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Nationality: Italy

Date of birth: 09/10/1996

Place of birth: Cittadella, Padova

Education:

- PhD student in Animal and Food Science (2021-)
- Master student in Food Science and Technology (2018-2021)
- Bachelor student in Food Science and Technology (2015-2018)

Research areas:

- Food Microbiology
- Lactic Acid Bacteria
- Fermentation
- Functional Food

Brief description of Ph.D project:

Nowadays, food is increasingly considered a potential source of healthy and natural substances due to the presence of different classes of molecules and active compounds, that can be naturally present, introduced during manufacturing or produced by microorganism. Fermentation is indeed one of the most ancient natural food processes: it represents a biotechnological approach to improve safety and health-promoting food properties. In particular, controlled fermentation processes, i.e. those obtained by the addition of suitable strains populations of the

probiotic microorganisms, has the potential to enhance nutritional and functional properties due to transformation of molecules, boosting the bioavailability of substrates and synthesis of novel bioactive end-products, due to their broad enzyme portfolio. These improvements of food components bioaccessibility and bioavailability, associated with prebiotic and/or probiotic potential supply, result in a desirable increase of health-related properties. The research aims to assess the *in vitro* effect of food by-products fermentation, which can lead to improvement of bioactive compounds, therefore enhancing biological value to obtain functional foods. This kind of approach, aiming at the valorizations of byproducts, will also improve sustainability and circular economy.

Supervisor:

Professor Alessio Giacomini

Publications:

Google scholar link:

https://scholar.google.com/citations?user=_MPLcJMAAAAJ&hl=it

ResearchGate link:

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