Florilege: a database gathering microbial phenotypes of food interest


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FLORILÈGE: A DATABASE GATHERING MICROBIAL PHENOTYPES OF FOOD INTEREST

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FERMENTATION and BIOPRESERVATION are important processes of food industry, involving many strains of bacteria and yeast.

The AIM of the project is to gather phenotypes of bacteria and yeast from scattered literature and from microbial collections.

**Exemple of text-mining using AlvisAE tool**

Already done:
- List of microbial phenotypes with food interest
- List of bacterial species and strains
- Machine learning with Alvisae
  - Identification of:
    - > 368 phenotypes
    - > 260 synthetised or degraded molecules
    - > 1576 medium or food products
    - > 1181 bacterial taxons
- Ontology of habitats (from OntoBiotope project)
- Database gathering taxons, culture medium and food products

On going:
- Ontology of food products (on particular for cheese and bread)
- Database containing phenotypes with user friendly interface for requests

To be done:
- Ontology of phenotypes for efficient request on database
- Phenotypes of yeast