|  |  |  |  |
| --- | --- | --- | --- |
| Species name | group | LDA\_value | Pvalue |
| g\_\_Aeromonas | NHV | 5.62 | 0.01 |
| g\_\_Comamonas | NHV | 3.78 | 0.01 |
| g\_\_Shewanella | NHV | 3.69 | 0.05 |
| g\_\_Haloferula | NHV | 3.46 | 0.05 |
| g\_\_Uliginosibacterium | HV | 3.67 | 0.01 |
| g\_\_Cloacibacterium | HV | 5.04 | 0.01 |
| g\_\_norank\_f\_\_Rhizobiales\_Incertae\_Sedis | HV | 4.52 | 0.01 |
| g\_\_OM60NOR5\_clade | HV | 4.48 | 0.01 |
| g\_\_unclassified\_f\_\_Rhodobacteraceae | HV | 4.44 | 0.01 |
| g\_\_norank\_f\_\_norank\_o\_\_PeM15 | HV | 4.39 | 0.01 |
| g\_\_Rhodobacter | HV | 4.27 | 0.01 |
| g\_\_Candidatus\_Alysiosphaera | HV | 4.25 | 0.01 |
| g\_\_Pseudomonas | HV | 4.12 | 0.02 |
| g\_\_Azospirillum | HV | 4.12 | 0.01 |
| g\_\_Mycobacterium | HV | 4.12 | 0.01 |
| g\_\_norank\_f\_\_JG30\_KF\_CM45 | HV | 4.1 | 0.01 |
| g\_\_Polymorphobacter | HV | 3.98 | 0.01 |
| g\_\_unclassified\_f\_\_Enterobacteriaceae | HV | 3.96 | 0.01 |
| g\_\_Roseobacter\_clade\_CHAB\_I\_5\_lineage | HV | 3.85 | 0.01 |
| g\_\_Thioclava | HV | 3.85 | 0.01 |
| g\_\_Luteolibacter | HV | 3.8 | 0.02 |
| g\_\_norank \_c\_\_Sericytochromatia | HV | 3.77 | 0.01 |
| g\_\_Flavobacterium | HV | 3.77 | 0.01 |
| g\_\_Roseomonas | HV | 3.76 | 0.01 |
| g\_\_Dinghuibacter | HV | 3.75 | 0.01 |
| g\_\_Reyranella | HV | 3.73 | 0.01 |
| g\_\_unclassified\_f\_\_Parachlamydiaceae | HV | 3.65 | 0.01 |
| g\_\_Delftia | HV | 3.65 | 0.01 |
| g\_\_norank\_f\_\_norank\_o\_\_Chloroplast | HV | 3.57 | 0.01 |
| g\_\_Sandaracinobacter | HV | 3.52 | 0.01 |
| g\_\_Polynucleobacter | HV | 3.49 | 0.01 |
| g\_\_Aurantimicrobium | HV | 3.49 | 0.01 |
| g\_\_Terrimicrobium | HV | 3.48 | 0.01 |
| g\_\_Sporichthya | HV | 3.47 | 0.01 |
| g\_\_Bacteroides | HV | 3.46 | 0.01 |
| g\_\_Kluyvera | HV | 3.44 | 0.01 |
| g\_\_norank\_f\_\_Chitinophagaceae | HV | 3.38 | 0.01 |
| g\_\_norank\_f\_\_Burkholderiaceae | HV | 3.31 | 0.01 |
| g\_\_norank\_f\_\_B1\_7BS | HV | 3.25 | 0.01 |
| g\_\_Desulfovibrio | HV | 3.24 | 0.01 |
| g\_\_Sphingorhabdus | HV | 3.23 | 0.01 |
| g\_\_Legionella | HV | 3.22 | 0.01 |
| g\_\_IMCC26207 | HV | 3.2 | 0.01 |
| g\_\_Gordonia | HV | 3.11 | 0.02 |
| g\_\_norank\_f\_\_norank\_o\_\_SJA\_28 | HV | 3.08 | 0.01 |
| g\_\_Bdellovibrio | HV | 3.07 | 0.01 |
| g\_\_Microbacterium | HV | 3.05 | 0.04 |
| g\_\_norank\_c\_\_Planctomycetacia | HV | 3.04 | 0.01 |
| g\_\_Candidatus\_Berkiella | HV | 3.03 | 0.01 |
| g\_\_norank\_f\_\_Xanthobacteraceae | HV | 3.03 | 0.01 |
| g\_\_CL500\_3 | HV | 2.99 | 0.01 |
| g\_\_Thermomonas | HV | 2.99 | 0.01 |
| g\_\_norank\_ o\_\_Gammaproteobacteria\_Incertae\_Sedis | HV | 2.96 | 0.01 |
| g\_\_unclassified\_f\_\_Rickettsiaceae | HV | 2.96 | 0.01 |
| g\_\_Candidatus\_Endonucleariobacter | HV | 2.91 | 0.02 |
| g\_\_Leptotrichia | HV | 2.91 | 0.01 |
| g\_\_unclassified\_f\_\_Burkholderiaceae | HV | 2.9 | 0.01 |
| g\_\_norank\_f\_\_Rickettsiaceae | HV | 2.9 | 0.02 |
| g\_\_Dechloromonas | HV | 2.89 | 0.01 |
| g\_\_norank\_f\_\_SC\_I\_84 | HV | 2.87 | 0.01 |
| g\_\_norank\_f\_\_Paracaedibacteraceae | HV | 2.86 | 0.01 |
| g\_\_Aquicella | HV | 2.84 | 0.01 |
| g\_\_norank\_f\_\_Barnesiellaceae | HV | 2.79 | 0.01 |
| g\_\_norank\_f\_\_norank\_o\_\_SepB\_3 | HV | 2.77 | 0.02 |
| g\_\_Hydrogenophaga | HV | 2.76 | 0.01 |
| g\_\_Defluviicoccus | HV | 2.75 | 0.01 |
| g\_\_unclassified\_f\_\_Sphingomonadaceae | HV | 2.73 | 0.01 |
| g\_\_Alsobacter | HV | 2.7 | 0.01 |
| g\_\_norank\_f\_\_cvE6 | HV | 2.7 | 0.01 |
| g\_\_norank\_ c\_\_Verrucomicrobiae | HV | 2.7 | 0.01 |
| g\_\_Clostridium\_sensu\_stricto\_13 | HV | 2.69 | 0.01 |
| g\_\_Vogesella | HV | 2.69 | 0.01 |
| g\_\_unclassified\_c\_\_Gammaproteobacteria | HV | 2.68 | 0.01 |
| g\_\_norank\_f\_\_Lentimicrobiaceae | HV | 2.66 | 0.01 |
| g\_\_norank\_f\_\_Vermiphilaceae | HV | 2.65 | 0.01 |
| g\_\_norank\_f\_\_0319\_6G20 | HV | 2.64 | 0.01 |
| g\_\_Paenibacillus | HV | 2.63 | 0.01 |
| g\_\_GKS98\_freshwater\_group | HV | 2.62 | 0.01 |
| g\_\_norank\_f\_\_67\_14 | HV | 2.56 | 0.01 |
| g\_\_Epulopiscium | HV | 2.54 | 0.01 |
| g\_\_norank\_f\_\_Prolixibacteraceae | HV | 2.53 | 0.01 |
| g\_\_Agathobacter | HV | 2.51 | 0.02 |
| g\_\_Lacunisphaera | HV | 2.49 | 0.01 |
| g\_\_unclassified\_c\_\_Deltaproteobacteria | HV | 2.49 | 0.01 |
| g\_\_norank\_f\_\_Sandaracinaceae | HV | 2.46 | 0.02 |
| g\_\_Luteitalea | HV | 2.42 | 0.02 |
| g\_\_Mesorhizobium | HV | 2.41 | 0.01 |
| g\_\_Ferruginibacter | HV | 2.4 | 0.01 |
| g\_\_norank\_f\_\_Gemmataceae | HV | 2.4 | 0.01 |
| g\_\_Acidovorax | HV | 2.39 | 0.02 |
| g\_\_Gleocapsa | HV | 2.38 | 0.01 |
| g\_\_Clostridium\_sensu\_stricto\_8 | HV | 2.37 | 0.01 |
| g\_\_norank\_ o\_\_Gastranaerophilales | HV | 2.37 | 0.02 |
| g\_\_Acetobacteroides | HV | 2.36 | 0.02 |
| g\_\_norank\_f\_\_norank\_o\_\_EV818SWSAP88 | HV | 2.34 | 0.02 |
| g\_\_norank\_f\_\_norank\_o\_\_Microtrichales | HV | 2.33 | 0.01 |
| g\_\_Clostridium\_sensu\_stricto\_1 | HV | 2.33 | 0.01 |
| g\_\_norank\_f\_\_norank\_o\_\_R7C24 | HV | 2.3 | 0.01 |
| g\_\_Candidatus\_Paracaedibacter | HV | 2.29 | 0.01 |
| g\_\_unclassified\_c\_\_Subgroup\_6 | HV | 2.28 | 0.01 |
| g\_\_unclassified\_f\_\_Propionibacteriaceae | HV | 2.28 | 0.01 |
| g\_\_unclassified\_f\_\_Acetobacteraceae | HV | 2.27 | 0.01 |
| g\_\_Fodinicola | HV | 2.23 | 0.02 |
| g\_\_unclassified\_o\_\_Chlamydiales | HV | 2.23 | 0.01 |
| g\_\_norank\_f\_\_Caldilineaceae | HV | 2.22 | 0.01 |
| g\_\_Micromonospora | HV | 2.22 | 0.01 |
| g\_\_norank\_f\_\_Rubritaleaceae | HV | 2.22 | 0.01 |
| g\_\_norank\_f\_\_norank\_o\_\_norank\_c\_\_Alphaproteobacteria | HV | 2.19 | 0.01 |
| g\_\_Woeseia | HV | 2.19 | 0.02 |
| g\_\_Coxiella | HV | 2.18 | 0.01 |
| g\_\_Methylobacterium | HV | 2.16 | 0.01 |
| g\_\_norank\_f\_\_norank\_o\_\_CCM19a | HV | 2.14 | 0.02 |
| g\_\_LD29 | HV | 2.11 | 0.01 |
| g\_\_Paucibacter | HV | 2.11 | 0.02 |
| g\_\_norank\_f\_\_Steroidobacteraceae | HV | 2.08 | 0.01 |
| g\_\_Nakamurella | HV | 2.04 | 0.01 |
| g\_\_norank\_f\_\_Desulfarculaceae | HV | 2.01 | 0.02 |