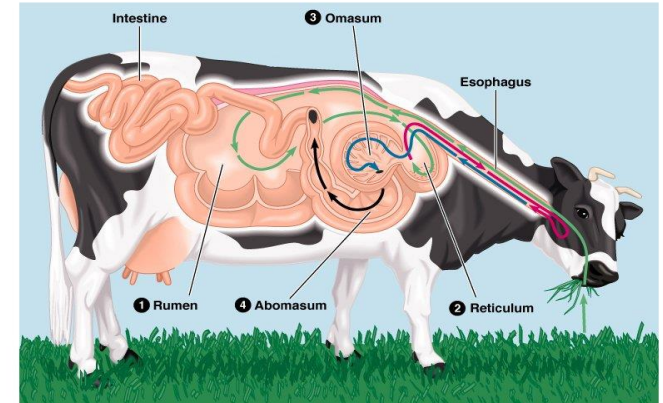


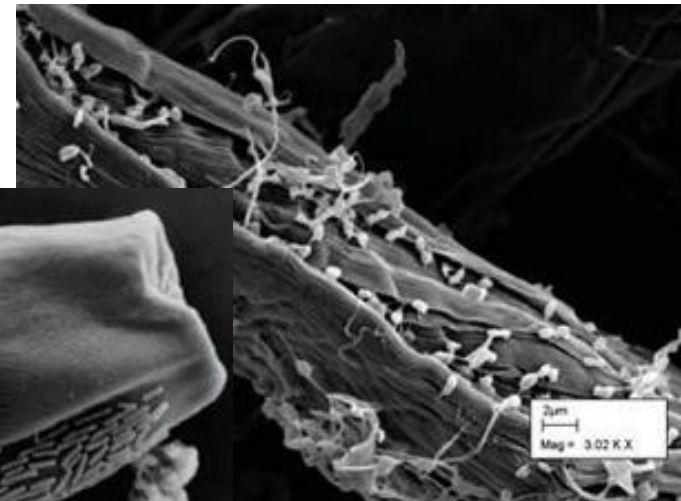
Research activities related to the mitigation of enteric methane production in ruminants

Research infrastructures

- Chambers for sheep and cattle
- Tents for group measurements
- SF6 technique
- Lasers
- In vitro systems
- Microbial biobank
- Sequencing facilities
- High capacity computer



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BBSRC Institute Strategic Programme Grant “Rumen systems biology”

Objectives:

To understand the rumen as a system so that forage traits can be targeted and used to direct rumen function and metabolism for increasing digestive efficiency, lowering methanogenesis and nitrogen excretion and animal health

Progress through a systems approach

Function

Genomes

Taxonomy

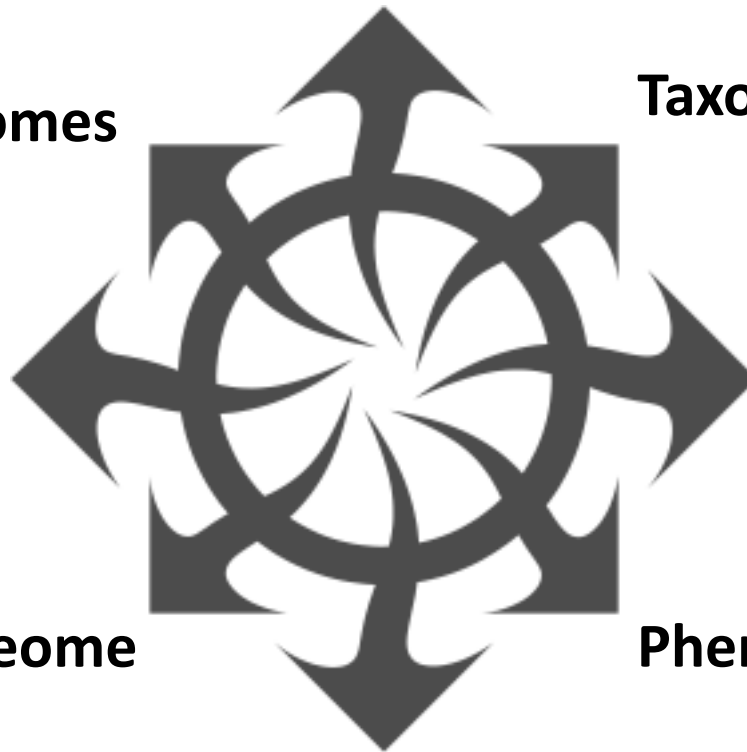
Transcriptome

Evolutionary history

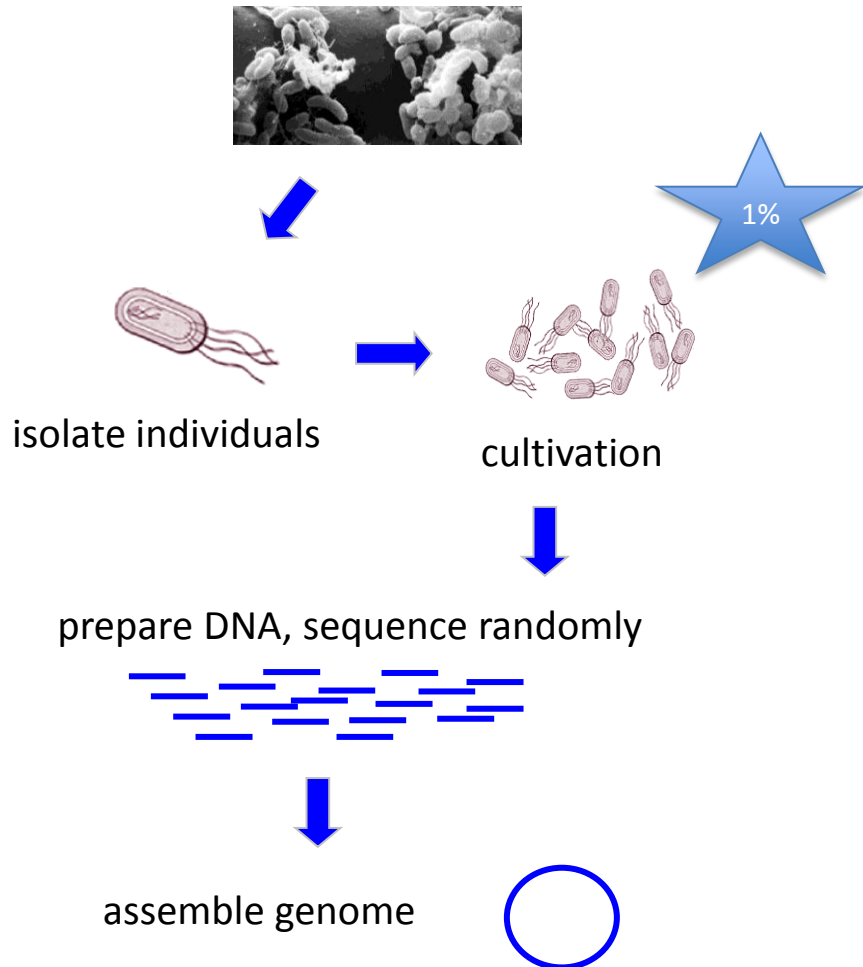
Proteome

Phenotypes

Metabolome



Traditional microbial genomics



Metagenomics

