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## Metabolic profiles of complex fermentation matrices from cream and bakery industry

<u>Amandine ROCHER<sup>1,2</sup>, Lindsay PEYRIGA<sup>1,2</sup>, Annabelle FERNANDEZ<sup>3</sup>, Pascal VANDEKERCKOVE<sup>4</sup>, Floriant BELLVERT<sup>1,2</sup></u>

<sup>1</sup> Toulouse Biotechnology Institute, TBI-INSA Toulouse INSA/CNRS 5504-UMR INSA/INRAE 792, Toulouse, France <sup>2</sup> MetaboHUB-MetaToul, National Infrastructure of Metabolomics and Fluxomics, Toulouse, 31077, France

Introduction

Microbial ecosystems are key factors in food production by fermentation. The metabolic potential of **ecosystems** is very important and varies depending on the ecosystem composition and the metabolic capacity of the different partners. The construction of the **metabolic map** of an ecosystem is an important tool to understand, develop and use these metabolic capacities. In this context the **MetaPath Bpi France project** aims to develop an integrated solution allowing this modeling. In this context, the **MetaToul platform** aims to develop methods adapted to different food matrices for study of the metabolism, the most accurate and global possible of these different cellular ecosystems. Our main action is first of all to develop, on these complex fermented cream and sourdoughs, **the extraction and global analysis of the central and energetic metabolism**.

<sup>3</sup> BEL, Département Recherche Appliquée, Equipe Génie Biologique, 41100 Vendôme, France
<sup>4</sup> LESAFFRE, Direction R&I, Analytical Science team, 59700 Marcq-en-Baroeul, France





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