Microbiotal cane
compresse appetibili
Mangime complementare per cani
a base di Tributirrato microincapsulato e Polifenoli da arancia rossa
Per contrastare gli squilibri
del microbiota intestinale
NBF LANES
Divisione Veterinaria
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EST - 2015
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microbiota

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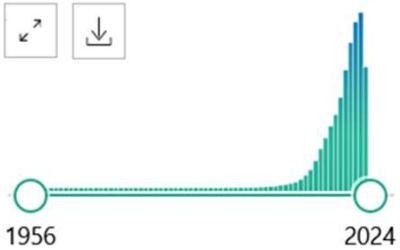
124,643 results Page 1 of 12,465

RESULTS BY YEAR



TEXT AVAILABILITY

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ARTICLE ATTRIBUTE

1 Cite Share

Cancer and the **microbiota**.

Garrett WS.

Science. 2015 Apr 3;348(6230):80-6. doi: 10.1126/science.aaa4972.

PMID: 25838377 **Free PMC article.** Review.

A host'**s microbiota** may increase, diminish, or have no effect at all on cancer susceptibility. Assigning causal roles in cancer to specific microbes and **microbiotas**, unraveling host-**microbiota** interactions with environmental factors in carcinogenesis, ...

2 Cite Share

Microbiota's role in health and diseases.

El-Sayed A, Aleya L, Kamel M.

Environ Sci Pollut Res Int. 2021 Jul;28(28):36967-36983. doi: 10.1007/s11356-021-14593-z. Epub 2021 May 27.

PMID: 34043164 **Free PMC article.** Review.

The external environment, diet, and lifestyle are the major determinants influencing the microbiome'**s** composition and vitality. Recent studies have indicated the tremendous influence of the microbiome on

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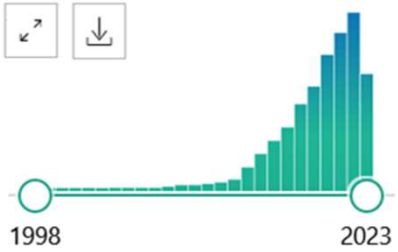
RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
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ARTICLE ATTRIBUTE

5,044 results

Page 1 of 505

1 Cite Share

Diet and the **Microbiota**-Gut-Brain Axis: Sowing the Seeds of Good Mental Health.

Berding K, Vlckova K, Marx W, Schellekens H, Stanton C, Clarke G, Jacka F, Dinan TG, Cryan JF.

Adv Nutr. 2021 Jul 30;12(4):1239-1285. doi: 10.1093/advances/nmaa181.

PMID: 33693453 **Free PMC article.** Review.

Over the past decade, the gut **microbiota** has emerged as a key component in regulating brain processes and behavior. Diet is one of the major factors involved in shaping the gut **microbiota** composition across the lifespan. However, whether and how diet can affect the ...

2 Cite Share

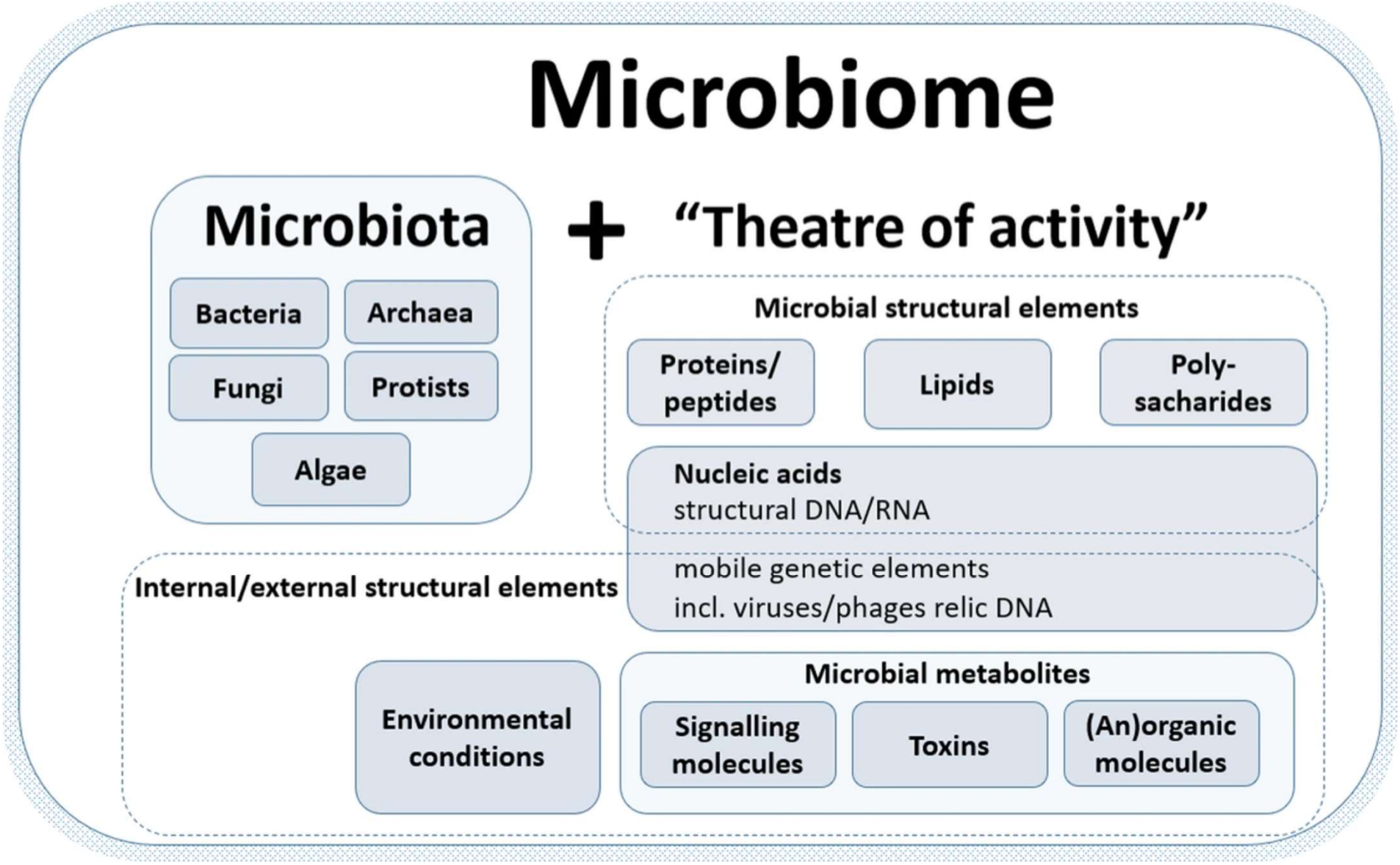
Bile acids and the gut **microbiota**: metabolic interactions and impacts on disease.

Collins SL, Stine JG, Bisanz JE, Okafor CD, Patterson AD.

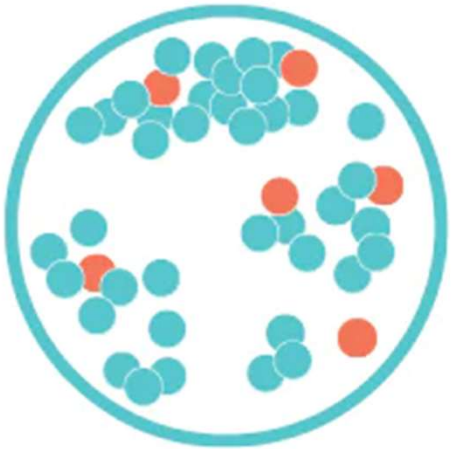
Nat Rev Microbiol. 2023 Apr;21(4):236-247. doi: 10.1038/s41579-022-00805-x. Epub 2022 Oct 17.

PMID: 36253479 Review.

In this Review, we highlight how the bile acid pool is manipulated by the gut **microbiota**, how it is dependent on the metabolic capacity of the bacterial community and how external factors, such as



https://microbiomejournal.biomedcentral.com/articles/10.1186/s40168-020-00875-0



Prebiotics

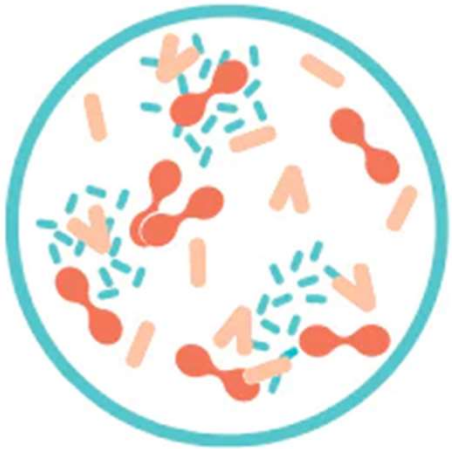
Non-digestible fiber compounds that stimulate the growth and activity of beneficial gut microorganisms.

Probiotics

Live microorganisms that inhabit the microbiome and confer health benefits when consumed in sufficient amounts.

Synbiotics

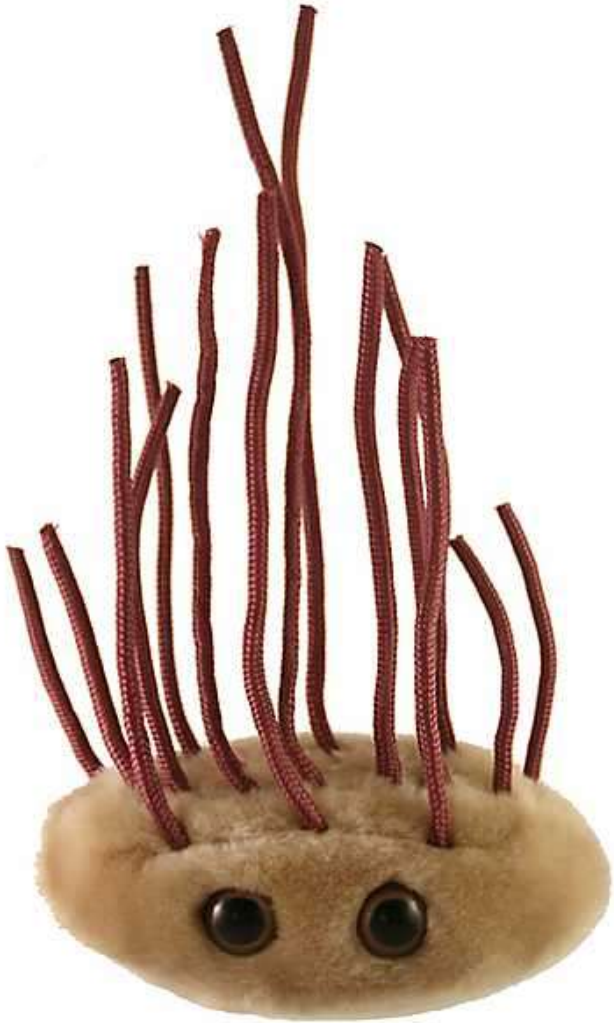
A combination of prebiotics and probiotics.

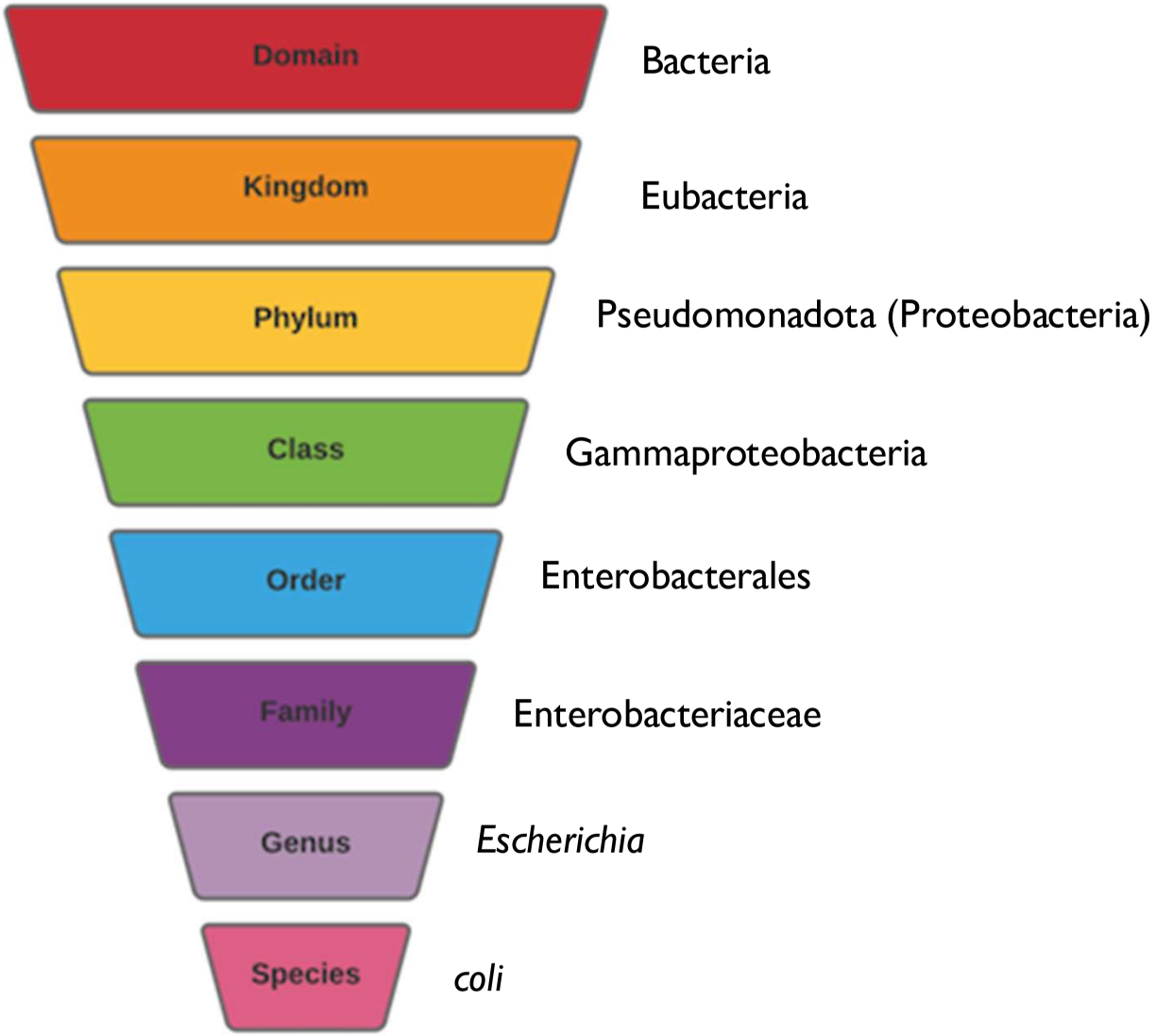


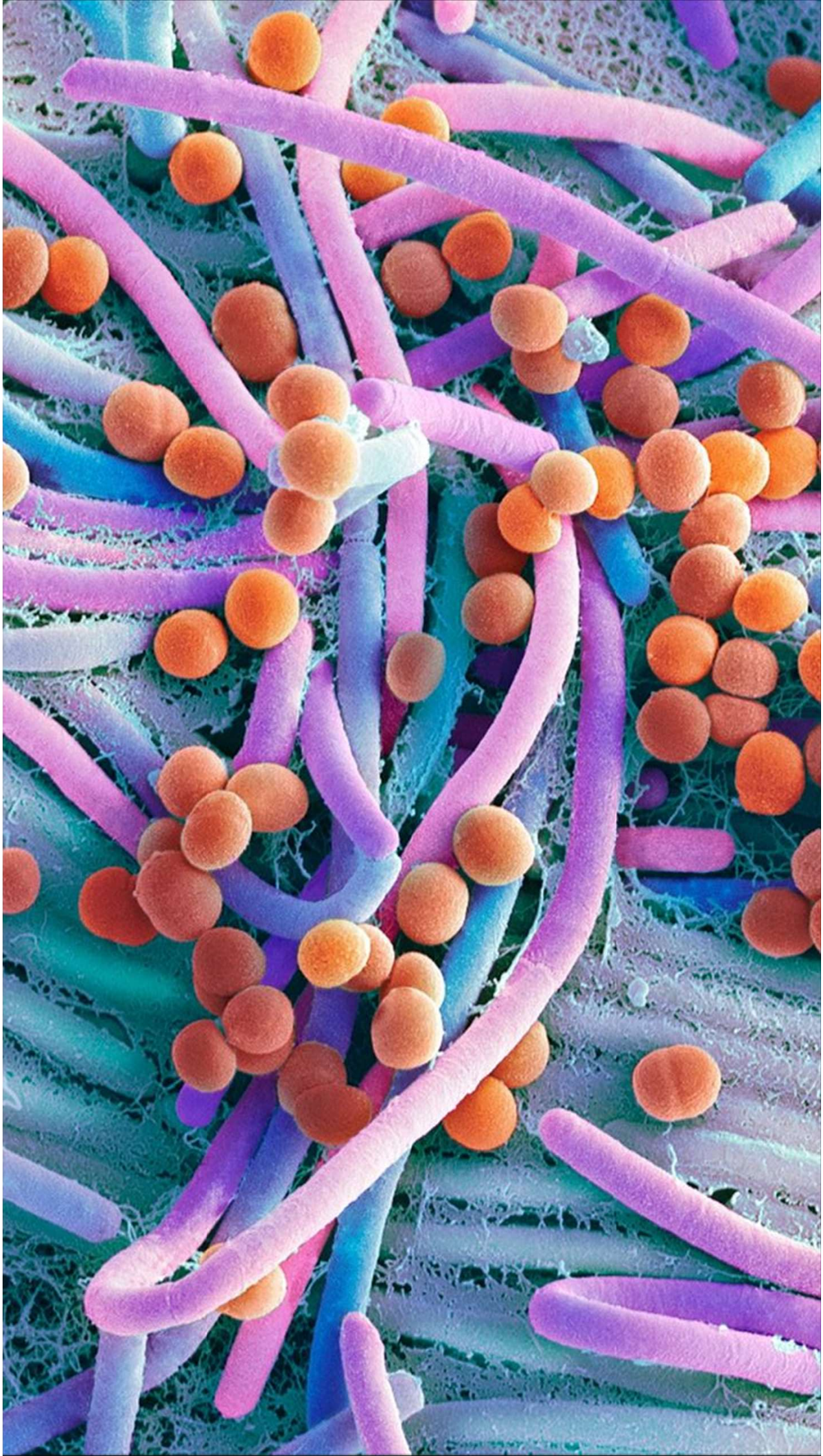
Postbiotics

Products of prebiotic and probiotic activity that mimic some of the same benefits as probiotics, but also offer additional health benefits.

OPTIMOZ
HACK YOUR LIFE




Domain
Bacteria
Kingdom
Eubacteria
Phylum
Pseudomonadota (Proteobacteria)
Class
Gammaproteobacteria
Order
Enterobacterales
Family
Enterobacteriaceae
Genus
Escherichia
Species
coli



Escherichia coli BW25113

Taxonomy ID: 679895 (for references in articles please use NCBI:txid679895)

current name

Escherichia coli BW25113

equivalent: **Escherichia coli str. BW25113**

NCBI BLAST name: **enterobacteria**
Rank: **no rank**
Genetic code: Translation table 11 (Bacterial, Archaeal and Plant Plastid)
Host: bacteria|vertebrates

Lineage *(full)*

cellular organisms; Bacteria; Pseudomonadota; Gammaproteobacteria; Enterobacterales; Enterobacteriaceae; Escherichia; Escherichia coli; Escherichia coli K-12

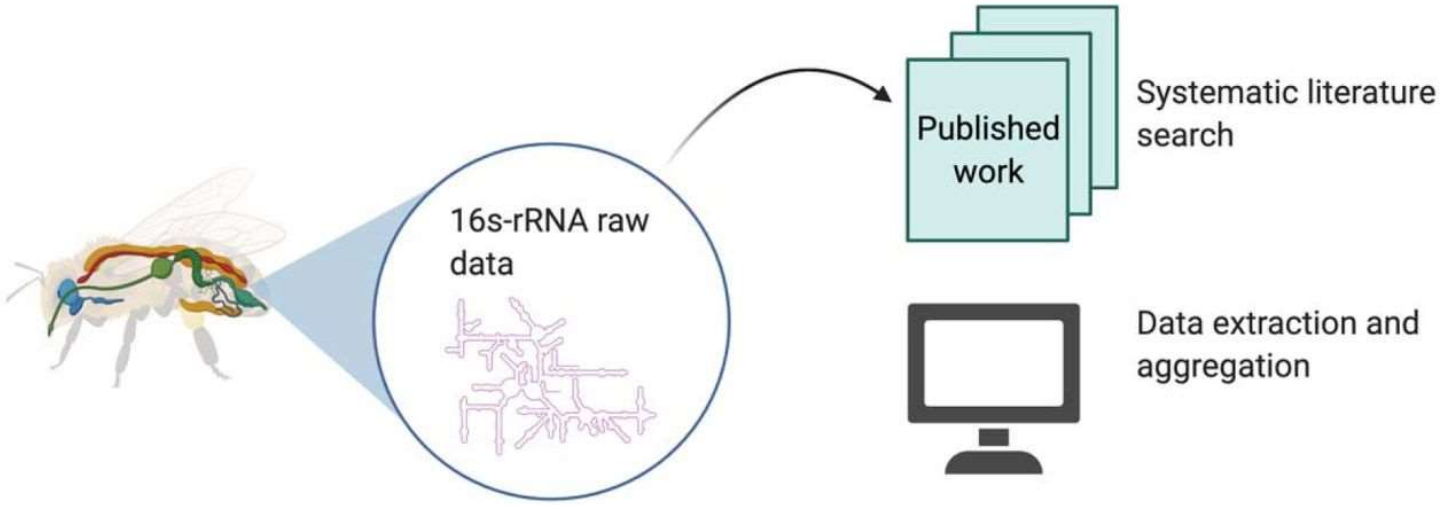
Entrez records	
Database name	Direct links
Nucleotide	64
Protein	25,687
Structure	27
Genome	1
GEO Datasets	814
PubMed Central	14
SRA Experiments	1,767
Identical Protein Groups	4,417
BioProject	99
BioSample	1,662
Assembly	6
PubChem BioAssay	195
Taxonomy	1

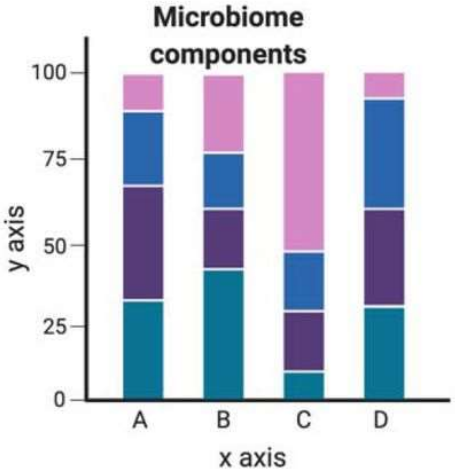
Comments and References:

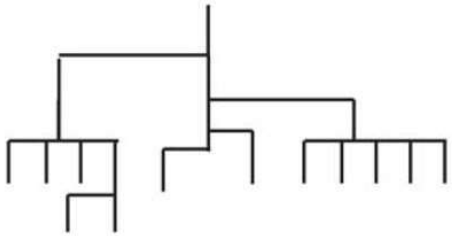
genome sequence
Determination of the DNA genome sequence of this strain has been or is being determined either in whole or in part.

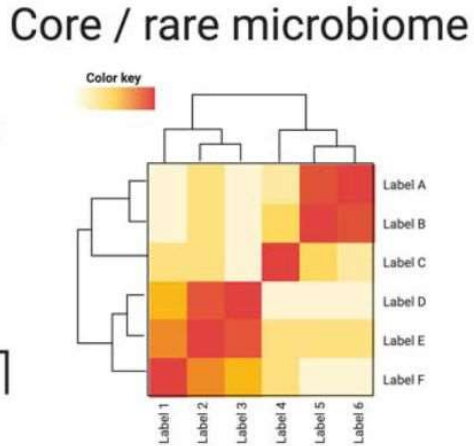
External Information Resources (NCBI LinkOut)

LinkOut	Subject	LinkOut Provider
Escherichia coli K-12 substr. BW25113	organism-specific	BioCyc
4 records from this provider	organism-specific	Genomes On Line Database
2 records from provider	organism-specific	Integrated Microbial Genomes

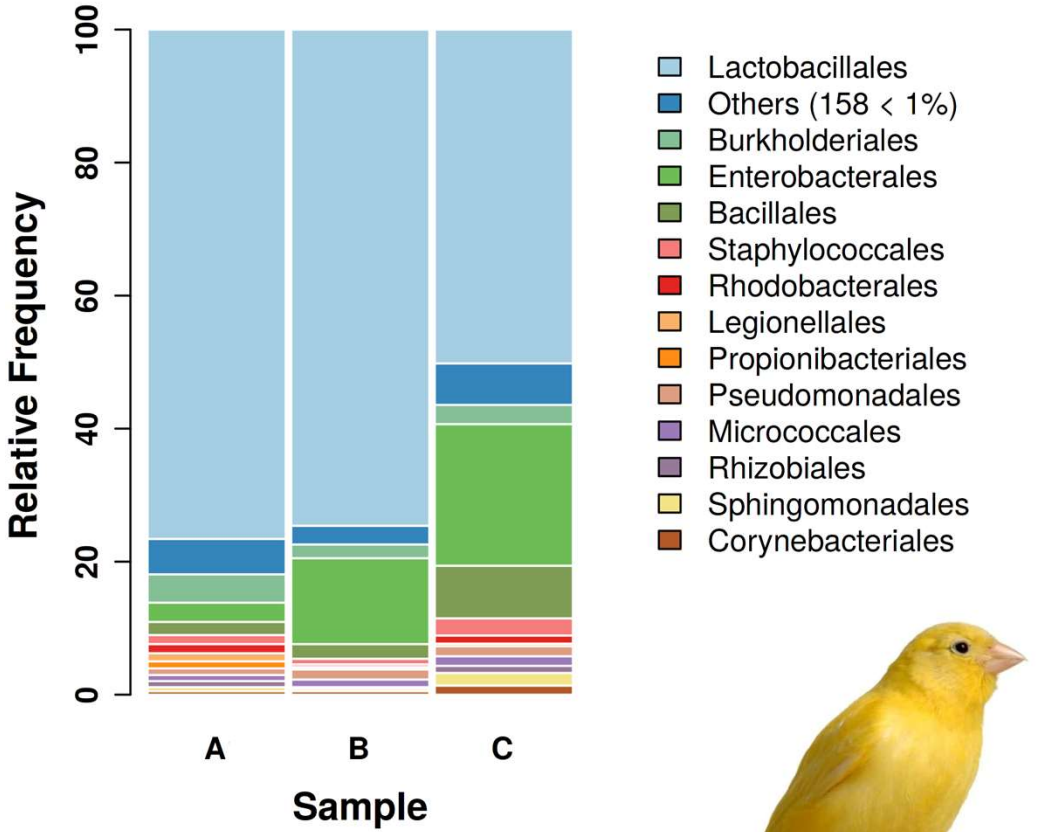


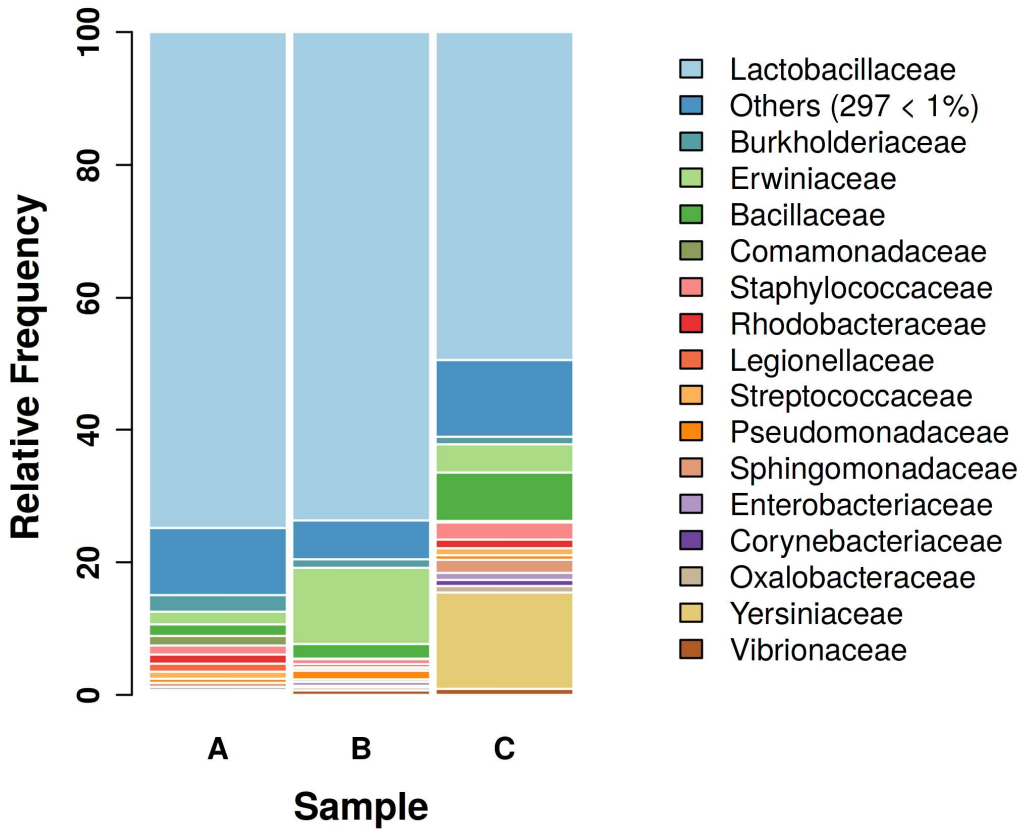






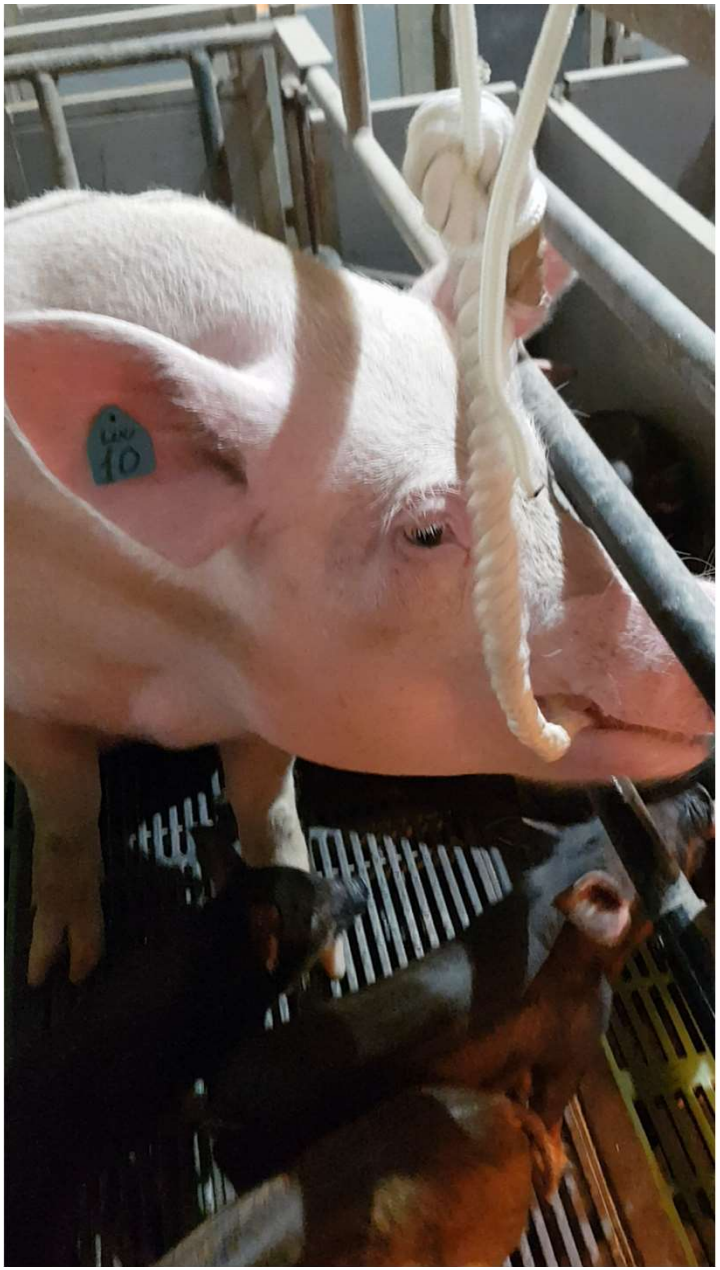
https://www.biorxiv.org/content/10.1101/2021.12.18.473299v1





https://www.mdpi.com/2076-2607/11/9/2289

https://naturalworldpets.co.uk/blogs/pet-advice/guide-to-caring-for-canaries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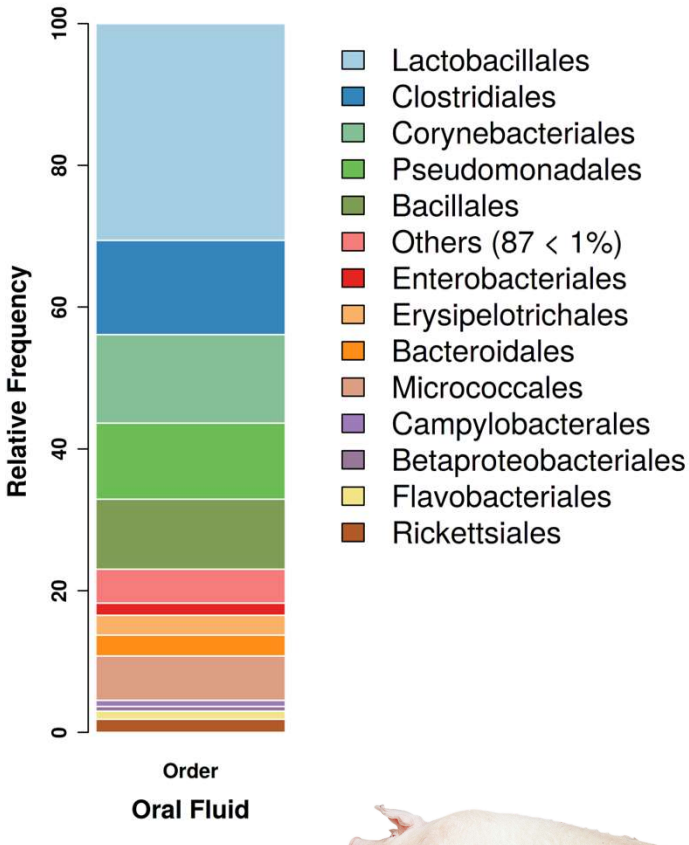
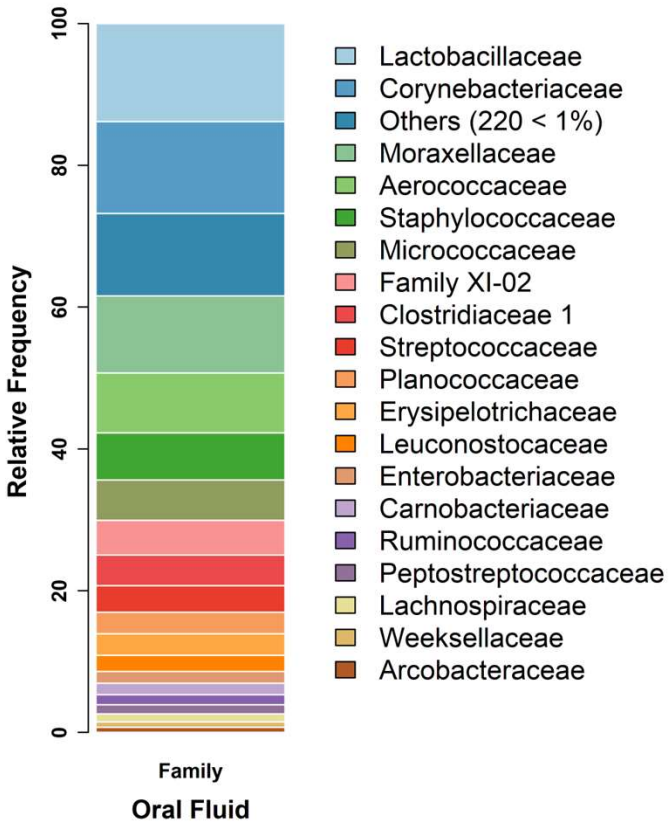
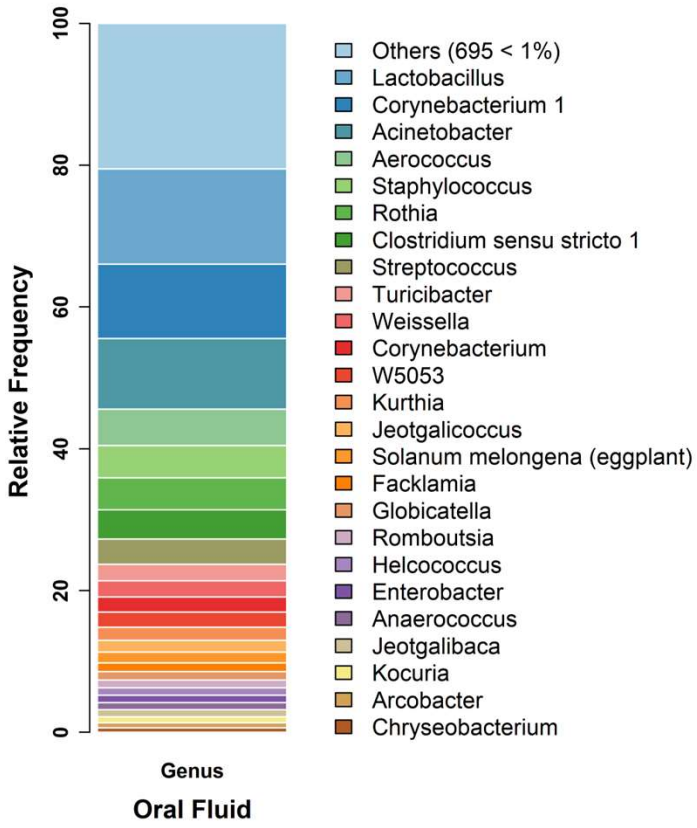
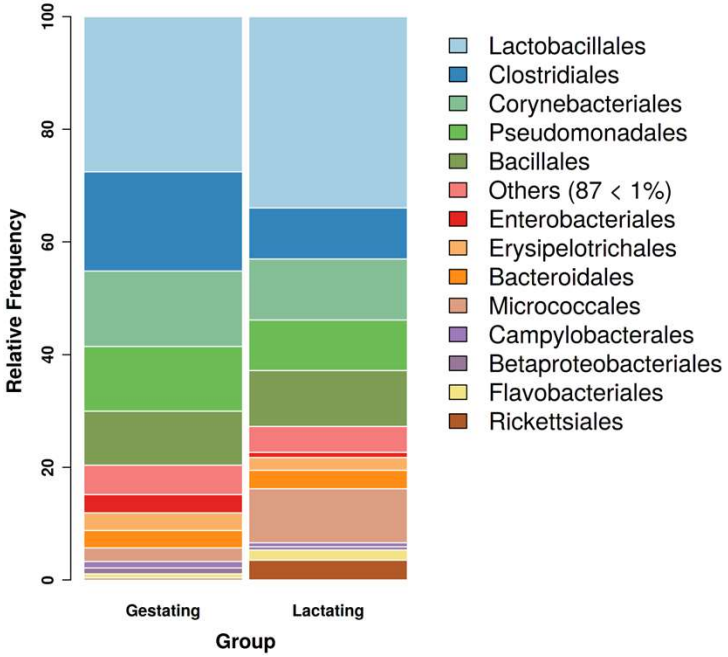


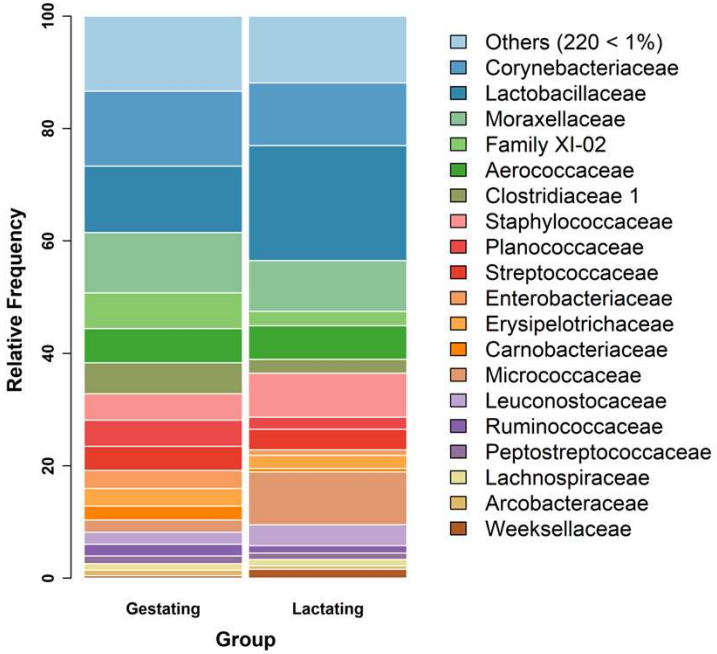


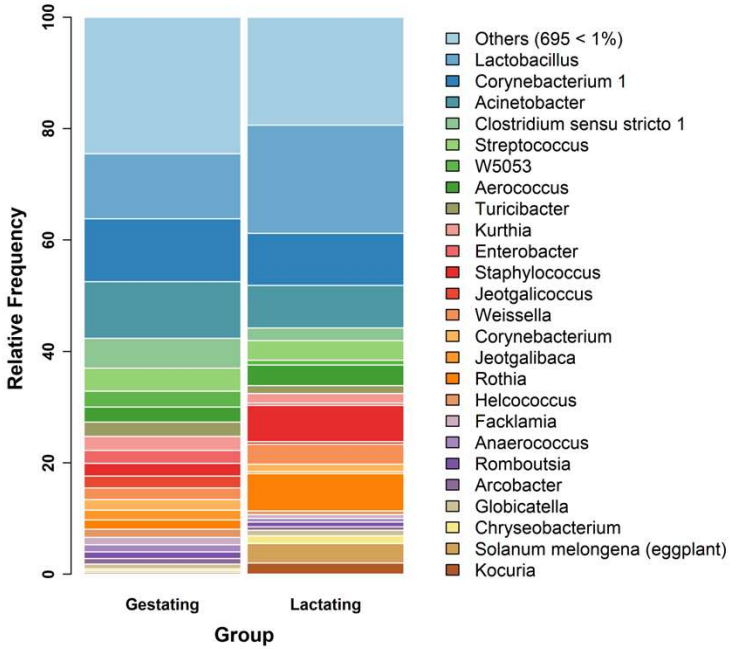


https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8619539/

https://danbred.com/increase-number-of-liveborn-piglets/

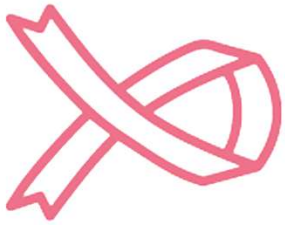






https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8619539/

https://www.feednavigator.com/Article/2019/10/23/Impact-of-feeding-interventions-in-the-sow



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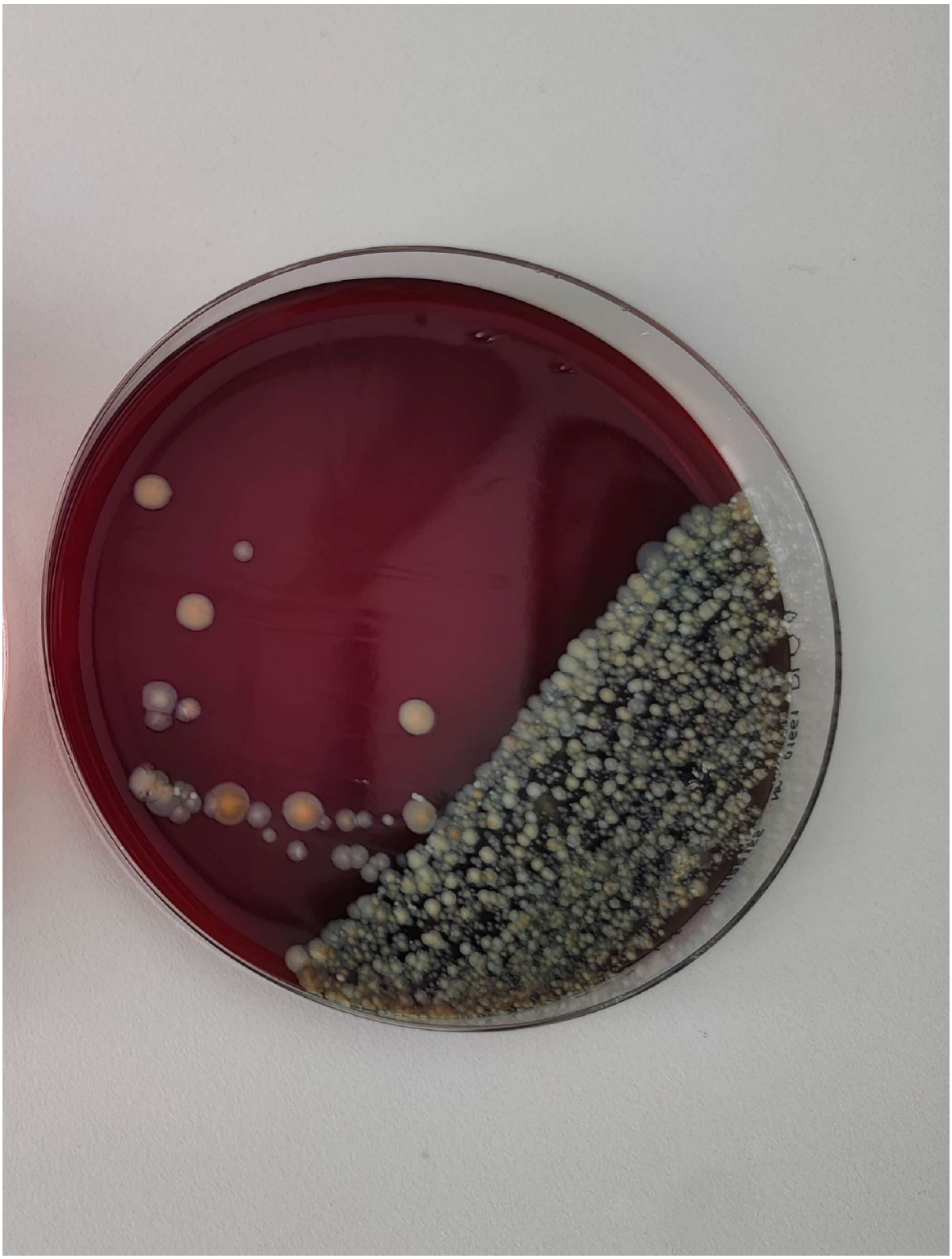
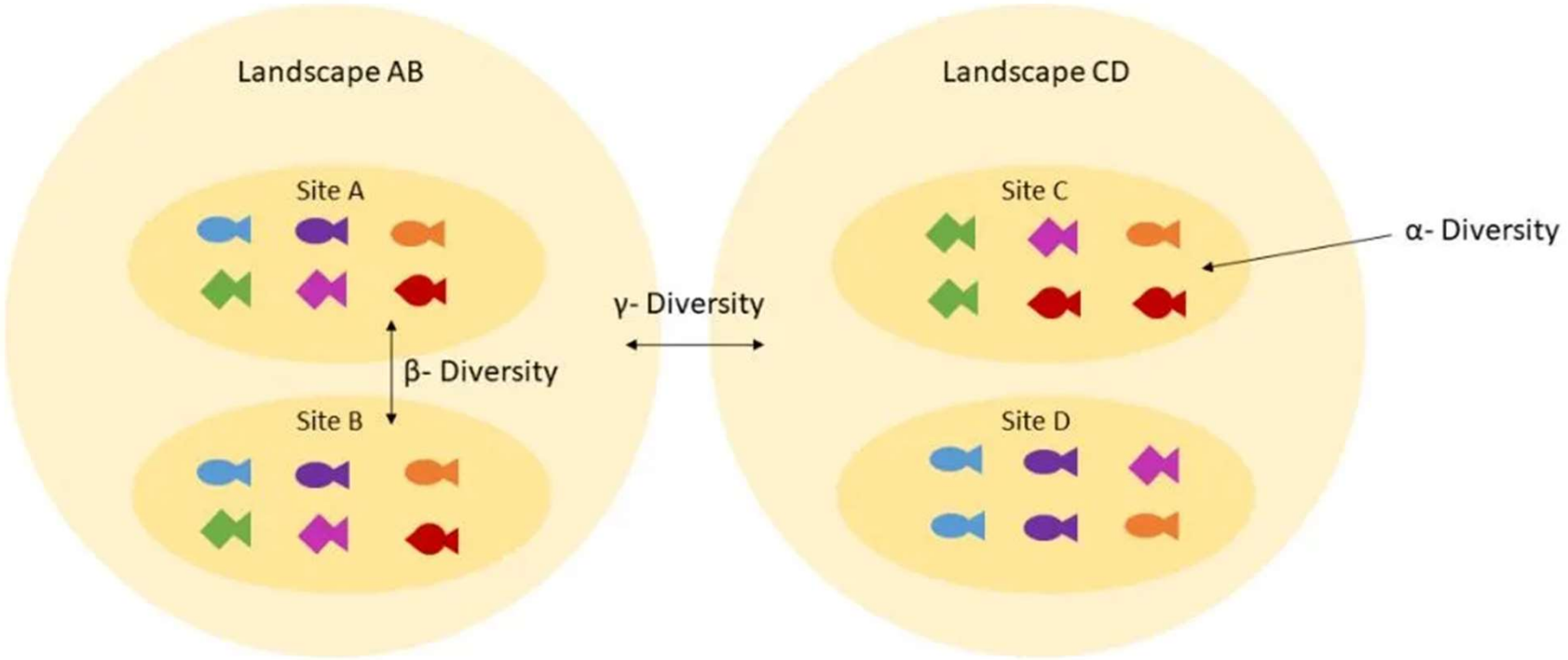
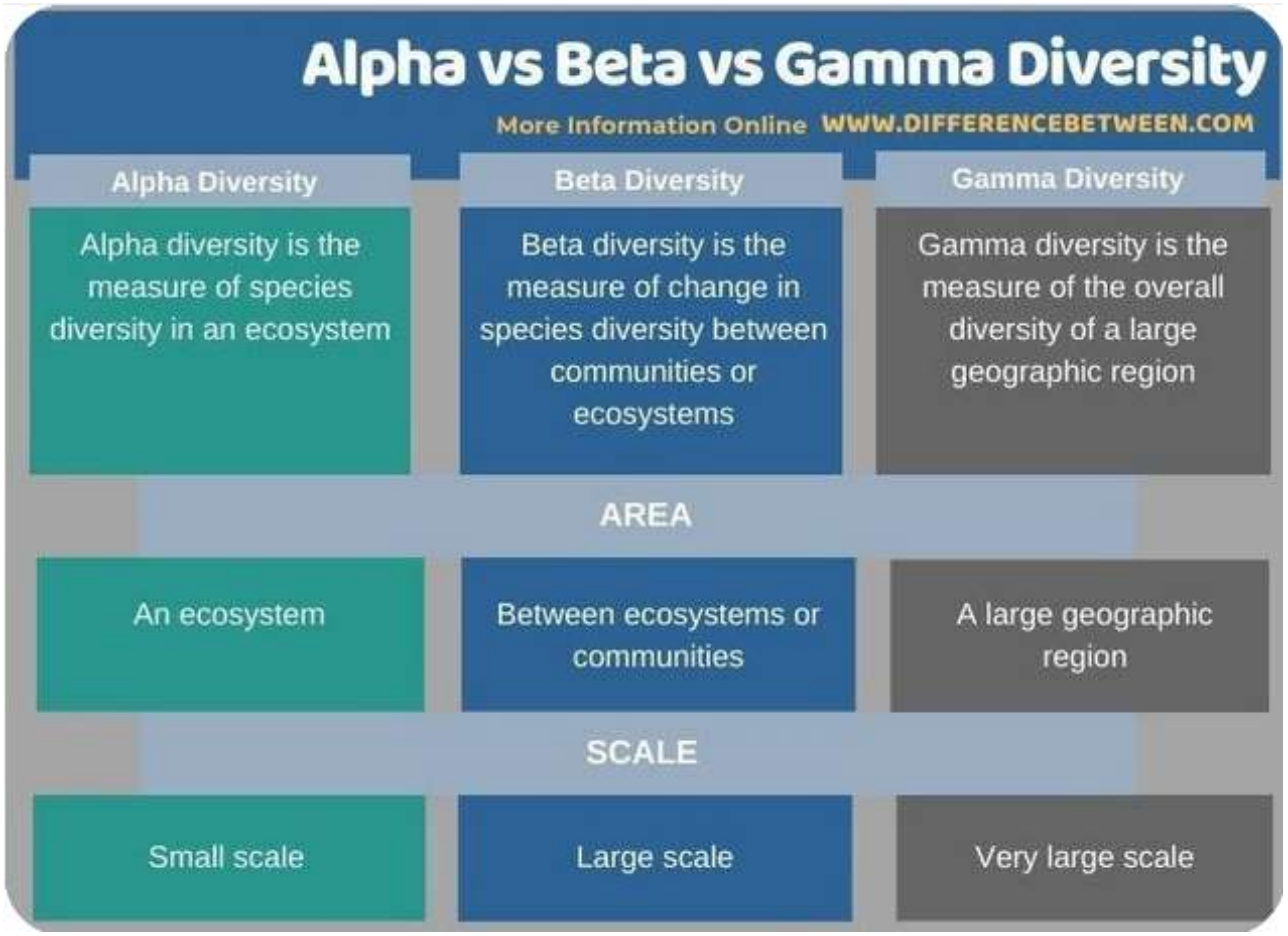
The study of the relationships between living organisms and their physical environment





https://www.differencebetween.com/what-is-the-difference-between-alpha-beta-and-gamma-diversity



https://www.differencebetween.com/what-is-the-difference-between-alpha-beta-and-gamma-diversity


How do we study microbial ecology?
Diversity indexes!

Alpha diversity

"[…] is a measure of species diversity in a particular area or an ecosystem"

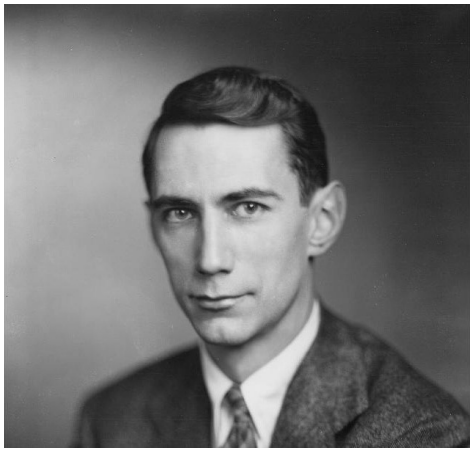
https://www.differencebetween.com/what-is-the-difference-between-alpha-beta-and-gamma-diversity/

Alpha diversity

- Diversity within a particular area or ecosystem.
- Usually expressed in terms of the number of species.
- It provides information about the species richness and evenness within a specific habitat or community.
- The higher the number of species in a particular area, the higher the alpha diversity.
- Alpha diversity is a local measure of species diversity and focuses on the diversity within a specific location.

https://edurev.in/question/3084463/Consider-the-following-scales-of-measuring-species-diversityAlpha-diversity-refers-to-the-diversity-

Alpha diversity: Shannon index



"Also known as Shannon entropy. The more different letters present, and the more equal their proportional abundances in the string of interest, the more difficult it is to predict which letter will be the next one in the string"

https://www.cd-genomics.com/microbioseq/the-use-and-types-of-alpha-diversity-metrics-in-microbial-ngs.html

Alpha diversity: Simpson index

"Is the measure of the degree of concentration when individuals are classified into types. Simpson index is equal to the probability of the two entities taken at random from the dataset of interest represent the same type"

https://www.cd-genomics.com/microbioseq/the-use-and-types-of-alpha-diversity-metrics-in-microbial-ngs.html

Alpha diversity: Chao 1 and 2

“Chao 1 is an estimator based on abundance; thus, it requires data that refers to the abundance of individual samples belonging to a certain class. Chao 2 is an estimator based on the incidence; thus, it requires data that specifies the absence or presence of a species in a sample.

Chao's index is for the estimation of species richness.”

https://www.cd-genomics.com/microbioseq/the-use-and-types-of-alpha-diversity-metrics-in-microbial-ngs.html

Beta diversity

"[…] refers to the change in species diversity between communities or ecosystems. Hence, beta diversity allows the comparison of biodiversity between ecosystems"

https://www.differencebetween.com/what-is-the-difference-between-alpha-beta-and-gamma-diversity/

Beta diversity

- Comparison of diversity between ecosystems and different communities.
- It measures the change in the amount of species between different habitats or communities.
- It provides information about the turnover or replacement of species between different locations.
- It helps us understand how different habitats or communities are distinct from each other in terms of species composition.
- It is calculated by comparing the number of species shared between two or more habitats or communities.
- The higher the beta diversity, the greater the difference in species composition between habitats or communities.

https://edurev.in/question/3084463/Consider-the-following-scales-of-measuring-species-diversityAlpha-diversity-refers-to-the-diversity-

Beta diversity: Bray-Curtis dissimilarity

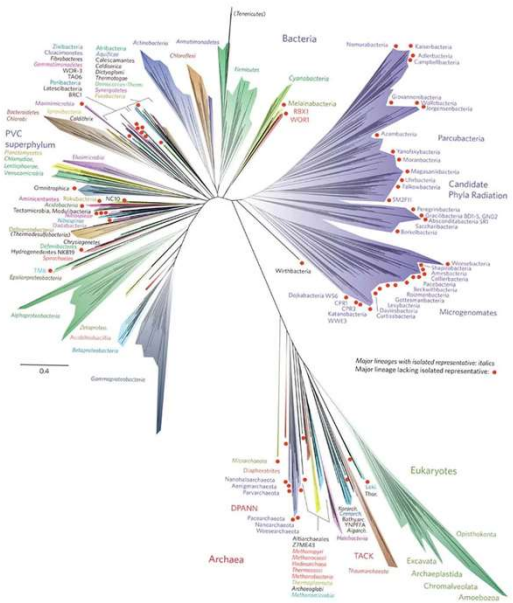
"It is a statistic used to quantify the compositional dissimilarity between two different sites, based on counts at each site"

$$BC_d = \frac{\sum \left| x_i - x_j \right|}{\sum \left(x_i + x_j \right)}$$

Bray, J. Roger; Curtis, J. T. (1957). "An Ordination of the Upland Forest Communities of Southern Wisconsin". Ecological Monographs. 27 (4): 325–349. doi:10.2307/1942268. ISSN 0012-9615. JSTOR 1942268.

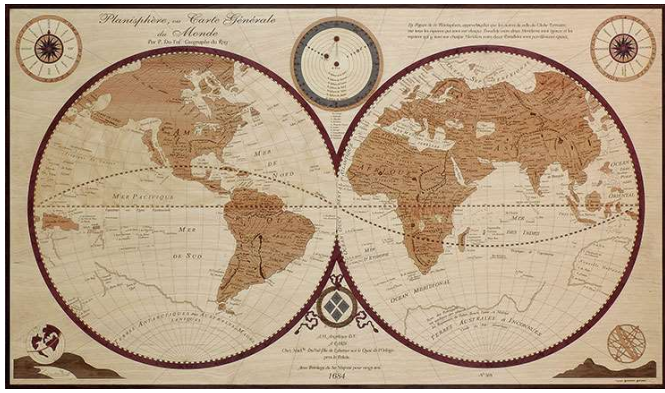
Beta diversity: Uni-Frac (Weighted vs Un-Weighted)

It is a phylogenetic method that measures the distance between communities based on the lineages they contain.



Felsenstein, J. 2004. Inferring phylogenies. Sinauer Associates, Inc., Sunderland, Mass.

Gamma diversity



"[…] is the measure of overall biodiversity in a large geographic region. Therefore, it measures the total diversity of every ecosystem in that region"

https://www.differencebetween.com/what-is-the-difference-between-alpha-beta-and-gamma-diversity/