Pipeline - Phase 2: Functional Analysis

Preparation of files

- Organisms using the results obtained from the last script, create a .csv file called
 organisms.csv in which it contains the name of the microorganisms of interest separated by
 Genus and Species. Use the following template and fill it in:
 https://github.com/VaneBR/Project/blob/main/Files/organisms.csv or
- 2. Pathways in a .txt file write the ID number of the pathways of interest and name it **pathway_ids.txt**. To look for the ID of the pathway go to: https://www.genome.jp/kegg/pathway.html

https://drive.google.com/drive/u/0/folders/18yojrGbjKc_-GAFdOLlppHP2UWXFu3f1.

Steps to use the script:

The script described below is available in the following link:

https://colab.research.google.com/drive/1Gk60AGH4BrO4-gBCOi3PDpjUREqHk8QO or in github: https://github.com/VaneBR/Project/blob/main/Scripts/functional_information.py.

- 1. Upload both organisms.csv and pathway_ids.txt in GoogleColab.
- 2. Run the script.
- 3. The output **compatibility_table_with_names.csv** has the enzymes that are present in both the bacteria and the pathways.
- 4. Analyze your results.