The denitrification and nitrification contribution prediction using PICRUSt1.1.3.

The normalized\_otus.biom file was generated using function “normalize\_by\_copy\_number.py” with an otu table

#normalize\_by\_copy\_number.py

# -i your\_otu\_table.biom

# -o normalized\_otus.biom

# run the following scripts in PICRUSt1.1.3

# denitrification contribution ------------------------------------------------------------

metagenome\_contributions.py -i normalized\_otus.biom -l K00370, K00371, K00374, K02567, K02568, K00368, K15864, K04561, K02305, K00376, K00370, K00371, K10535, K10944, K10945, K10946 -o Denitrification\_KO\_metagenome\_contributions.tab

# nitrification contribution --------------------------------------------------------------

metagenome\_contributions.py -i normalized\_otus.biom -l K00370, K00371, K00374, K02567, K02568, K00368, K15864, K04561, K02305, K00376, K00370, K00371, K10535, K10944, K10945, K10946 -o Nitrification\_KO\_metagenome\_contributions.tab