Removal_pipeline

→ input

data/GeneECAnnotation.txt
data/GeneTaxonomicAnnotation.txt
data/count_table_contigs.txt

output →

results/removal_pipline/EC_contig_taxa_ctable.tsv
results/removal_pipline/contig_taxa_ctable.tsv
results/removal_pipline/gene_func_ec_contig_ctable.tsv
results/removal_pipline/gene_functional_EC.txt
results/removal_pipline/get_contig_taxonomy_ranked.txt

split_count_table_by_treatment

→ input

results/removal_pipline/EC_contig_taxa_ctable.tsv
results/removal_pipline/contig_taxa_ctable.tsv
results/removal_pipline/gene_func_ec_contig_ctable.tsv

output →

results/split_ctable/{treatment}_EC_contig_taxa_ctable.tsv

claculate_enzyme_diversity_score

→ input

results/split_ctable/{treatment}_EC_contig_taxa_ctable.tsv

output →

results/enzyme_divierisy/{treatment}_EC_w_taxaon_dominant.txt
results/enzyme_divierisy/{treatment}_EC_w_taxaon_dominant_knockout.txt
results/enzyme_divierisy/{treatment}_RscriptOutput.csv
results/enzyme_divierisy/{treatment}_RscriptOutput_filter_IdentMostFreq.csv
results/enzyme_divierisy/{treatment}_RscriptOutput_filter_IdentMostFreqbyEnzyme.csv
results/enzyme_divierisy/{treatment}_RscriptOutput_filter_dominance.csv

Community_knockouts_simulations

→ input

results/enzyme_divierisy/{treatment}_EC_w_taxaon_dominant_knockout.txt
results/netcom/{treatment}_resources.txt

output →

results/community_konckouts_simulation/{treatment}_compounds.txt
results/community_konckouts_simulation/{treatment}_compounds_complementry_list.txt
results/community_konckouts_simulation/{treatment}_compounds_complementry_table.txt

prepare_pathway_compounds_for_visual

→ input

 $results/community_konckouts_simulation/\{treatment\}_compounds_complementry_list.txtresults/netcom/\{treatment\}_Compounds_pathway.csv$

output →

results/netcom/{treatment}_vis_Compounds_pathway.txt

visualize_knockout_network

→ input

results/community_konckouts_simulation/{treatment}_compounds_complementry_table.txt
results/enzyme_divierisy/{treatment}_EC_w_taxaon_dominant_knockout.txt
results/netcom/{treatment}_compounds.txt
results/netcom/{treatment}_resources.txt
results/netcom/{treatment}_vis_Compounds_pathway.txt
results/removal_pipline/gene_func_ec_contig_ctable.tsv

output →

results/community_konckouts_simulation/{treatment}_compounds_complementry_pathway_count_table.tsv results/community_konckouts_simulation/{treatment}_compounds_complementry_pathway_table.tsv results/community_konckouts_simulation/{treatment}_compounds_network_notFiltered.csv results/community_konckouts_simulation/{treatment}_treatment_removal_network_knockout_pdf.pdf results/community_konckouts_simulation/{treatment}_treatment_removal_network_knockout_png.png

merge_netcom2

→ input

results/community_konckouts_simulation/NCF_compounds_network_notFiltered.csv
results/community_konckouts_simulation/NCF_treatment_removal_network_knockout_pdf.pdf
results/community_konckouts_simulation/NCF_treatment_removal_network_knockout_png.png
results/community_konckouts_simulation/cf_compounds_network_notFiltered.csv
results/community_konckouts_simulation/cf_treatment_removal_network_knockout_pdf.pdf
results/community_konckouts_simulation/cf_treatment_removal_network_knockout_png.png

output →

results/merged_netcom2.txt