 0.0092 | 1 | 0.61 | 2.18 | 2 | 21 |
| Hafnia\_paralvei | 0.002 | 1 | 0.13 | 0.4001 | 2 | 2 |
| Escherichia\_coli | 0.0544 | 1 | 3.6 | 5.09 | 4 | 7 |
| Citrobacter\_koseri | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 890 | Sputum | Haemophilus\_parainfluenzae | 0 | 0 | 0 | 0 | 0 | 0 |
| Neisseria\_flavescens | 0.0043 | 1 | 2.21 | 4.71 | 0 | 3 |
| Neisseria\_subflava | 0.0022 | 1 | 1.13 | 4.71 | 0 | 3 |
| Neosartorya\_fischeri | 0 | 0 | 0 | 0 | 0 | 0 |
| Torque\_teno\_virus\_10 | 1.33 | 1 | 6.41 | / | 0 | / |
| Torque\_teno\_virus\_15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 900 | BALF | Staphylococcus\_haemolyticus | 0.013 | 1 | 2.81 | 3.66 | 6 | 9 |
| Elizabethkingia\_anophelis | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_6B | 0 | 0 | 0 | 0 | 0 | 0 |
| 903 | Sputum | Acinetobacter\_baumannii | 0.0012 | 1 | 0.1 | 2.26 | 0 | 12 |
| Haemophilus\_parainfluenzae | 0.0024 | 1 | 0.19 | 0.19 | 1 | 1 |
| Torque\_teno\_virus\_28 | 0 | 0 | 0 | 0 | 0 | 0 |
| 920 | Tissue | Peptostreptococcus\_stomatis | 0 | 0 | 0 | 0 | 0 | 0 |
| Prevotella\_timonensis | 0.0016 | 1 | 0.4 | 3.48 | 0 | 5 |
| 924 | Sputum | Haemophilus\_parainfluenzae | 0 | 0 | 0 | 0 | 0 | 0 |
| Pseudomonas\_aeruginosa | 0.0007 | 1 | 0.07 | 1.17 | 1 | 6 |
| Citrobacter\_koseri | 0 | 0 | 0 | 0 | 0 | 0 |
| Raoultella\_ornithinolytica | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 934 | Sputum | Stenotrophomonas\_maltophilia | 0.0022 | 1 | 0.02 | 0.02 | 2 | 2 |
| Acinetobacter\_baumannii | 0.0037 | 1 | 0.03 | 0.25 | 0 | 13 |
| Klebsiella\_pneumoniae | 0.0018 | 1 | 0.01 | 0.04 | 1 | 3 |
| Human\_herpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mycobacterium\_tuberculosis\_complex\_group | 0 | 0 | 0 | 0 | 0 | 0 |
| 946 | Sputum | Haemophilus\_parainfluenzae | 0 | 0 | 0 | 0 | 0 | 0 |
| Streptococcus\_pneumoniae | 0 | 0 | 0 | 0 | 0 | 0 |
| Klebsiella\_pneumoniae | 0 | 0 | 0 | 0 | 0 | 0 |
| Mycobacterium\_tuberculosis\_complex\_group | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hepatitis\_B\_virus | 0 | 0 | 0 | 0 | 0 | 0 |
| Torque\_teno\_virus\_3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 984 | BALF | Acinetobacter\_baumannii | 0.0037 | 1 | 1.25 | 3.13 | 2 | 5 |
| Pseudomonas\_aeruginosa | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_herpesvirus\_4 | 0.0579 | 1 | 1.66 | / | 1 | / |
| 1012 | Bile | Corynebacterium | / | / | / | 0.47 | / | 2 |
| Candida\_tropicalis | 0 | 0 | 0 | 0 | 0 | 0 |
| Human\_parvovirus\_B19 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1012 | Sputum | Staphylococcus\_epidermidis | 0.0076 | 1 | 0.51 | 1.13 | 3 | 7 |
| Enterococcus\_faecalis | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |
| 1026 | Bile | Enterococcus\_faecalis | 0.0031 | 1 | 0.07 | 0.07 | 2 | 2 |
| Escherichia\_coli | 0.0019 | 1 | 0.07 | 0.09 | 1 | 1 |
| Enterobacter\_cloacae | 0 | 0 | 0 | 0 | 0 | 0 |
| Candida\_tropicalis | 0.0003 | 1 | 1.33 | 1.33 | 1 | 1 |
| 1026 | Sputum | Acinetobacter\_baumannii | 0.0438 | 1.01 | 1.18 | 8.81 | 26 | 234 |
| Stenotrophomonas\_maltophilia | 0.0019 | 1 | 0.09 | 0.41 | 2 | 6 |
| Escherichia\_coli | 0.0019 | 1 | 0.07 | 0.09 | 1 | 1 |
| Human\_alphaherpesvirus\_1 | 0 | 0 | 0 | 0 | 0 | 0 |