BRAIN Biotech AG

Creating a #BiobasedFuture

BRAIN CMD 2024

Esther Gabor, Director, Head of Microbial Strain Development

R&D spotlight

enabling sustainable food by microbial fermentation

Zwingenberg, December 12th, 2024

WE SUPPORT



Since 2021 we have been committed to the UN Global Compact corporate responsibility initiative and its principles in the areas of human rights, labor, the environment and anti-corruption.





Creating a #BiobasedFuture



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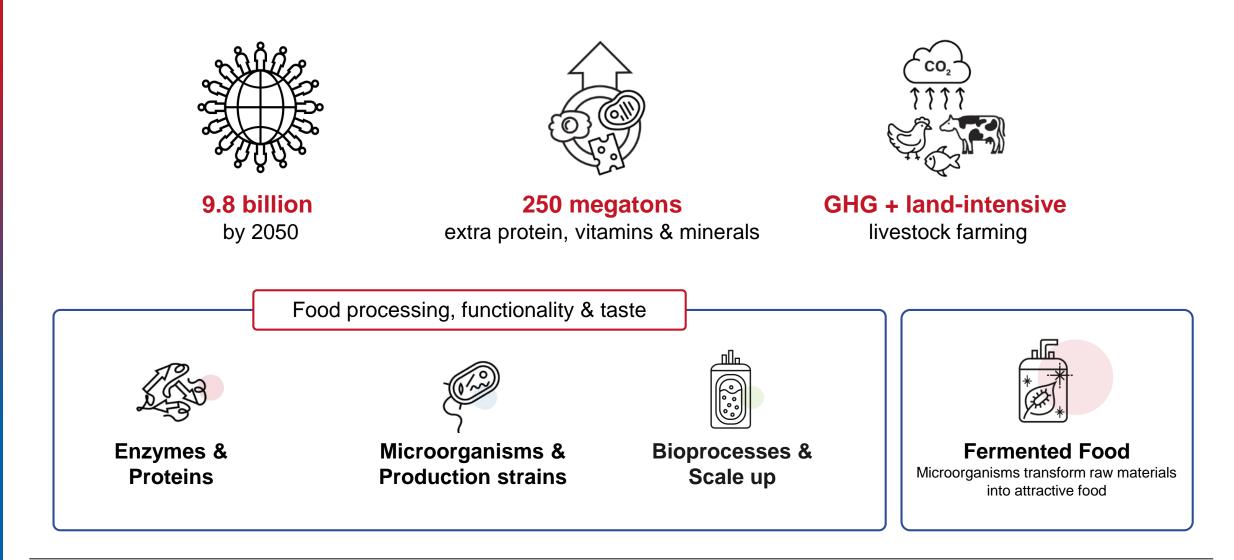
> 30% of Global GHG Emissions

*IPCC special report on climate change and land use (Bericht des Weltklimarats)

are caused by agriculture & food production

The Food of the Future Will be Produced Differently

Biotechnology enables more sustainable industrial production

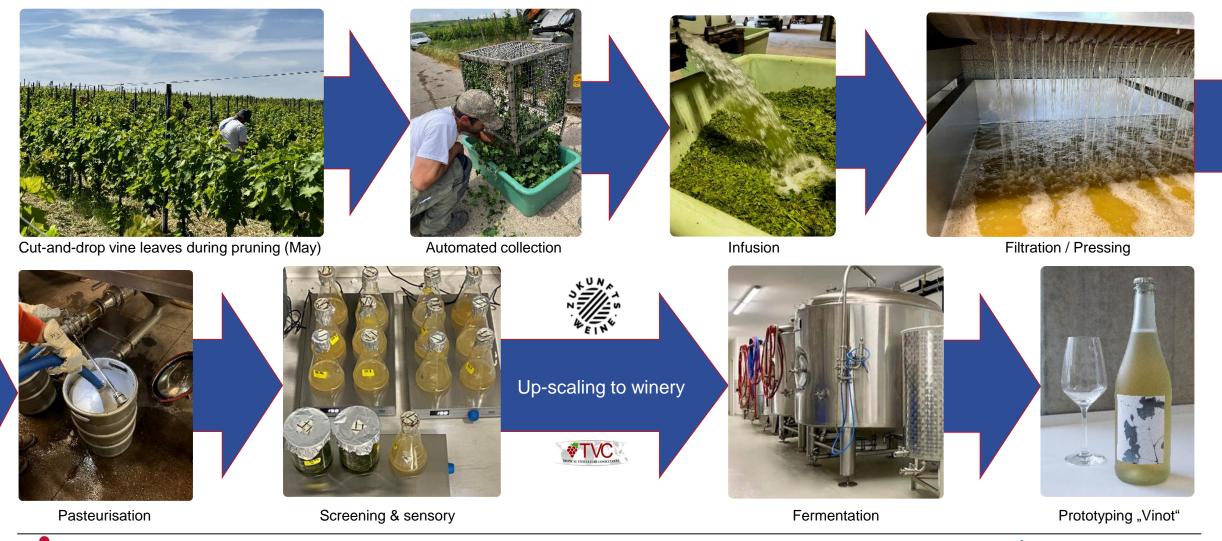




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Fermentation Enables the Implementation of Zero-Waste Strategies

Example: use of otherwise discarded vine leaves to produce a high-quality, non-alcoholic social drink



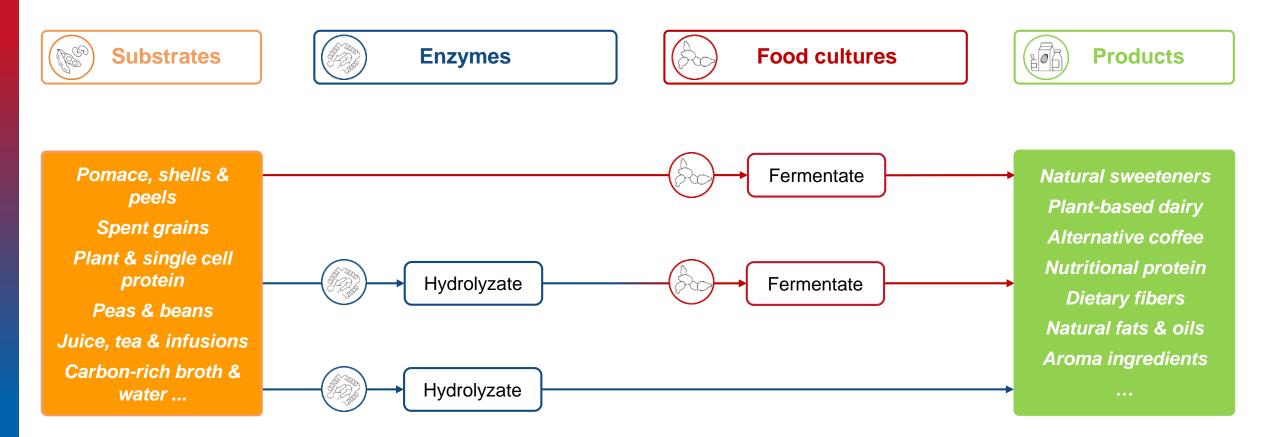
BRAINBiotech

The Power of Fermentation:

natural solutions for great tasting, healthy and sustainable foods

BRAINBiocatalysts Offers a Comprehensive Toolbox for Fermented Food

whether tradition or innovation: longer shelf life, better flavour and functionality through fermentation



tailored solutions for fermented food based on enzymes and microorganisms



BRAIN Biotech Supports its Customers in the Development of New Food Products

unique resources and expertise from science to application



microbial & enzyme screening Foodlab prototyping FSSC22000 certified environment tasting & evaluation in-house and at customer's site

established pipeline for food innovation based on enzymes and microorganisms



BRAIN Biotech has Enabled the Development of Several Fermented Food Products

fermented foods and beverages offer a solution to different rising market trends



Clean Label

Natural sweetener without unpleasant aftertaste and with excellent mouthfeel from fermented stevia tea



New Products

Non-alcoholic sparkling wine enabled by a balanced mixture of special yeast and fermentation process



Zero-Waste

High-value beverage by fermentation of sidestream vine leaves from seasonal vine pruning



BRAIN Biotech Has Created a Unique Collection of Food Microorganisms

over 750 microbial strains for application in food, feed & beyond

- Come from artisanal fermented foods
- QPS/IDF-listed or have other documented history of safe use in food sector
- Rational selection and targeted screening for desired applications









Fermented cheese



Olives, fruit & vegetables

Fermented asian foods

Kefir & dairy

Vine & tea plant leaves

Fermented fish

Sourdough

Artisanal sausages



> 80 Koji & edible mushrooms



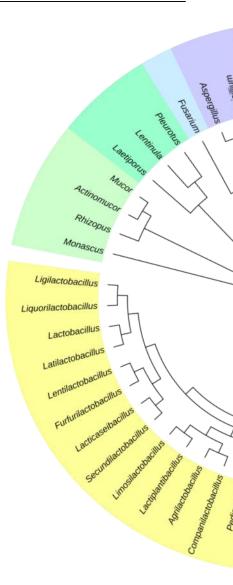
> 220 Yeasts

> 18 Acetic Acid Bacteria

Flower nectar

> 125 Lactic Acid Bacteria

> 315 Bacilli

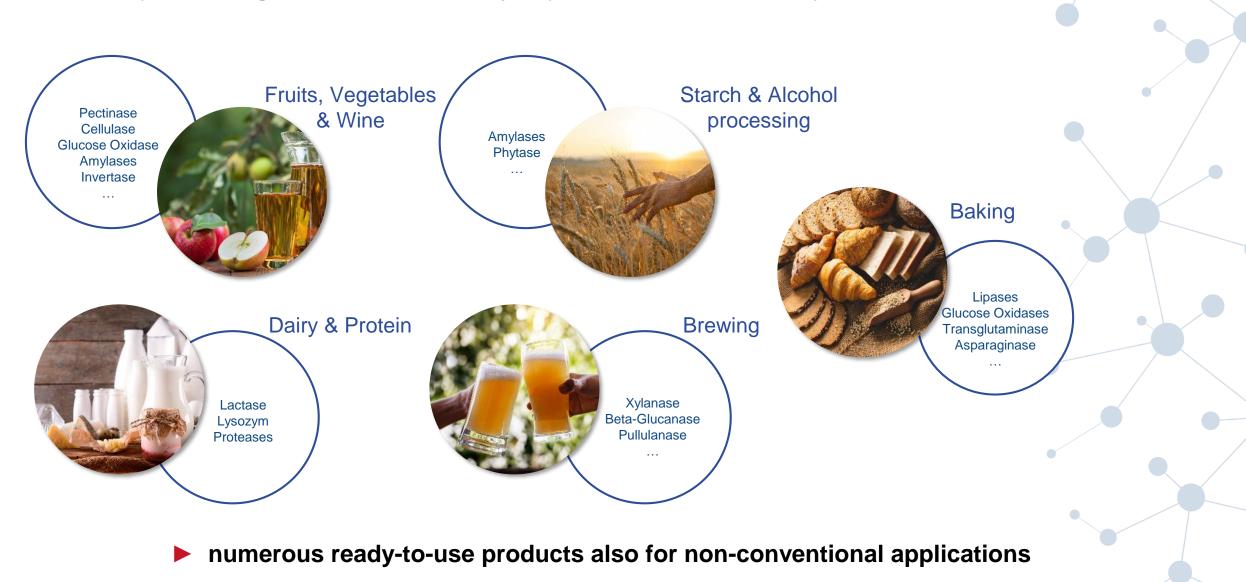


Extensive options & direct application for fermented food products



Enzymes Can Supplement Microorganisms in Many Applications

faster development through access to finished enzyme products suitable for the requested need



Group

Fermented Food Offers Countless Exciting Possibilities

from zero-waste & upcycling to new foods & clean label ingredients



Specific modification of substrate properties using **enzymes**:

▶ we offer ready-to-use products or new enzyme solutions using our MetXtraTM platform

Sood products with complex characteristics using active, **food-grade microorganisms**:

> we offer a valuable collection of diverse microorganisms to create your unique fermented food product

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Tailor-made solutions for your application through the combination of optimal enzymes & microorganisms

complete R&D pipeline available - from enzyme & microbial discovery to fermented food prototypes



Thank you very much for your interest.



BRAIN Biotech AG

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