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Florilege : a database gathering microbial phenotypes of food interest

Hélène Falentin, Estelle Chaix, Bedis Dridi, Philippe Bessieres, S Buchin, Stéphanie-Marie Deutsch, Magalie Weber, Robert Bossy, Sandra Derozier, Bruno Perret, et al.

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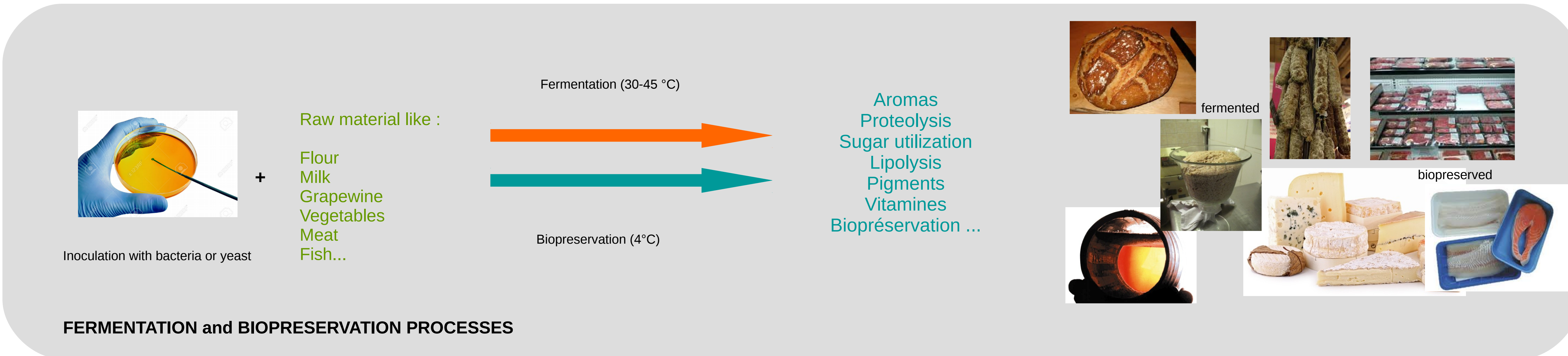
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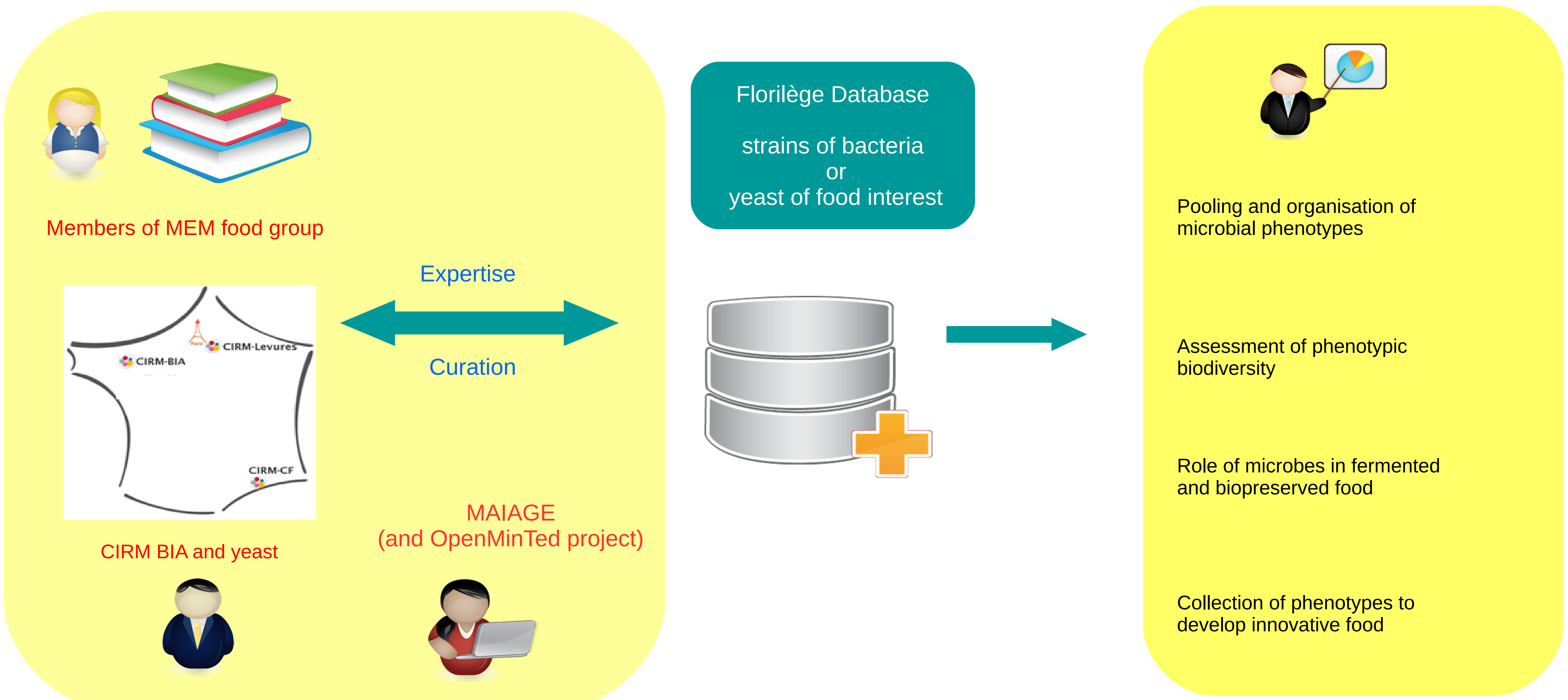
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FLORILÈGE: A DATABASE GATHERING MICROBIAL PHENOTYPES OF FOOD INTEREST

FALENTIN HÉLÈNE ⁽¹⁾ CHAIX ESTELLE ⁽¹¹⁾ DRIDI BEDIS ⁽⁷⁾ BESSIERES PHILIPPE ⁽¹¹⁾ BUCHIN SOLANGE ⁽⁵⁾
 DEUTSCH STEPHANIE-MARIE ⁽¹⁾ WEBER MAGALIE ⁽²⁾ BOSSY ROBERT ⁽¹¹⁾ DEROZIER SANDRA ⁽¹¹⁾
 PERRET BRUNO ⁽⁴⁾ AUBIN SOPHIE ⁽¹⁰⁾ DELEGER LOUISE ⁽¹¹⁾ DIBIE JULIETTE ⁽¹²⁾ DELBES CELINE ⁽⁶⁾
 IRLINGER FRANCOISE ⁽⁴⁾ VALENCE FLORENCE ⁽⁸⁾ CASAREGOLA SERGE ⁽⁹⁾ THIERRY ANNE ⁽¹⁾
 ZAGOREC MONIQUE ⁽³⁾ CHAMPOMIER-VERGES MARIE-CHRISTINE ⁽⁷⁾ BA MOUAMADOU ⁽¹¹⁾ FERRE ARNAUD ⁽¹¹⁾
 RENAULT PIERRE ⁽⁷⁾ LOUX VALENTIN ⁽¹¹⁾ NEDELLEC CLAIRE ⁽¹¹⁾ SICARD DELPHINE ⁽¹³⁾



FERMENTATION and BIOPRESERVATION PROCESSES



SCHMATIC VIEW of Florilège project



ID	Annotation Set	RI	Type	Details	Vis
3366...	Mhalemtin @annotation		Studied_for	Agent ✓ Taxon <i>Arthrobaacter</i> - Activity ✓ Use pigments	
3366...	Mhalemtin @annotation		Studied_for	Agent ✓ Taxon <i>Microbacterium</i> - Activity ✓ Use pigments	
3366...	Mhalemtin @annotation		Studied_for	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Activity ✓ Use coloring	
3366...	Mhalemtin @annotation		Studied_for	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Activity ✓ Use pigments	
3366...	Mhalemtin @annotation		Produce_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Product ✓ Molecule <i>3,3'-dihydroxy-isosaccharinate</i> - Location ✓ Habitat <i>synthetic</i>	
3366...	Mhalemtin @annotation		Studied_for_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Activity ✓ Use pigment - Location ✓ Habitat <i>cheese</i>	
3366...	Mhalemtin @annotation		Produce_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Product ✓ Molecule <i>isomers of isosaccharinate and hydrolytic derivatives</i> - Location ✓ Habitat <i>cheese</i>	
3366...	Mhalemtin @annotation		Produce_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Product ✓ Molecule <i>mono-hydroxy-isosaccharinate</i> - Location ✓ Habitat <i>synthetic</i>	
3366...	Mhalemtin @annotation		Produce_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Product ✓ Molecule <i>isomers of isosaccharinate and hydrolytic derivatives</i> - Location ✓ Habitat <i>synthetic culture media</i>	
3366...	Mhalemtin @annotation		Lives_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Location ✓ Habitat <i>synthetic culture media</i>	
3366...	Mhalemtin @annotation		Lives_in	Agent ✓ Taxon <i>Arthrobaacter nicotianae</i> - Location ✓ Habitat <i>cheese</i>	
3366...	Mhalemtin @annotation		Lives_in	Agent ✓ Taxon <i>Brevibacterium lineans</i> - Location ✓ Habitat <i>cheese</i>	

Manual annotation interface (AlvisAE tool) to provide training and evaluation data to text-mining systems.

Previous work :

List of bacterial species and strains providing habitat and phenotype concepts (OntoBiotope Ontology)

Already done:

List of microbial phenotypes of food interest

Machine learning with AlvisNLP

Identification in scientific papers :

> 368 phenotypes

> 260 synthesised or degraded molecules

> 1076 medium or food products

> 1181 bacterial taxons

First release of a database with text-mining extraction gathering taxons, media and food products

On going:

Review of OntoBiotope Habitat Ontology (on particular for cheese and bread)

> Second Release of database including phenotypes

To be done:

For efficient request on database

> Review of OntoBiotope Phenotype Ontology with addition of yeast phenotypes

