READ ME

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1 First Data

Contains Data and R Code that was used to solve the fist Steps (see R Notebook "Step-by-step-final-version.Rmd" for more Information on the Steps)

1.1 Original Data

- allSNPs w gene position.tsv data of all SNPs
- alltogether_modified.gen.fasta.gen DNA sequence off all data
- alltogether_modified.lst.txt Protein name with start/end
- alltogether_modified.prt AA sequence off all data
- FixedMutations_over_time.pdf *Plot*
- FixedMutation_over_time_Mado.pdf plot
- FixedMutations_OverTime.txt 41 fixed SNP positions

1.2 Results

Contains .csv files that were output of "Step-by-step-final-version.Rmd", .xlsx where the .csv are in an excel table.

- Function_of_Proteins.pdf Here we have a list of the proteins belonging to the SNPs with more information.
- Pos AA.csv & Pos AA.xlsx The aminoacid sequence to the proteins are listed
- Pos DNA.csv & Pos DNA.xlsx The nucleotide sequence to the proteins are listed
- Result.xlsx all tables in one file
- Result_sorted.csv & Result_sorted.xlsx The proteins belonging to the SNPs are listed

1.3 VSC manipulations

Files where I had to change something manually to add the file into R are stored here.

- allSNPs w gene position spaced.tsv data of all SNPs
- alltogether modified.gen.fasta Kopie.txt DNA sequences belonging to the SNPs of AGTU.c01
- alltogether_modified.gen.fasta not nicely.gen DNA sequences belonging to the SNPs
- alltogether_modified.gen.fasta.AGTU.gen DNA sequences belonging to the SNPs of AGTU.c01 but nicer spaced
- alltogether_modified.gen.fasta_spaced.gen DNA sequence off all data
- alltogether_modified.lst_spaced.txt Protein name with start/end
- alltogether_modified_spaced.prt AA sequence off all data

1.4 Other Files

Files that are stored in the folder not belonging to another folder.

• By Hand.xlsx Counted the nucleotides by hand to find the SNP reference from the gen.fasta data.

- Confusion.xlsx Excel table of not nicely search for the reference nucleotide from the gen.fasta data for the SNPs.
- Step-by-step.Rmd Code where I have everything in there (all trials done manually or with only little data).
- $\bullet\,$ Step–by–step–final–version. Rmd $\it This\ code\ can\ be\ used\ to\ solve\ the\ first\ Steps.$

2 Infos

Contains documents that have an informational purpose.

- Introduction paper.pdf The first paper Mado gave me, that explains a lot about my data and why I do this project.
- Meetings.docx Notes from meetings with Mado
- Presentation in Labmeeting 23.09. (Mado).pptx PPP from Mado about her talk in the Labmeeting

3 Papers

Contains papers that could be useful.

- N.Surname_Year_Title.pdf
- P. Piccardi_2019_Toxicity drives facilitation between 4 bacterial species.pdf