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Start of project: 2024

ABOUT ME

B.Sc. in Molecular Biology and Biotechnology
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M.Sc. in Molecular Biology
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Team CoMIAl + UFZ Leipzig

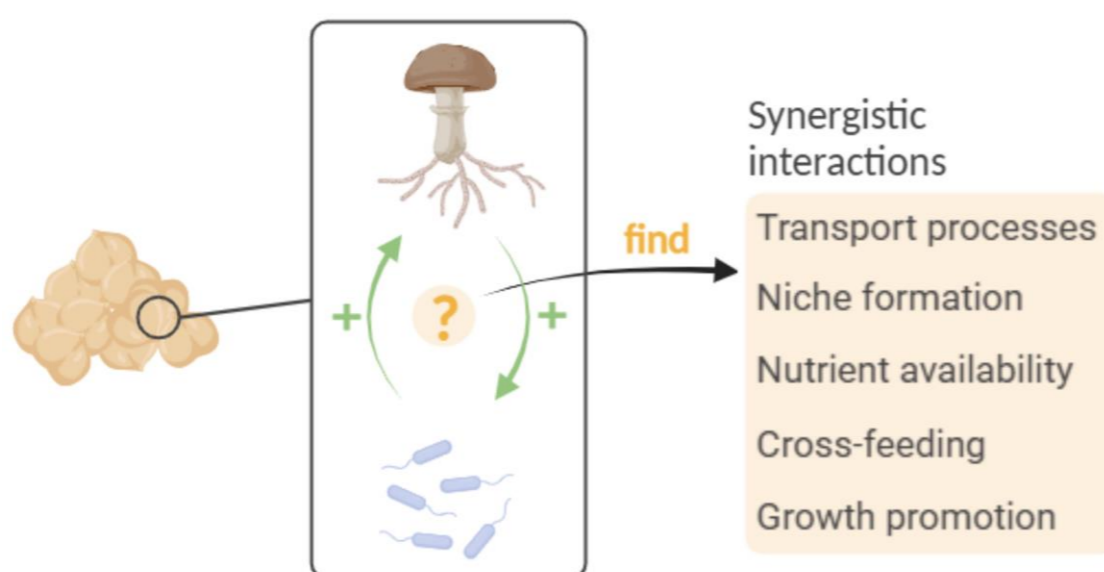
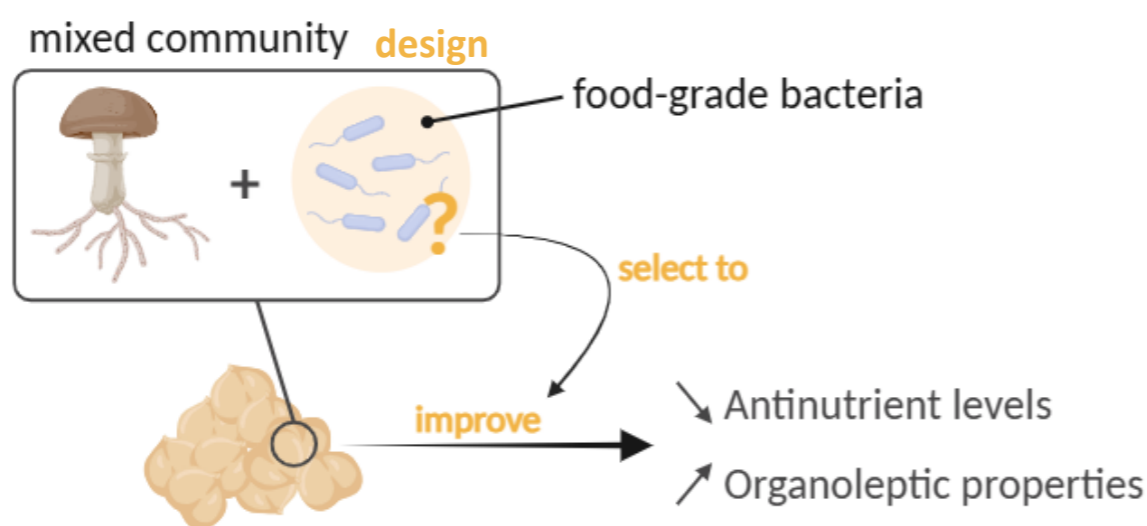
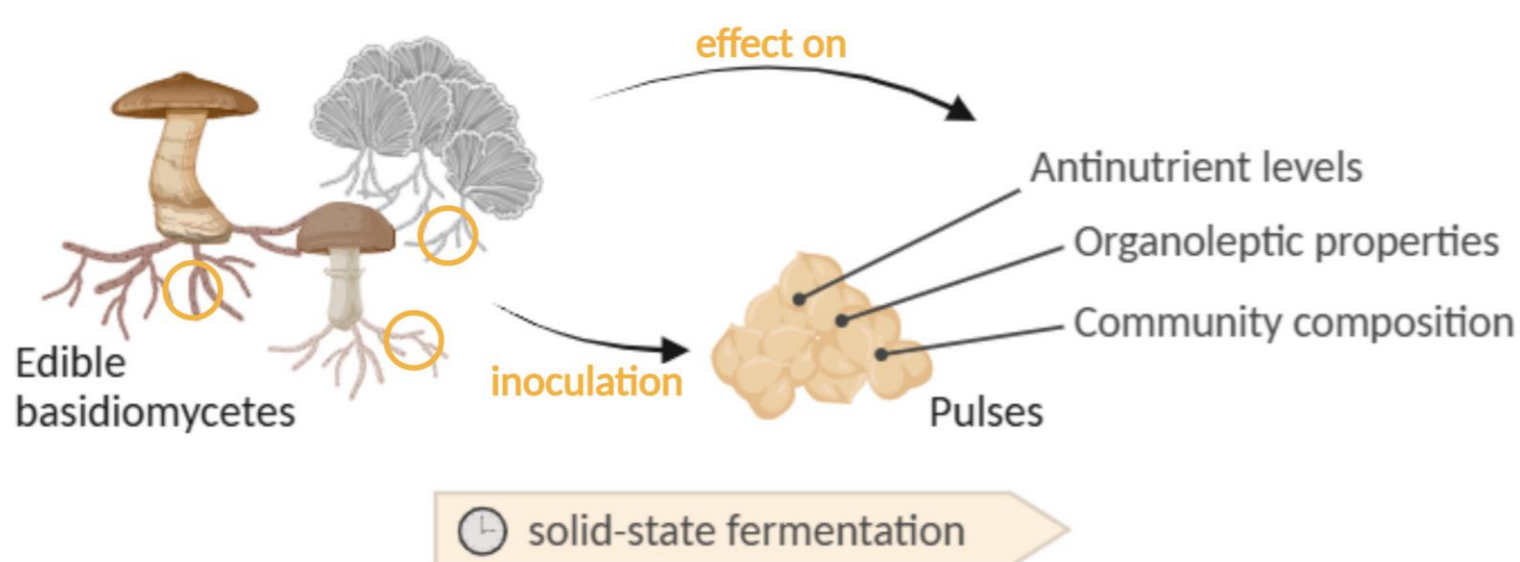
Supervisors : Vincent Hervé, Eric Dugat-Bony, Pascal Bonnarme, Lukas Y. Wick

Keywords

food fermentation, Basidiomycota, interkingdom interactions, plant-based foods

Deciphering the role of bacterial-fungal interactions in plant-based fermented food.

Graphical abstract



Objectives

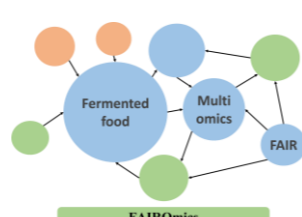
- Characterization of solid-state fermentation of pulses using Basidiomycetes
- Reduction of antinutrients and improved organoleptic properties in legumes
- Identification of synergistic bacterial-fungal interacting in plant-based fermentation

Methods used

- Solid-state fermentation
- Volatilomics (GC/MS)
- Metabolomics (LC/MS)
- Transcriptomics (RNA-Seq)
- Stable isotope probing

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Funding & Collaborators



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